

**Revitalizing Auto Communities
Environmental Response (RACER) Trust**

**Resource Conservation and
Recovery Act Facility Investigation
(RFI)**

**Phase 2 Activities Summary
Report**

Plants 2, 3 & 6, Industrial Land
Lansing, Michigan

April 2013



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Recovery Act Facility
Investigation (RFI), Phase 2
Activities Summary Report**

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Lansing, Michigan

Prepared for:
Revitalizing Auto Communities
Environmental Response (RACER) Trust

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Acronyms and Abbreviations

°C	degrees Celsius
°F	degrees Fahrenheit
%Pv	percent pore volume
APC	Adams Plating Company
AOI	Area of Interest
API	American Petroleum Institute
ARCADIS	ARCADIS G&M of Michigan, LLC
ASTM	ASTM International
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CCR	Current Conditions Report
COC	constituent of concern
cm/s	centimeters per second
CMS	Corrective Measures Study
COC	constituent of concern
CVOC	chlorinated volatile organic compounds
DC	Direct Contact Criteria
DCE	dichloroethene
DNAPL	dense non-aqueous phase liquid
DW Criteria	Drinking Water Criteria
DWP Criteria	Drinking Water Protection
EPCSM	exposure pathway conceptual site model
FPM-C	Free Product Mobility – Centrifuge Method
FPM-WD	Free Product Mobility – Water Drive Method
ft amsl	feet above mean sea level
ft/day	feet per day
ft ² /day	square feet per day

GC Criteria	Groundwater Contact Criteria
GCP Criteria	Groundwater Contact Protection Criteria
GM	General Motors
GSI Criteria	Groundwater Surface Water Interface Criteria
GSIP Criteria	Groundwater Surface Water Interface Protection Criteria
GVIIC	Groundwater Volatilization to Indoor Air Inhalation Criteria
GW _{VI-nr}	Nonresidential Groundwater Concentrations for Vapor Intrusion
GW _{VI-res}	Residential draft Groundwater Concentrations for Vapor Intrusion
HPT	Hydraulic Profiling Tool
ITRC	Interstate Technology and Regulatory Council
K	conductivity
LIF	laser-induced fluorescence
LNAPL	light non-aqueous phase liquid
MDEQ	Michigan Department of Environmental Quality
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
µg/L	micrograms per liter
mg/L	milligrams per liter
MVS	Mining Visualization System
New GM	General Motors LLC
Old GM	General Motors Corporation
PCB	polychlorinated biphenyl
PSIC	Particulate Soil Inhalation Criteria
RACER	Revitalizing Auto Communities Environmental Response
RBSL	Risk-Based Screening Levels
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
ROW	right-of-way

Site	RACER Trust Lansing Plants 2, 3, and 6
SVIIC	Soil Volatilization to Indoor Air Inhalation Criteria
SVOCs	semivolatile organic compounds
TCA	trichloroethane
TCE	trichloroethylene
USEPA	U.S. Environmental Protection Agency
UST	underground storage tank
VAP	Vertical Aquifer Profile Sample
VOC	volatile organic compound
VSIC	Volatile Soil Inhalation Criteria

Executive Summary

ARCADIS G&M of Michigan, LLC (ARCADIS) has completed a Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) for the Revitalizing Auto Communities Environmental Response (RACER) Trust at their industrial properties (Plants 2, 3, and 6) located in Lansing, Michigan (Site). The RFI was completed in two phases. Phase 1 of the RFI targeted areas of interest (AOIs) identified at the Site based on historical land use and previous investigation results. The AOIs targeted by Phase 1 were agreed upon by RACER and the Michigan Department of Environmental Quality (MDEQ) as the most likely areas of the Site to be impacted by former site activities. Based on the results of Phase 1, ARCADIS completed Phase 2 of the RFI to characterize and delineate soil and groundwater impacts identified during Phase 1.

During the RFI Phase 2, as a general rule, if a constituent of concern (COC) was detected at an AOI during Phase 1, additional borings were completed to evaluate the magnitude and extent of the impacts. This approach was generally applied even if the COC was detected below generic Michigan Risk Based Screening Levels (RBSLs) established by Part 201 of the Michigan Natural Resources and Environmental Protection Act (Act 451, 1994, as amended).

Based on overall RFI approach and strategy, extensive sampling was completed to characterize and delineate the Site. Together, the RFI Phase 1 and 2 activities included the following:

- 437 shallow soil borings (generally <30 ft bgs)
- 36 Geoprobe® Hydraulic Profiling Tool/vertical aquifer profile (VAP) borings (to bedrock or refusal, Plants 2 and 6)
- 10 VAP borings (to bedrock or refusal, Plant 3)
- 81 laser-induced fluorescence (LIF) borings to delineate light non-aqueous phase liquid (LNAPL; Plant 2: 58, Plant 3: 23)
- 221 groundwater VAP samples
- 1,542 soil samples (Phase 1: 285, Phase 2: 1,257)
- 4 soil gas samples
- Installation of 54 monitoring wells (Phase 1 and 2, includes long-term monitoring wells and LNAPL monitoring wells)

- Collection of groundwater samples from all available site monitoring wells during two annual sampling events (2011 and 2012). The 2012 sampling event included 90 monitoring wells.
- Completion of a comprehensive light non-aqueous phase liquid (LNAPL) mobility assessment at Plants 2 and 3. The mobility assessment included field LNAPL transmissivity testing, a comparison of laboratory-determined LNAPL field and residual saturations, LNAPL pore velocity potential calculations, and LNAPL pore-entry pressure calculations.
- Completion of storm sewer sampling at site outfalls during two separate events to assess whether COCs could be entering the sewer via groundwater infiltration at concentrations that could exceed Groundwater Surface Water Interface (GSI) Criteria at the Grand River.
- Sampling, cleanout and monitoring of the Plant 6 stormceptor identified with LNAPL during the storm sewer sampling activities.

The overall goal of the RFI is to provide the basis for the preparation of a RCRA Corrective Measures Study (CMS) Report.

General Hydrogeologic Setting

The topography of the Site is flat with gently rolling hills around the perimeter of the Plants. The Grand River is incised into the regional topography and wraps around the Site to the south, east, and north. Surface elevations for the Site range from approximately 855 to 875 feet above mean sea level (ft amsl). The elevation of the Grand River is approximately 830 ft amsl and known to lose water to bedrock in the Lansing area.

The overburden at the Site is divided into four general stratigraphic units: 1) shallow fill, 2) interbedded zone; typically soft clay and isolated lenses of silt and sand containing perched water, 3) glacial till; a dense, mostly dry sand/gravel/clay mix that creates a vertical barrier to groundwater flow and separates the perched water from the bedrock aquifer, and 4) deep overburden; typically unsaturated below the till; consists of a mix of sediments located above bedrock. The deep overburden becomes saturated where encountered deeper than 65 to 70 feet below ground surface (ft bgs). Saturated deep overburden has only been observed at Plant 3.

The glacial overburden is underlain by bedrock consisting of the Grand River Group and Saginaw Formations. Together the formations, consisting largely of sandstone

interbedded with shale, form a prolific bedrock aquifer that is the primary source of drinking water for the City of Lansing and Lansing Township. All three plants are located within wellhead protection areas for either Lansing Township (Plants 2 and 3) or the City of Lansing (Plant 6). The bedrock beneath Plants 2 and 6 is relatively flat lying and is encountered at depths ranging from 55 to 65 ft bgs. At Plant 3 the bedrock surface slopes to the north-northwest into an apparent bedrock valley. The bedrock topography, and the saturated overburden within the valley, appear to exhibit some measure of control on regional groundwater flow, as do the City and Township water supply wells installed in the bedrock adjacent to the Site.

In general, there are three water bearing zones at the Site: the perched water, typically occurring within the fill, the interbedded zone, and occasionally within the glacial till, between 5 to 30 ft bgs; the deep overburden aquifer with a water table at 65 to 70 ft bgs (at Plant 3 only); and bedrock, which is encountered at depths ranging from 55 to 110 ft bgs beneath the Site.

Perched Water Zone

Due to the predominance of clay rich sediments, the interbedded zone has an overall low permeability and is characterized by discontinuous sand zones within layers of silt and clay. The lower hydraulic conductivity (K) clays and silts result in high horizontal gradients between sand lenses, which confirm the discontinuous nature of the conductive sand zones. Because the variability of K in the perched water zone is orders of magnitude greater than the groundwater gradient, the flow and contaminant transport at the Site is controlled by the hydrostratigraphy of the aquifer. The complex gradients at the Site reflect this condition, and traditional groundwater elevation contour maps are of limited use within this zone to determine groundwater flow direction and transport.

A high-resolution sampling approach was used at the Site to gather sufficient groundwater data within the perched zone to characterize and delineate groundwater impacts by contaminant distribution. Based on the spatial distribution of COCs in groundwater at the Site, groundwater flow direction within the perched zones appears easterly at Plants 2 and 6. At Plant 3, perched water occurs in isolated pockets primarily within the shallow fill on top of the glacial till. Slug testing of wells screened within permeable units of the perched zone indicate a K of 0.07 to 40 feet per day (ft/day); hydraulic conductivity estimates for the finer grained silts and clays are several orders of magnitude less. Based on the range of hydraulic conductivity values, hydraulic gradients, and porosity associated with the sand-silt-clay soils, it is expected

that groundwater flow velocities range several orders of magnitude in the heterogeneous perched zone. The length of the 1,4-dioxane plume from Plant 2 to Plant 6 suggests that there are continuous pathways for lateral migration; however, the average groundwater flow velocity within the interbedded zone is likely between 0.1 to 0.2 ft/day or 40 to 80 feet per year (ft/yr), based on industrial usage of 1,4-dioxane as a stabilizer for 1,1,1-trichloroethane (1,1,1-TCA), which started in the late 1950s, and leading to an assumed plume age of 25 to 50 years. Based on the abundance of lower conductivity soils in the perched zone, the transport velocity likely slowed since the release as 1,4-dioxane mass is stored in the finer grained matrix due to diffusion. Additional groundwater trend monitoring is warranted to verify plume stability, however.

Hydraulic communication between the perched zone and bedrock aquifer is generally limited. Evidence to support this includes:

- 1) A zone of dry deep overburden beneath the glacial till underlying Plants 2, 3, and 6 that, where present, form a low-permeability barrier to vertical flow.
- 2) A separation of the perched zone and regional bedrock aquifer by 30 (Plants 2 and 6) to 60 feet (Plant 3) of glacial till and vadose zone. The vertical K of the glacial till has been tested at 10^{-5} ft/day at Plant 6.
- 3) A general lack of site-related groundwater impacts in the bedrock aquifer beneath the most heavily impacted areas of the Site, including the LNAPL impacts located within the perched zones at Plants 2 and 3.

The communication between the perched zone and deep overburden/bedrock aquifer at Plant 3 is also limited; however, metals have been detected beneath the former plating area (Areas 14, 17 and 18) suggesting some leakage does occur through the glacial till in this part of the Plant. In addition, impacts occur to the deep overburden aquifer at Plant 3 where the glacial till has been removed, such as the 1,4-dioxane impacts beneath the “coliseum” in the southwestern portion of Plant 3.

Deep Overburden Aquifer

At Plant 3, groundwater is encountered within the overburden overlying the bedrock. The lithology of the deep overburden aquifer consists mainly of interbedded fine sand and silt. The groundwater elevation of the overburden aquifer is generally 1 to 2 feet higher than in corresponding bedrock wells and horizontal gradients generally mimic the bedrock topography with apparent groundwater flow to the north-northeast. Hydraulic testing of the deep overburden aquifer indicates an average K of 0.3 ft/day. Based on the range of measured gradients in the central part of Plant 3, groundwater

flow velocity is on the order of 0.04 ft/day or 14 ft/yr. Detections of metals above RBSLs near the Plant 3 former plating area and 1,4-dioxane impacts in the southwestern part of Plant 3 suggest the deep overburden may receive some recharge from the perched zone where the till is more permeable or absent.

Bedrock Aquifer

The Grand River Group and Saginaw Formations consist largely of sandstone interbedded with shale. Groundwater flow within bedrock is largely dependent on the presence of bedrock fractures and the groundwater elevation within a bedrock well will depend on screen depth, fracture distribution and the proximity to municipal pumping wells. The bedrock groundwater elevation contours developed for the Site suggest radial groundwater flow at Plant 3 and a westerly flow at Plants 2 and 6. The bulk K measured at bedrock wells averages approximately 80 ft/day in highly fractured wells to 0.6 ft/day in wells where minimal fracturing was encountered.

Findings and Conclusions

The majority of the AOIs on-Site have been delineated and the goals of the RFI have largely been met. Figure ES-1 summarizes the lateral extents of soil, groundwater, and LNAPL impacts. The areas where additional characterization is required to address data needs are highlighted in specific figures referenced throughout the report. The following conventions are used to highlight affected media and provide quick reference to findings that are discussed in this section:

- Soil impacts are shaded with orange where volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) are the drivers; light blue shading shows the areas where metals impacts occur.
- Groundwater impacts are shaded with pink for VOCs and SVOCs; dark blue shaded areas are affected by metals;
- LNAPL impacts are shown with orange hatching.

The areas where these impacts could lead to potential exposure or where restrictions might be required are also highlighted.

- The composite areas where groundwater exceeds drinking water criteria is included within the pink and dark blue areas;

- Relevant exposure pathways are highlighted using colored boxes to show a conservative estimate of the areas that are affected. The areas are color coded by potential exposure pathway.

Based on the hydrogeologic data and defined soil and groundwater impacts at the Site, source zones and groundwater impacts are primarily isolated within the shallow perched water. However, there are six bedrock wells with metals above Part 201 Drinking Water (DW) Criteria, including arsenic at three locations on Plants 2 and 3 just above the DW Criteria, and lead at a bedrock well on Plant 6 just above the DW Criteria. In addition, data collected in 2004 indicate metals at two historical bedrock well locations exceeded RBSLs.

Plant 2

The following are considered the primary areas of Plant 2 that will require further consideration for remediation in the CMS:

- **LNAPL (Area 5-2):** LNAPL is present within the fill and interbedded zone in the central portion of Plant 2. The LNAPL consists of cutting oil that contains elevated concentrations of chlorinated volatile organic compounds (CVOCs) and polychlorinated biphenyls (PCBs) in some areas, as well as certain VOCs and SVOCs. The lateral and vertical extents of the LNAPL plume and associated soil and groundwater impacts are defined; mobility and recoverability testing indicate the LNAPL plume is not migrating, with only a limited potential for recoverability based on ASTM International (ASTM; Method E2856) and Interstate Technology and Regulatory Council (ITRC) methods (ITRC 2009; State of Michigan 2012), which guide MDEQ policies and procedures.
- **1,4-Dioxane in Perched Zone:** Associated with the western and northern portion of the LNAPL area, a perched water plume, consisting primarily of 1,4-dioxane, extends from west to east across Plant 2 onto Plant 6 within the perched water zone. The highest concentrations of 1,4-dioxane, VOCs, and SVOCs are generally relegated to the area immediately surrounding the LNAPL plume. The lateral and vertical extents of the plume are defined on site at Plant 2 and Plant 6 relative to the proposed Part 201 Residential Drinking Water (DW) Criteria of 8.5 micrograms per liter (µg/L). 1,4-dioxane has not been detected in the underlying bedrock aquifer.

- **Vapor Criteria Exceedances:** In addition to Area 5-2 LNAPL area, there are two areas at Plant 2 that have soil or groundwater in excess of inhalation criteria including Area 2 for VOCs (Nonresidential Groundwater Concentrations for Vapor Intrusion [GWVI-nr] and Soil Volatilization to Indoor Air Inhalation Criteria [SVIIC]) and Area 5-3 for 1,1-dichloroethene (SVIIC) in soil at one sample location.
- **Particulate Soil Inhalation Criteria Exceedances:** Manganese exceeds Particulate Soil Inhalation Criteria (PSIC) at one sample location in Area 2, one sample location in Area 5-2, and one sample location in Area 5-3.
- **Direct Contact Criteria Exceedances –** In addition to Area 5-2 LNAPL area, there are four areas at Plant 2 that have soil impacts in excess of DC criteria including Area 2 for arsenic at one sample location, Area 5-1 for SVOCs, Area 5-3 for benzo(a)pyrene at one sample location, and Area 5-5 for benzo(a)pyrene at one location.

Plant 3

The following are considered the primary areas of Plant 3 that will require further consideration of remediation in the CMS:

- **LNAPL (Area 17):** LNAPL is present within the shallow fill material in the north central portion of Plant 3 associated with a former underground storage tank. The LNAPL consists of gasoline with associated soil and groundwater impacts consisting primarily of benzene, toluene, ethylbenzene, and xylenes. The lateral and vertical extents of the LNAPL and the associated soil and groundwater impacts (within the perched water zone) are defined. Mobility and recoverability testing indicate the LNAPL plume is stable, with only a limited potential for recoverability.
- **Hexavalent Chromium (Area 14):** Hexavalent chromium in soil and groundwater are present in the former electroplating area in the north central portion of Plant 3 that exceeds RBSLs. Based on extensive sampling, the lateral and vertical extent of hexavalent chromium is localized within the perched zone and other metals that have historically exceeded criteria in this area, including nickel and copper in soil and groundwater are defined. Historical detections of arsenic in soil above RBSLs are not currently defined at the property boundary. Deep overburden monitoring wells near the former plating area have also indicated

arsenic, total chromium, nickel and lead at concentrations just above the DW Criteria.

- Vinyl Chloride in Bedrock Groundwater (northwestern Plant 3): Vinyl chloride has been detected above the DW Criteria in bedrock at two locations on the northern portion of Plant 3. Based on the general lack of CVOC source at Plant 3 and the known regional vinyl chloride impacts to bedrock, the vinyl chloride identified at Plant 3 is attributed to off-site source(s). While current bedrock potentiometric data suggest groundwater flow to the northwest, historical operation of Lansing municipal wells along the bedrock valley would have strongly influenced flow conditions, likely reinforcing flow from the northeast.
- Vapor Inhalation Criteria Exceedances: In addition to the Area 17 LNAPL area, there are two areas with soil in excess of SVIIC at Plant 3 including Area 11 for 1,1-dichloroethene (1,1-DCE) at one sample location, and Area 18 for 1,2-Dibromo-3-chloropropane at one sample location.
- Particulate Soil Inhalation Criteria Exceedances: Manganese exceeds PSIC at one sample location in Area 20 and nickel exceeds the PSIC at historical boring locations in Area 14.
- Direct Contact Criteria Exceedances: There are four areas at Plant 3 that have soil impacts in excess of direct contact criteria including: Area 16 for benzo(a)pyrene and lead (one sample location each), Area 18 for benzo(a)pyrene at one sample location, Area 19 for arsenic, and Area 21 for arsenic at one location.

Plant 6

The following are considered the primary areas of Plant 6 that will require further consideration of remediation in the CMS:

- 1,4-Dioxane Plume: Associated with the LNAPL at Plant 2 (Area 5-2), a groundwater plume consisting primarily of 1,4-dioxane, extends west to east across Plant 6 within the perched water in the shallow overburden. The extent of the plume is defined and does not extend off site above the proposed DW Criteria of 8.5 µg/L. 1,4-Dioxane has not been detected in bedrock wells at Plant 6.

- COCs at Plant 6 Property boundary (Area 5-7): Vinyl chloride has been encountered slightly above the DW Criteria in the perched zone water and below criteria in bedrock groundwater near the northeast Plant 6 boundary. Vinyl chloride has been delineated in overburden by off-site wells. In bedrock, lead has been detected in the bedrock well, nominally exceeding the DW Criteria of 0.004 milligrams per liter (mg/L), but less than the U.S. Environmental Protection Agency standard of 0.015 mg/L, and bis(2-ethylhexyl)phthalate has been detected at 7 ug/L, slightly above DW Criteria (6 ug/L). Bis(2-ethylhexyl)phthalate had not previously been detected in bedrock at this well location. Impacts to the bedrock well may be related to well construction as issues have been identified during sampling that suggest a compromised well casing. Lead has been detected in perched water southwest of the bedrock well location.
- Vapor Inhalation Criteria Exceedances: There are three areas with soil in excess of SVIIC at Plant 6 including: Area 5-7 for trichloroethene at one sample location, Area 7 for xylenes at one sample location and, and Area 9 for VOCs at one location. In addition, Area 9 exceeds Flammability and Explosivity Criteria for xylenes in groundwater at one sample location.
- Particulate Soil Inhalation Criteria Exceedance – Manganese exceeds PSIC at one sample location in Area 5-8.
- Direct Contact Criteria Exceedances – Lead exceeds the DC Criteria in Area 5-6 (e.g., “lead in soil” area).
- Groundwater-Surface Water Interface (GSI) Criteria Exceedances – based on storm sewer sampling completed at Plant 6, COCs (selenium and xylenes) are present above GSI Criteria in the sewer and exit the southern portion of Plant 6. However, the magnitude of the concentrations is generally close to the GSI criteria (selenium 0.006 mg/L [GSI - 0.005 mg/L], xylenes at 64 µg/L [GSI - 41 µg/L]); based on the length of the sewer between the site and the Grand River (4500 feet), it is expected that dilution from groundwater infiltration will reduce the concentrations to below the standard before discharge to the Grand River.

A detailed discussion of each AOI and potential corrective measures for each area will be provided as part of the CMS scheduled for completion in June 2013. Based on the nature of impacts observed at the Site and the expected future Site use (nonresidential), Restrictive Covenants will be proposed for the Site to the extent practicable to eliminate unacceptable exposures to soil and groundwater impacts. Land

use will be restricted to nonresidential use, institutional controls (e.g. no use of groundwater) will be implemented, and engineering controls (i.e., vapor barriers on future buildings) will be required, as needed.

Remaining Data Needs

Based on the results of the RFI, the following areas of the Site will require additional investigation to adequately characterize or delineate COCs:

- Northern Plant 3 (Areas 14, 17 and 18): Arsenic has been detected at the east and west Plant 3 property boundaries (historical sample locations) above the drinking water protection (DWP) Criteria. Additional work will be completed by RACER to define the extent of arsenic in soil at the Plant 3 property boundary.
- Plant 3, Area 16: The extent of arsenic in groundwater southwest of Area 16 is not defined to generic RBSLs between Area 16 and the southeastern Plant 3 property boundary. RACER will complete additional work in this area to define arsenic in groundwater.
- Plant 3, Deep Overburden (Area 11): 1,4-dioxane has been detected at deep overburden above DW Criteria in Area 11. RACER will complete additional work in March 2013 to characterize and define the extent of 1,4-dioxane impacts in deep overburden.
- Plant 3, Deep Overburden: Metals have been detected in the deep overburden aquifer at Plant 3 (MW-19, MW-02-04, MW-23 and MW-04-04). Based on the occurrence of metals (arsenic, lead, and nickel) in near surface soils near the former plating area (Area 14), metals in deep overburden may be related to former site operations. Additional sampling will be completed at these locations to verify the elevated metals with an emphasis on low turbidity sample collection.
- Plant 6, Area 7: The extent of metals including lead, arsenic and vanadium south of Area 7 are not defined in groundwater to generic RBSLs. RACER will propose to complete additional sampling off site to define metals exceedances in groundwater.
- Plant 6, Area 5-8: Vanadium exceeds DW Criteria at P6-SB-35 located 200 feet from the eastern property boundary. Additional sampling at P6-SB-35 will confirm whether work is required to delineate vanadium at the property boundary.

- Plant 6, Bedrock Metals: Metals above DW Criteria have been detected at Plant 6 in existing bedrock wells MW-04-06 (lead) and historical MW-04-04(4) (arsenic, beryllium, total chromium, cobalt, lead, manganese, nickel, and vanadium). Impacts at these wells may be related to well construction and RACER will propose to abandon and/or replace these wells in order to verify the metals results in bedrock.

Continued monitoring of groundwater is warranted to evaluate 1,4-dioxane plume stability and verify the occurrence of metals in deep overburden and bedrock wells. Recent sampling for metals in groundwater has shown sensitivity to turbidity, which has resulted in several wells showing below standard concentrations when prior results were above criteria. Most of the remaining exceedances related to metals are slightly over the standards, suggesting that additional sampling is warranted to verify if metals are a concern. Continued monitoring will be performed concurrent with the RFI review and development of the CMS.

In addition to the above items, the potential for preferred migration of impacts associated with storm sewers and utility corridors are currently being evaluated:

- Storm Sewer Monitoring – Although storm sewer sampling initially indicated impacts to the storm sewer are minimal, monitoring will continue through the implementation of the CMS to verify this condition.
- Plant 6 Stormceptor ESC-2 – Following the February 2013 cleanout of the stormceptor, monitoring of LNAPL within the stormceptor and upgradient storm structures have not shown presence of LNAPL. Monitoring will continue through the implementation of the CMS to verify this condition.
- Additional utility corridor sampling – Additional sampling will be completed in March 2013 adjacent to large utility corridors interior to the Site to evaluate if groundwater infiltration is causing preferred migration of site-related COCs in utility corridors. Monitoring will continue through the implementation of the CMS to verify this condition.

Data needs and evaluations at Plants 3 and 6 will be addressed during follow-up work completed in spring 2013 in parallel with the MDEQ's review of the RFI. Additional investigation activities and results of the ongoing utility evaluation will be summarized as part of an addendum to this RFI.

1. Introduction

This Resource Conservation Recovery Act (RCRA) Facility Investigation (RFI) Phase 2 Activities Summary Report has been prepared on behalf of the Revitalizing Auto Communities Environmental Response (RACER) Trust and summarizes the RFI activities completed between May 2012 and January 2013 at the Lansing Plants 2, 3, and 6 located in Lansing, Michigan (Site). The location of the Site is shown on Figure 1.

On June 1, 2009, General Motors Corporation (Old GM) filed for Chapter 11 protection in Federal Court under the Bankruptcy Code. On July 10, 2009, what would subsequently become General Motors LLC (New GM) purchased certain Old GM assets pursuant to Section 363 of the Bankruptcy Code. Motors Liquidation Company was formed to manage the assets of the 89 properties not sold to New GM in its capacity as debtor-in-possession in the bankruptcy case. Effective March 31, 2011, the RACER Trust was created through a Bankruptcy Settlement Agreement and the environmental remediation of the Lansing properties was transferred from Motors Liquidation Company to RACER Trust.

In 2011, ARCADIS completed Phase 1 of the RFI at Plants 2, 3, and 6. The RFI Phase 1 activities were conducted in accordance with the approved RFI Work Plan, Quality Assurance Project Plan and Field Sampling Plan prepared by ARCADIS G&M of Michigan, LLC (ARCADIS; 2011) and submitted to the Michigan Department of Environmental Quality (MDEQ) incorporating MDEQ comments on August 26, 2011. The RFI Phase 1 targeted Areas of Interest (AOIs) identified at the Site based upon historical use and previous investigation results. The AOIs targeted by the RFI Phase 1 were agreed upon by RACER and the MDEQ as the most likely areas with soil and groundwater impacts related to historical Site use. The results of the RFI Phase 1, documented in the *RFI Phase 1 Activities Summary Report* (ARCADIS 2012a), identified the need for additional investigation.

Based on the results of the RFI Phase 1, ARCADIS prepared a work plan outlining Phase 2 of the RFI entitled *RFI Work Plan, Phase 2*, (ARCADIS 2012a). The RFI work Plan, Phase 2 was subsequently approved by MDEQ on May 7, 2012 via email. The goal of the RFI Phase 2 activities was to complete the characterization and delineation at AOIs identified as requiring further evaluation during the Phase 1 investigation. The RFI Phase 2 activities were completed in stages. Following each stage of the investigation a "milestone meeting" was held with MDEQ to discuss the results of the RFI and solicit feedback on additional data needs. Following each milestone meeting,

a memorandum outlining the specific scope for the next stage was submitted to the MDEQ for approval. These submittals included the *RFI Phase 2, Characterization Stage Scope of Work* (ARCADIS 2012b), and the *RFI Phase 2, Delineation Stage Scope of Work* (ARCADIS 2012c).

The overall purpose of this report is to provide a basis for the preparation of a RCRA Corrective Measures Study (CMS) Report.

1.1 Site Location and Description

The Site (Plants 2, 3, and 6) is located in western Lansing and occupies a total area of approximately 250 acres. The locations of Plants 2, 3, and 6 relative to the greater Lansing area are provided on Figure 1. The construction of the three plants was completed between the early 1900s (Plant 2) and the 1930s (Plant 3), and operations were focused on various aspects of automobile assembly and manufacturing. Plants 2 and 3 are located in Lansing Township and Plant 6 is located within the City of Lansing. The *Current Conditions Report* prepared by ARCADIS (2008) provides a detailed summary of the Site history and operations.

Decommissioning of the plants began in 2007. As of the date of this report, the Site buildings have been demolished and all three Plants are secured with fencing and locked gates. Concrete slabs and asphalt parking lots remain in place across much of Plants 2 and 3. Ongoing demolition activities extending through 2012 have removed much of the concrete slabs at Plant 6 and the crushed concrete has been used as fill material across all three plants.

1.2 Previous Investigation Activities

The RFI Phase 2 activities are based on the results of the *Current Conditions Report* (CCR; ARCADIS 2008) and the *RFI Phase 1 Summary Report* (ARCADIS 2012d).

1.2.1 Current Conditions Report

The purpose of the CCR was to describe the current conditions and historical waste management practices at the former GM Facilities, Plants 2, 3, and 6, located in Lansing, Michigan. The report defined specific AOIs based on historical site use and determined which AOIs merited further investigation based on available data.

Areas identified during prior investigations using terms such as solid waste management units and areas of concern identified by agencies, as well as additional areas identified by GM, were designated as AOIs.

References include:

- *Lansing Plants 2 and 3 U.S. Environmental Protection Agency Preliminary Assessment/Visual Site Inspection Report*; by PRC Environmental Management, Inc. (PRC 1994).
- *Lansing Plant 6 U.S. Environmental Protection Agency Preliminary Assessment/Visual Site Inspection Report*; by PRC Environmental Management, Inc. (PRC 1993).

Additional AOIs were then identified by ARCADIS based on the following:

- Review of Facility historical drawings, in both hardcopy and electronic format, to obtain information on historical operations and hazardous waste and material management.
- Interviews of Facility personnel with knowledge of the past and present operations.
- Facility reconnaissance including walkthroughs to evaluate the presence of AOIs.

The list of AOIs was compared against available reports and data to determine whether corrective actions were completed or if further action was required. The original list of AOIs was presented in the CCR along with a determination of whether additional investigation was merited to identify if a risk, or potential risk, could be present at a particular AOI. Based upon MDEQ's review and comments on the CCR, a revised list of AOIs was submitted for review to the MDEQ in February 2009. The list of AOIs was updated again in August 2010 and March 2011 based on further MDEQ input. The final list of AOIs requiring further action was presented in the approved RFI Phase 1 Work Plan (ARCADIS 2011).

1.2.2 RFI Phase 1 Summary Report

The scope of work approved by the MDEQ as the *RFI Phase 1 Work Plan* (ARCADIS 2011) was designed to evaluate the potential for soil and groundwater impacts at each of the AOIs requiring further action. The RFI Phase 1 activities consisted of 120 soil borings and associated soil and groundwater sampling. Tables summarizing the RFI Phase 1 results are provided as Appendix A. The RFI Phase 1 was used as a basis for the additional investigation activities proposed for the RFI Phase 2. In general, 49 AOIs at the Site were recommended for further evaluation during the Phase 2 activities based on detections of various constituents of concern (COCs). A table listing the COCs for the Site is provided as Table 1.

1.2.3 Goals of the 2012 RFI Phase 2 Investigation

The RFI Phase 2 was designed to characterize and delineate the soil and groundwater impacts identified in the CCR and during RFI Phase 1. As a general rule, if a COC, in particular volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), or polychlorinated biphenyls (PCBs), were detected at an AOI during the RFI Phase 1, additional borings were completed to evaluate the magnitude and extent of the impacts. This approach was generally applied even if the COC was detected below generic Michigan Risk-Based Screening Levels (RBSLs) established by Part 201 of the Michigan Natural Resources and Environmental Protection Act (Act 451, 1994, as amended).

The *RFI Work Plan, Phase 2* (ARCADIS 2012a) outlined an investigation strategy with the following primary objectives and goals:

1. Determine whether the vinyl chloride detected in two on-site bedrock wells at concentrations in excess of the Michigan Part 201 Drinking Water (DW) Criteria was a result of previous Site activities.
2. Investigate the light non-aqueous phase liquid (LNAPL) at Plants 2 and 3, as well as the associated soil and groundwater impacts. At that time, the concentration of PCBs in the Plant 2 LNAPL suggested the possibility that the soil may need to be managed under the Toxic Substances Control Act as a regulated waste. The PCBs are being managed in parallel with this RFI in accordance with U.S. Environmental Protection Agency (USEPA) Region 5 requirements. Concentrations of chlorinated VOCs (CVOCs) in the Plant 2 LNAPL suggested a potential for a dense non-aqueous phase liquid (DNAPL) fraction with the potential

to migrate downward through water-bearing zones. In addition, an area of Plant 3 had been identified with LNAPL in the vicinity of the former gasoline underground storage tanks (USTs) located near the central portion of the Site.

3. Characterize the hexavalent chromium identified at elevated concentrations in soil and perched water near the former plating area at Plant 3.
4. Investigate and map the site-wide groundwater conditions. Initial groundwater sampling had identified impacts to groundwater primarily consisting of VOCs, including 1,4-dioxane, as well as SVOCs and certain metals, but the overall extent of the groundwater plume(s) was not defined.
5. Investigate other areas of the Site with soil and groundwater impacts, either low-level detections or with Part 201 criteria exceedances. As discussed in the *RFI Work Plan, Phase 2* (ARCADIS 2012a), areas with limited data suggesting soil and groundwater impacts less than RBSLs would require additional sampling to confirm if soil or groundwater impacts were potentially present above Part 201 criteria in these areas.
6. Complete the installation of an appropriate monitoring well network for long-term monitoring, based on the characterization of the potential source areas and delineation of the associated soil and groundwater impacts.

To complete these objectives within the required timeframe, ARCADIS proposed a comprehensive, high-resolution sampling approach for the assembly of a detailed conceptual site model (CSM). The high frequency of sampling and comprehensive investigation of each AOI was designed to eliminate, to the extent practical, the need for additional follow-up work.

1.3 Stages of the 2012 RFI Phase 2 Investigation

Due to the size and complexity of the proposed investigation, the RFI Phase 2 activities were completed in three primary stages:

- **Assessment Stage** – May to June 2012. The goal was to evaluate the known or suspected source areas where the RFI Phase 1 activities identified soil or groundwater impacts. Soil and groundwater impacts identified during Phase 1 activities were used as a starting point in target areas to further characterize potential soil and groundwater impacts.

- **Characterization Stage – September 2012.** The goal was to focus the remaining investigation effort on areas identified during the Assessment Stage as potential source areas for COCs.
- **Delineation Stage – November to December 2012.** The data collected during the Assessment and Characterization Stages were used to select locations where additional monitoring wells would be installed for long-term monitoring. In addition, a number of remaining data needs identified either during or subsequent to the Characterization Stage were addressed during the Delineation Stage.

Following each stage of the investigation, milestone meetings were conducted with MDEQ to present new data and solicit feedback. MDEQ's comments and suggestions were incorporated into the investigation as it progressed.

1.4 Investigation areas

To implement the RFI Phase 2 Work Plan in an organized and efficient manner, the Site was divided into investigation areas numbered 1 through 21. Each area corresponds to the location of one or more of the AOIs identified as requiring additional work during the RFI Phase 1 activities. Investigation Area 5, which spans the central portion of Plants 2 and 6, was subdivided into eight smaller areas (Area 5-1, Area 5-2, etc.). A summary of the investigation areas, including associated AOIs, investigation approach, sequence, results, COCs, and risk drivers is provided on Table 2. This table serves as the basis for tracking work completed at the Site, includes a brief summary of the findings for each area, and lists potential exposure pathways. The locations of the investigation areas and corresponding AOIs are shown on Figures 2 (Plants 2 and 6) and Figure 3 (Plant 3).

2. Geologic Setting

The topography of the Site is generally flat with gently rolling hills around the perimeter of the plants. The Grand River is incised into the regional topography and wraps around the Site to the south, east, and north. Surface elevations for the Site range from approximately 855 to 875 feet above mean sea level (ft amsl). The average stage elevation of the Grand River is approximately 830 ft amsl.

2.1 Climate

The City of Lansing has an average temperature is 23.4 degrees Fahrenheit (°F; -4.8 degrees Celsius [°C]) in the winter with an average monthly minimum temperature of 13.5 °F (January; -10.3 °C). In summer, the average temperature is 68.5 °F (20.3 °C) with an average monthly maximum temperature of 82.6 °F (July; 28.1 °C) (www.worldclimate.com). The average yearly precipitation for the City of Lansing is 31.5 inches. Monthly precipitation values are fairly distributed, with the greatest amount of precipitation between April and September. June, August, and September have the highest average precipitation (i.e., between 3.4 and 3.5 inches per month). Snowfall is moderate, averaging 49.20 inches per year. The prevailing wind is from the southwest (Blasland, Bouck & Lee 2005).

2.2 General Site Stratigraphy

In general, overburden deposits across the region consist of glacial deposits associated with ground moraines and outwash plains. Glacial deposits are complex and variable in nature due to the wide range sedimentary conditions that can occur during glacial advance and retreat. Glacial sedimentary conditions typically including sub-glacial deposits such as clay-rich glacial till, outwash deposits such as sand and gravel, river or stream sediments of silt and sand, as well as clays associated with standing water (e.g. lakes, wetlands). The result of this complex sedimentary environment is a thick sequence of “glaciofluvial” sediments at the Site consisting predominantly of clays and silts, with discontinuous layers of sand, silty sand, and occasional gravel.

2.2.1 Overburden

In general, the unconsolidated overburden stratigraphy at Plants 2 and 6 consists of 1 to 10 feet of native sand and/or sandy fill, followed by an interbedded zone of less permeable clay mixes interbedded with more permeable lenses of silt and sand. Between 20 and 30 feet below grade the interbedded zone transitions to a dense, compact, primarily dry glacial till ranging from 10 to 30 feet thick. Beneath the till, a dry interbedded zone of sand, silt and clay is present above bedrock.

At Plant 3, the interbedded zone is generally thin or absent. The overburden beneath Plant 3 typically consists of 1 to 10 feet of sandy fill followed by 10 to 30 feet of dense, dry glacial till. Beneath the till, interbedded layers of dry silt or fine sand are encountered with occasional lenses of sandy clay and gravel extending to bedrock.

Based on the general sequence of sediments encountered at the Site, the stratigraphy of the overburden deposits is divided into four general units, in descending order, as follows:

- Shallow Sand and Fill – Typically encountered between 0 and 10 feet below ground surface (ft bgs). This is a layer of fill material or native sand located above the interbedded or glacial till units. This unit includes localized areas of unconfined perched water.
- Interbedded Zone – Occurs on Plants 2 and 6 and the southern portion of Plant 3, typically between 1 and 25 ft bgs. This unit is composed of interbedded soft clay with lenses of silt and sand. Perched water is often encountered within the more permeable sand lenses.
- Glacial Till – Encountered across all three plants and typically 20 to 30 feet thick consisting of dense, dry silt, sand and gravel mixed with clay. At Plants 2 and 6, this unit is typically encountered between 20 and 30 feet below grade. At Plant 3, this unit can be encountered at less than 10 feet below grade. Where present, the till forms a barrier to vertical migration and generally separates the perched water zones from the deep regional aquifer. At Plants 2 and 6, the interbedded zone and glacial till act together to limit infiltration to the bedrock aquifer. Deep impacts at Plants 2 and 6 are limited to metals at two bedrock well locations (one current, one historical). There is some indication at Plant 3 (e.g., occurrence of metals in the deep overburden aquifer) that the glacial till and lack of thick interbedded zone result in some communication between perched water and the deep groundwater units.
- Deep Overburden – Encountered beneath the glacial till and is composed of dry interbedded sand/silt/clay located above bedrock. The deep overburden is unsaturated at Plants 2 and 6. However, saturated deep overburden is encountered at Plant 3.

2.2.2 Bedrock

The Pennsylvanian-age Grand River Group and Saginaw bedrock formations underlie the overburden deposits at the Site and throughout the Lansing area. These formations constitute the regional bedrock aquifer, which is utilized as the primary drinking water source for the Lansing area. The older Saginaw Formation consists primarily of sandstone and shale with siltstone inclusions, minor coal seams, and limestone layers

representing cyclic deposition in a wide ranging fluvial, lacustrine/ marine setting (Dorr and Eschman 1970). The Grand River Formation is primarily sandstone with minor shale and is encountered within erosional valleys of the underlying Saginaw Formation. Because the sandstone of the Grand River Formation was formed within erosional valleys of the Saginaw Formation, the two formations are hydraulically connected, and thereby comprise one aquifer known as the Grand River-Saginaw aquifer (U.S. Geological Society [USGS] 2000). The two formations together represent the primary drinking water aquifer in the Lansing area.

The bedrock beneath Plants 2 and 6 is encountered at depths ranging from 55 to 65 ft bgs and is relatively flat lying horizontal to sub-horizontal beds. At Plant 3, the bedrock has a significant amount of topographic relief and is encountered at a depths ranging from 65 feet below grade in the southeast to 110 feet below grade beneath the northern and western portions of the plant. The bedrock surface at Plant 3 slopes to the north-northwest into an apparent erosional bedrock valley. Based on the bedrock well logs for the Site, as well as logs for off-site municipal wells, the axis of the erosional bedrock valley appears to be oriented northeast-southwest and continue off site toward the Grand River, which has average stage levels approximately 30 feet above the bedrock aquifer. The location of the Site bedrock monitoring wells, regional municipal water supply wells, and an interpretation of the bedrock topography is included as Figure 4.

Within the bedrock valley, unconsolidated sand, silt, and gravel layers are encountered above bedrock and are typically saturated at Plant 3. Based on the groundwater elevation measured within the deep overburden, and impacts noted within the bedrock valley (Section 4.8.3), the bedrock valley appears to exhibit some control on groundwater flow within the deep overburden. Groundwater elevations in the deep overburden at Plant 3 generally mimic the bedrock topography.

2.2.3 Cross-Sections

Geologic information for the Site has been compiled into Mining Visualization System (MVS) geologic modeling software developed by CTech Development Corporation. The model includes a representation of all available soil boring logs, as well as the Geoprobe® Hydraulic Profiling Tool (HPT) logs (described further in Section 2.3.4). Information regarding the preparation of the MVS model, as well as the 3D model output is attached as Appendix B. Appendix B is included electronically on an attached DVD disc that includes the MVS model output files (4D files) and the software required to view the model.

The MVS model was used to export 2D cross-sections that include the soil boring log information and relative permeability profile collected with the HPT. The correlation between borings is then reduced to a two-color system that differentiates permeable zones, consisting of sands and gravels (yellow), from relatively less permeable zones consisting of silts and clays (blue). The two-color system simplifies an otherwise complex stratigraphic sequence and differentiates zones of potential mass transport from potential confining layers and zones of mass storage. The majority of the cross-sections for various areas of the Site are included as Appendix C, and these will be referred to as necessary during the discussion of the RFI results. Two cross-sections; an east-west section across Plants 2 and 6, and a north-south section across Plant 3, are provided as Figures 5 and 6, respectively. The cross-sections include groundwater analytical results that are discussed further in Section 4. All of the boring logs for the Site are provided as Appendix D, which is included on the attached disc.

2.3 Hydrogeology

The Grand River-Saginaw bedrock aquifer is the primary drinking water source for the Lansing area. The Site is located within wellhead protection areas for the City of Lansing (Plant 6) and Lansing Township (Plants 2 and 3). The location of the Site relative to the wellhead protection areas and municipal water supply wells are provided as Figure 7. Municipal water wells are generally installed as open bedrock wells with total depths of 400 to 500 feet below grade. The well casings are generally set at 50 or more feet into bedrock to assure well stability. Lansing Board of Water and Light personnel have indicated that these wells are typically capable of several hundred gallons per minute pumping capacity.

In general, there are three water bearing zones at the Site: the perched water, typically occurring within the fill, the interbedded zone, and occasionally within the glacial till, between 5 to 30 ft bgs; the deep overburden aquifer with a water table at 65 to 70 ft bgs; and bedrock, which is encountered at depths ranging from 55 to 110 ft bgs beneath the Site. In the northern portion of Plant 3 the deep overburden is saturated when the bedrock surface is located deeper than 70 ft bgs. A table summarizing groundwater elevations measured at the Site is provided as Table 3. A summary of monitoring wells currently installed at the Site is provided on Table 4.

2.3.1 Perched Zones

Due to the predominance of clay rich sediments, the interbedded zone has an overall low permeability and is characterized by isolated sand zones within layers of silt and

clay. Groundwater elevation measured within the perched zones is presented on Figure 8 (Plants 2 and 6) and Figure 9 (Plant 3). Figure 8 includes groundwater contours for all wells that are less than 25 feet deep. The lower conductivity (K) clays and silts result in high horizontal gradients and reflect the discontinuous nature of the conductive sand zones. Because the variability of K in the perched water zone is orders of magnitude greater than the groundwater gradient, the flow and contaminant transport at the Site is controlled by the hydrostratigraphy of the perched water zone. The complex gradients at the Site reflect this condition, and traditional groundwater elevation contour maps are of limited use within this zone to determine groundwater flow direction and transport.

A high-resolution sampling approach was used at the Site to gather sufficient soil and groundwater data within the perched zone to characterize and delineate groundwater impacts by contaminant distribution. Based on the spatial distribution of COCs in groundwater at the Site, groundwater flow direction within the perched zones appears easterly at Plants 2 and 6. At Plant 3, perched water occurs in isolated pockets, primarily within the shallow fill. In the central portion of Plant 3, groundwater flow direction within the fill material appears northeasterly. However, the localized nature of groundwater impacts relative to the LNAPL source is consistent with the limited transport potential in this area.

Slug tests were completed at several locations within the perched zone as part of the LNAPL mobility testing (Section 4.3). The results of the slug testing are provided on Table 5. The analysis of the 2012 slug test data is included as part of Appendix E. The results of the slug testing indicate that wells screened within permeable units of the perched zone have a K ranging from 0.07 to 40 feet per day (ft/day). The hydraulic conductivity for the finer grained silts and clays will be several orders of magnitude less than the permeable zones based on published K values. Based on the range of hydraulic conductivity, variable hydraulic gradients, and porosity associated with the sand-silt-clay soils, it is expected that groundwater flow velocities will range several orders of magnitude in the heterogeneous perched zone.

Based on the location of the 1,4-dioxane source mass (Plant 2 LNAPL), length of the resulting 1,4-dioxane plume (~1,800 feet), and potential age of release (1,4-dioxane came into common use as a stabilizer for trichloroethane (TCA) in the 1960s [Mohr 2010]), the groundwater velocity within the perched zone could be on the order of 0.1 to 0.2 ft/day, assuming an age of 25 to 50 years. Based on the abundance of lower conductivity soils in the perched zone, the transport velocity has likely slowed as mass

was stored in the finer grained matrix due to diffusion. Additional groundwater trend monitoring is warranted to verify plume stability.

Hydraulic communication between the perched zone and bedrock aquifer is generally limited, which is supported by the following evidence:

- 1) A zone of dry deep overburden beneath the glacial till underlying Plants 2, 3, and 6 that, where present, form a low-permeability barrier to vertical flow.
- 2) A separation of the perched zone and regional bedrock aquifer by 30 (Plants 2 and 6) to 60 feet (Plant 3) of glacial till and vadose zone. The vertical K of the glacial till has been tested at 10^{-5} ft/day at Plant 6. Permeameter results for the glacial till are summarized on Table 6.
- 3) A general lack of site-related groundwater impacts in the bedrock aquifer beneath the most heavily impacted areas of the Site, including the LNAPL impacts located within the perched zones at Plants 2 and 3.

The communication between the perched zone and deep overburden/bedrock aquifer at Plant 3 is also limited; however, metals have been detected beneath the former plating area (Areas 14, 17 and 18) suggesting some leakage does occur through the glacial till in this part of the Plant. In addition, impacts occur to the deep overburden aquifer in Plant 3 where the glacial till has been removed such as the 1,4-dioxane impacts beneath the “coliseum” in the southwestern portion of Plant 3.

2.3.2 Deep Overburden (Plant 3)

As discussed above, the bedrock beneath Plant 3 slopes to the northwest into an apparent bedrock valley (Figure 4). Where deep overburden is located at a depth greater than approximately 70 feet below grade at Plant 3, groundwater is encountered within the overburden overlying the bedrock. The lithology of the deep overburden aquifer consists mainly of interbedded fine sand and silt. The groundwater elevation of the overburden aquifer is generally 1 to 2 feet higher than in corresponding bedrock wells and the horizontal gradient generally mimics the bedrock topography. A groundwater elevation contour map for this the deep overburden unit included as Figure 10. Within the deep overburden, a groundwater elevation high is located near MW-02-01 along the eastern property boundary of Plant 3. Apparent groundwater flow within the deep overburden across the central portion of Plant 3 is to the northwest, consistent with the bedrock topography.

Slug tests were completed in 2002 at three locations within the deep overburden aquifer in the central portion of Plant 3. The results of 2002 slug testing are summarized on Table 7. The hydraulic testing indicates an average K of approximately 0.2 ft/day. Based on the measured gradient (0.013) in the central part of Plant 3, and an assumed effective porosity of 10 percent, the groundwater flow velocity within the deep overburden is approximately 0.04 ft/day or 14 ft/year.

2.3.3 Bedrock Aquifer

The Grand River Group and Saginaw Formations consist largely of sandstone interbedded with shale. Groundwater flow within bedrock is largely dependent on the presence of bedrock fractures and the groundwater elevation within a bedrock well will depend on screen depth, fracture distribution and the proximity to municipal pumping wells. According to a 1997 USGS groundwater flow model (USGS Rpt 97-569) bedrock groundwater flow is heavily influenced by municipal pumping. The model predicts a northeast-southwest trending flow divide located southeast of the Site. Groundwater north of the divide (including the area of the Site) moves toward the north toward pumping wells within the North Lansing Well Field, while groundwater south of the divide moves toward a regional cone of depression associated with wells near the Lansing downtown area.

The bedrock groundwater elevation contours developed for the Site are presented on Figure 11. The bedrock groundwater elevation contours developed for the Site suggest radial apparent groundwater flow at Plant 3 and a westerly flow at Plants 2 and 6. The relatively high groundwater elevation observed at MW-04-01 is elevated relative to other bedrock wells at the Site, but co-located with the relatively high groundwater elevation observed in deep overburden at MW-02-01. This mound could reflect localized recharge as discussed above in Section 2.3.2, or localized “perched” conditions within bedrock related to the occurrence shale upon which the bedrock well interval is placed. This well is also installed on the eastern margin of the bedrock valley.

Specific capacity testing of bedrock wells suggests the bulk K of the bedrock ranges from 80 ft/day in highly fractured wells to 0.6 ft/day in wells where minimal fracturing is encountered. A summary of the specific capacity testing results is provided as Table 8. The bulk K of the bedrock boreholes is generally dependent upon the number of fractures encountered at the well location. Bedrock wells with a large number of fractures encountered during drilling have a higher bulk K. For example, several fractures were encountered at bedrock well MW-12-02 and the resulting specific

capacity testing indicated a relatively high bulk K of 80 ft/day. Bedrock wells with a limited amount of fracturing encountered (e.g. MW-12-01, MW-12-03, MW-12-05, MW-12-06) have an average bulk K of 0.8 ft/day.

2.3.4 Hydraulic Profiling Tool Logging

In 2012, the HPT was used at Plants 2 and 6 to map the relative permeability of the overburden and guidevertical aquifer profile (VAP) sampling at the Site. Due to the thick unsaturated zone at Plant 3, standard soil description was used define the stratigraphy rather than permeability profiling. The HPT consists of a special tool attached to the end of a Geoprobe drill string that enables a continuous injection of small volumes of water (typically 200 milliliters per minute) during advancement of the probe. At the same time, the fluid pressure generated by the injection is measured and logged continuously using pressure transducers near the injection port. The pressure response data provides a relative measure of permeability that is comparable within the vertical profile of each sounding as well as between soundings at a given site. In general, a high pressure response correlates with lower permeability units (silt/clay), and a low pressure response correlates to higher permeability units (sand/gravel). The HPT logs are attached as part of Appendix D.

The HPT pressure logs are incorporated into the MVS stratigraphic model included as part of Appendix B, as well as presented on the cross-sections included as Appendix C. The HPT pressure logs illustrate the highly variable nature of the Site stratigraphy and were used to help guide selection of permeable zones for VAP sampling. In general, the logs consistently show the stratigraphic sequence at Plants 2 and 6 with a highly variable zone in the upper 30 feet followed by high or maximum pressure readings through the glacial till zone, and lower/variable pressure readings at depth with in the deep overburden.

At three of the HPT boring locations, soil samples were collected at 5-foot intervals and submitted for sieve analysis. Figures comparing the descriptive logs, HPT pressure response, and sieve analyses are included as part of Appendix E. Review of the comparison logs suggests that, in general, there is good agreement between the HPT pressure response and the logged lithology. Soils described as sand (permeable transport zones) versus clay or silt (less permeable storage zones) produce an appropriate low- or high-pressure response, respectively. There is some variability inherent to the HPT and soil description comparison related to the separate boreholes utilized for each boring (typically offset by 5 to 10 feet); however, the HPT response is

sufficient to accurately map and distinguish the transport and storage zones in the overburden system.

2.3.5 Surface Water Hydrology

The Grand River wraps around the Site to the south, east and west. At its closest proximity, the river is located approximately 2,000 feet north of Plant 3 as shown on Figure 1. The average stage elevation of the Grand River is approximately 830 ft amsl. The elevation of the bedrock aquifer at the Site ranges from 808 to 787 ft amsl. This suggests that although the Grand River may locally receive discharge from the overburden, it does not receive discharge from the bedrock aquifer, and is known to lose water to bedrock in the Lansing area.

2.3.6 Stormwater / Surface Water Discharge

The majority of Plants 2 and 3 remain covered under concrete slabs and asphalt. An extensive storm sewer collection system remains in place to prevent standing water at the Site. The storm sewer system for each plant is presented on Figures 12 through 14. Measured invert depths indicate that portions of the storm sewer network are below the perched water table. As such, during dry periods, groundwater infiltrates into the storm sewer system and eventually discharges to either the Grand River (Plants 2, 3, and southern Plant 6), or the City of Lansing wastewater treatment facility (northern Plant 6). In general, storm sewers at Plants 2 and 3 collect stormwater at common outfalls and discharge to the Grand River located north of the Site. A portion of the Plant 2 storm sewer system apparently discharges to the west of the Plant 2 to the Bogas Drain and then to the Grand River. To date, the storm structures servicing the western portion of the Plant 2 system have not been located, or otherwise could not be accessed for sampling.

Much of the Plant 6 storm sewer system was capped or removed as part of the Plant 6 decommissioning activities. Three storm sewer outfalls remain at Plant 6. Two outfalls are located on the southern part of Plant 6, on either side of the railroad easement (Areas 6, 7, and 9), and connect to the Lansing storm sewer system. The storm sewers located on the southern portion of Plant 6 exit the Site through stormceptor oil/water separation structures (ESC-2 and ESC-3). South of Plant 6, the Lansing storm sewer system is separate from the sanitary sewer and discharges to the Grand River south of the Site. On the northern portion of Plant 6, the storm sewers near the Plant 6 entrance and northern parking lot area are intact and connect to the Lansing

combined storm/sanitary sewer that flows to the wastewater treatment facility located to the east of Plant 3.

3. Exposure Pathway Analysis

A pathway analysis was completed for the Site to identify receptors, potentially complete exposure pathways and relevant and applicable MDEQ Part 201 promulgated criteria (MDEQ 2012a) and draft MDEQ pathway-specific screening levels for comparison to soil, groundwater, and soil gas data collected at the Site. In addition, the pathway analysis and Site data screening evaluation will be used to determine areas of the Site requiring exposure controls. The full exposure pathway analysis is presented in Appendix F. The following is a brief summary of the exposure pathway analysis.

In general, the Site conditions are such that the general exposure pathway conceptual site model (EPCSM) for all three plants is the same (e.g., current land use, concrete and asphalt cover over a portion of each plant, areas within each plant where shallow perched groundwater is encountered within the top 10 feet, similar off-site land uses). In addition, the anticipated future use of all three plants is for nonresidential (likely industrial) use. Therefore, one general EPCSM was developed for the Site assuming that under current conditions, no pathways have been adequately restricted and a second EPCSM was developed assuming that certain pathways would be eliminated through the placement of Restrictive Covenants on the Site, as determined through the screening evaluation.

Currently, most ground surface is covered with concrete, asphalt and/or portions of the former industrial buildings (e.g., foundations, basements, etc.). There are limited exposed vegetated areas and no natural habitats or wetland areas on the Site. The anticipated future land use is industrial and is not expected to be redeveloped with significant areas that could serve as habitat for ecological receptors. Potential natural habitats are disturbed or non-existent. No ecological receptors were identified for further evaluation on the Site.

Conditions on the Site were evaluated within the context of the current MDEQ promulgated criteria (MDEQ 2012a); however, for shallow groundwater and soil gas, the draft screening levels for vapor intrusion (MDEQ 2012b) were used for comparison.

3.1 Exposure Assessment

Adverse health effects associated with COCs in environmental media can only occur if there is exposure. The objective of the exposure assessment is to identify pathways by which exposure may occur and to estimate the magnitude, frequency, duration, and routes reasonably anticipated for human exposure associated with the conditions being evaluated. This information is then integrated and used to estimate a dose that may be received under the conditions of interest. This dose can be compared to the guidelines or standards or used to calculate media concentrations that can then be compared to environmental data. This can be used to provide insight into the potential for adverse health effects to occur under the conditions being evaluated.

MDEQ provides media-specific, receptor-specific, and pathway-specific criteria that can be used to screen environmental data. Relevant criteria are chosen based on the information summarized in the exposure assessment.

3.1.1 Exposure Pathways

An EPCSM was developed for the Site and adjacent properties to summarize the current understanding of the sources of COCs, the means by which they are released and transported within and among media, and the exposure pathways and routes by which they may contact human receptors (see Figure F-1, Appendix F). The EPCSM was used to identify applicable and relevant criteria to evaluate on-site and off-site conditions and to confirm MDEQ generic screening criteria are appropriate for Site conditions. Elements of the EPCSM are discussed briefly in the following sections.

3.1.1.1 *Potential Sources*

Historical activities are assumed to have contributed COCs to environmental media. Based on previous investigations AOIs and investigation areas have been identified, with concurrence of the MDEQ, as areas having the greatest probability of being impacted by historical activities. COCs have been detected in soil, groundwater, and soil gas collected at the Site. No current activities at the Site have been identified as sources of additional contamination.

3.1.1.2 *Transport Mechanisms*

Migration pathways are processes by which constituents in an affected medium (i.e., soil, groundwater, or soil gas) are transported within that medium and/or between

media. COCs can migrate from soil to groundwater, ambient air, and indoor air; through shallow groundwater to deeper groundwater; from groundwater to indoor air; and from soil gas to indoor air. The pertinent migration pathways for soil, groundwater, and soil gas at the Site are discussed in greater detail in Section 2.1.2 of Appendix F.

3.1.1.3 Land Use and Potentially Exposed Populations

Currently, the Site is vacant, completely fenced, and the majority of buildings have been demolished. The Site is currently zoned as heavy industrial, and is likely to be redeveloped for nonresidential (industrial) use in the future. The Site is surrounded by residential and commercial properties, a couple of parks, and several school properties. The Site was evaluated based on a current and future nonresidential use. Conditions at the Site were evaluated based on potentially exposed industrial and construction workers. Off-Site properties were evaluated based on a residential exposure scenario.

Additional detail for on-site and off-site receptors is provided in Section 2.1.3 of Appendix F.

3.1.1.4 Potentially Complete Exposure Pathways

The Site and surrounding areas are partially located within the City of Lansing Well Head Protection Area and partially within the Township of Lansing Well Head Protection Area. As such, use of groundwater off site cannot be restricted; however, Restrictive Covenants are planned to be recorded with the deeds for Plants 2, 3, and 6 to prohibit the use of on-site groundwater for any purposes. A map of the Site showing the approximate plant locations and the City of Lansing and Township of Lansing Well Head Protection Areas is included as Figure 7. Off-site groundwater was evaluated as a potential drinking water source. Groundwater use on the Site was assumed to be prohibited through a future deed restriction.

Potentially complete exposure pathways for on-site and off-site receptors under current and anticipated future conditions are summarized in Figures F-1 and F-2 included in Appendix F, and are briefly discussed below. The EPCSM for anticipated future use assumes that potentially unacceptable exposures on site are eliminated to the extent possible through the placement of institutional and/or engineering controls (see Figure F-2).

Potentially complete exposure pathways (consistent with those defined in Part 201) include the following:

On-Site Industrial and Construction Workers:

- Soil:
 - Direct contact (incidental ingestion, inhalation of fugitive dust, inhalation of vapor) with surface and subsurface soil (current and future).
 - Inhalation of vapors or particulate emanating from surface and/or subsurface soil (current and future).
 - Inhalation of vapors in on-site buildings (future only).
- Groundwater:
 - Contact with shallow groundwater during excavation activities.
- Soil Gas:
 - Inhalation of soil gas migrating to indoor air (future only).

Off-Site Residential and Construction Workers:

- Soil:
 - Direct contact (incidental ingestion, inhalation of fugitive dust, inhalation of vapor) with surface and subsurface soil (current and future).
 - Inhalation of vapors or particulate emanating from surface and/or subsurface soil (current and future).
 - Inhalation of vapors in buildings (current and future only).
- Groundwater:
 - Ingestion of groundwater as drinking water (current and future).
 - Contact with shallow groundwater during construction activities (current and future, construction workers only).
- Soil Gas:
 - Inhalation of soil gas migrating to indoor air (current and future).

Additional detail for potentially complete exposure pathways is provided in Section 2.1.4 of Appendix F.

3.2 Relevant and Applicable MDEQ Criteria

The following sections summarize the MDEQ Part 201 criteria (MDEQ 2012a) that were determined to be relevant and applicable to the Site and off-site properties and that were therefore used to evaluate conditions. Criteria were identified based on the information summarized in the exposure assessment summarized above and presented in detail in Appendix F.

3.2.1 Soil

Soil data have been collected on-site at Plants 2, 3, and 6 and at various off-site locations. The following table summarizes the relevant and applicable criteria for on-site and off-site soil based on current conditions and for future conditions, where it is assumed Restrictive Covenants have been placed on the Site to control potential unacceptable exposures. For inorganic constituents, if the available Statewide Default Background Level was greater than a criterion, then the pathway-specific criterion defaults to the Statewide Default Background Level. In effect, metals results for the Site were first compared to Statewide Default Background levels. If they exceeded background, they were then compared to other criteria.

Table 9. Summary of Relevant and Applicable Soil Criteria

Criteria	Current Conditions		Anticipated Future Conditions	
	On-Site Soil	Off-Site Soil	On-Site Soil	Off-Site Soil
Drinking Water Protection (DWP) Criteria	NPC	R & A (Res)	NPC (a)	R & A (Res)
Groundwater Surface Water Interface Protection (GSIP) Criteria	R & A	R & A	R & A	R & A
Groundwater Contact Protection (GCP) Criteria	R & A	R & A	NPC (a)	R & A
Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	R & A (NR)	R & A (Res)	NPC (a)	R & A (Res)
Infinite Source Volatile Soil Inhalation Criteria (VSIC)	R & A (NR)	R & A (Res)	R & A (NR)	R & A (Res)
Particulate Soil Inhalation Criteria (PSIC)	R & A (NR)	R & A (Res)	R & A (NR)	R & A (Res)
Direct Contact (DC) Criteria	R & A (NR)	R & A (Res)	NPC (a)	R & A (Res)
Soil Saturation (Csat) Levels	R & A	R & A	R & A	R & A

NPC – not potentially complete

NR – nonresidential

R & A – Relevant and Applicable

Res – residential

(a) Pathway will be restricted as needed based on results of the screening level evaluation

Based on the screening evaluation (presented in Section 4), Restrictive Covenants will be proposed for the Site to the extent practicable to eliminate unacceptable exposures to soil impacts. Land use will be restricted to nonresidential uses, institutional controls (i.e., no use of groundwater) will be implemented, and engineering controls (i.e., vapor barriers on future buildings) will be required, as needed. The EPCSM considering the use of Restrictive Covenants to eliminate unacceptable exposures is presented in Figure F-2.

3.2.2 Groundwater

The following table summarizes the relevant and applicable criteria for on-site and off-site groundwater under current conditions and for future conditions based on anticipated Restrictive Covenants.

Table 10. Summary of Relevant and Applicable Groundwater Criteria

Criteria	Current Conditions		Anticipated Future Conditions	
	On-Site Groundwater	Off-Site Groundwater	On-Site Groundwater	Off-Site Groundwater
Drinking Water (DW) Criteria	NPC	R & A (Res)	NPC (a)	R & A (Res)
Groundwater Surface Water Interface (GSI) Criteria	R & A	R & A	R & A	R & A
Groundwater Contact (GC) Criteria	R & A	R & A	NPC (a)	R & A
Groundwater Volatilization to Indoor Air Inhalation Criteria (GVIC)	R & A (NR)	R & A (Res)	NPC (a)	R & A (Res)
Draft Groundwater Concentrations for Vapor Intrusion (GW_{VI-res} and GW_{VI-nr})	R & A (NR)	R & A (Res)	NPC (a)	R & A (Res)
Acute Inhalation Screening Levels	R & A	R & A	R & A	R & A
Flammability and Explosivity Screening Levels (FESL)	R & A	R & A	R & A	R & A
Water Solubility Levels	R & A	R & A	R & A	R & A

NPC – not potentially complete

NR – nonresidential

R & A – Relevant and Applicable

Res – residential

(a) Pathway will be restricted as needed based on results of the screening level evaluation

Based on the screening evaluation (presented in Section 4), Restrictive Covenants will be proposed for the Site to the extent practicable to eliminate unacceptable exposures to groundwater impacts. Land use will be restricted to nonresidential uses, institutional controls (i.e., no use of groundwater) will be implemented, and engineering controls

(i.e., vapor barriers on future buildings) will be implemented, as needed. The EPCSM considering the use of Restrictive Covenants to eliminate unacceptable exposures is presented in Figure F-2.

3.2.3 Soil Gas

Soil gas samples have been collected at the Site in four locations located near the property boundaries. The following table summarizes the relevant and applicable draft screening levels for soil gas under current conditions and for future conditions based on anticipated Restrictive Covenants. As a conservative screen, the on-site soil gas data were used to evaluate potential off-site receptors.

Table 11. Summary of Relevant and Applicable Soil Gas Criteria

Criteria	Current Conditions		Anticipated Future Conditions	
	On-Site Receptors	Off-site Receptors	On-Site Receptors	Off-site Receptors
Draft Soil Gas Concentrations for Vapor Intrusion	R & A (NR)	R & A (Res)	NPC (a)	R & A (Res)

NPC – not potentially complete

NR – nonresidential

R & A – Relevant and Applicable

Res – residential

(a) Pathway will be restricted as needed based on results of the screening level evaluation

Based on the screening evaluation (presented in Section 4.0), Restrictive Covenants will be proposed for the Site to the extent practicable to eliminate unacceptable exposures to soil gas impacts. Land use will be restricted to nonresidential uses, and a requirement for vapor barriers on future buildings or additional data showing that vapor intrusion is not a concern will be required prior to the construction of new buildings. The EPCSM considering the use of Restrictive Covenants to eliminate unacceptable exposures is presented in Figure F-2.

3.3 Constituents Lacking Criteria

Ten constituents were detected in soil and/or groundwater samples that lack promulgated or draft MDEQ Part 201 criteria. These include 2-nitroaniline, 4-nitrophenol, bis(2-chloroethoxy)methane, methyl acetate, 2,2'-oxybis(1-chloropropane), benzaldehyde, 1,1-biphenyl, 1-methylnaphthalene, cyclohexane, and methylcyclohexane. Data for these constituents are included in Tables 12 through 17, and sample locations are shown on Figures 15 and 16.

Each constituent was evaluated based on frequency of detection and locations of detections to determine if impacts were delineated and if detections were located in areas where planned actions for co-located COCs would limit the potential for exposure. In addition, the detected concentrations were compared to available screening levels including the USEPA's Regional Screening Levels for Tapwater and Industrial Soil Direct Contact (USEPA 2012). The results of this evaluation are provided on Table F-4 (in Appendix F) and discussed in Section 2.2 of the Pathway Analysis included in Appendix F. Table F-4 includes the frequency of detection across the three plants, the maximum detected concentrations, the investigation areas in which the constituents were detected, and the rationale for why each constituent was not recommended for further evaluation.

Based on the results of the analysis, none of the constituents lacking criteria were recommended for further evaluation. All of the detections were delineated to either non-detect or below the USEPA Regional Screening Levels within the Site property boundaries.

4. Summary of RFI Phase 2 Investigation Activities

The overall objective of the RFI Phase 2 activities is to characterize and delineate the COCs at the AOIs identified by the CCR and *RFI Phase 1 Summary* as requiring additional investigation (ARCADIS 2008 and 2012a, respectively). The AOIs agreed upon by RACER and MDEQ as requiring additional evaluation are summarized in the AOI summary tables included as Appendix A. The AOI summary tables include a description of each AOI, general findings of the RFI Phase 1 activities, the Phase 1 recommendation for further action/no further action, and the assigned RFI Phase 2 investigation area, if applicable.

The RFI Phase 2 scope of work was designed to be adaptive, particularly during the initial stages, to minimize the number of mobilizations required to complete the investigation. Details regarding the RFI Phase 2 approach, strategy, and investigation methodology are provided in the *RFI Work Plan, Phase 2* (ARCADIS 2012a). The adaptive nature of the scope of work required the use of an on-site laboratory (Stone Environmental, Inc.) to provide real-time analytical testing, and the use of next generation characterization techniques such as HPT and laser-induced fluorescence (LIF), to rapidly and adaptively characterize the hydrostratigraphy and delineate LNAPL, respectively. Following each stage of the investigation, a memorandum was submitted to the MDEQ outlining the specific scope for the next stage (ARCADIS 2012b, 2012c).

As outlined in Section 1.4, AOIs investigated during the RFI Phase 2 activities were grouped into investigation areas to simplify the RFI Phase 2 organization. Each investigation area corresponds to the location of one or more of the AOIs. A summary of the Investigation Areas 1 through 21 is provided on Table 2. Table 2 outlines the associated AOIs for each area, provides a brief summary of the Phase 1 and Phase 2 results, and provides a summary of the relevant criteria exceedances for each area.

Table 2, together with the AOI summary tables included as Appendix A, provide a summary of the AOI investigation process beginning with the start of the RFI Phase 1 through the end of the RFI Phase 2. Therefore, each investigation area will not be called out individually in the following sections. Rather, the following sections will provide an overview of the RFI Phase 1 and 2 findings and highlight only areas that 1) are an exception to the CSM, 2) require particular corrective action above and beyond groundwater use restriction, or 3) have additional data needs.

The locations of the investigation areas relative to AOIs are provided on Figure 2 (Plants 2 and 6) and Figure 3 (Plant 3).

4.1 Investigation Results

Base on overall RFI approach and strategy, extensive sampling was required to characterize and delineate COCs at the Site. Together, the RFI Phase 1 and 2 activities included the following:

- 437 shallow soil borings (generally <30 ft bgs)
- 36 HPT/VAP borings (to bedrock or refusal, Plants 2 and 6)
- 10 VAP borings (to bedrock or refusal, Plant 3)
- 81 LIF borings to delineate LNAPL (Plant 2: 58, Plant 3: 23)
- 221 groundwater VAP samples
- 1,542 soil samples (Phase 1: 285, Phase 2: 1,257)
- 4 soil gas samples

- Installation of 54 monitoring wells (Phase 1 and 2; includes long-term monitoring wells and LNAPL monitoring wells)
- Collection of groundwater samples from all available site monitoring wells during two annual sampling events (2011 and 2012). The 2012 sampling event included 90 monitoring wells.
- Completion of a comprehensive LNAPL mobility assessment at Plants 2 and 3. The mobility assessment included field LNAPL transmissivity testing, a comparison of laboratory-determined LNAPL field and residual saturations, LNAPL pore velocity potential calculations, and LNAPL pore-entry pressure calculations.
- Completion of storm sewer sampling at Site outfalls during two separate events to assess whether COCs could be entering the sewer via groundwater infiltration at concentrations that could exceed GSI Criteria at the Grand River.
- Sampling, cleanout and monitoring of the Plant 6 stormceptor identified with LNAPL during the storm sewer sampling activities.

The laboratory analytical results for all of the RFI Phase 1 and 2 soil and groundwater samples are summarized on Tables 12 through 17. All monitoring wells, soil borings, HPT borings, LIF borings, VAP borings, and soil gas sample locations are included on Figures 15 (Plants 2 and 6) and 16 (Plant 3). The laboratory analytical reports are provided as Appendix G (attached disc). Metals results for historical sampling activities are considered in the following discussion, as well as included on figures (as appropriate). Historical metals sample results are summarized on tables included as Appendix H (attached disc). A number of overview figures are provided to illustrate the sampling results from a site-wide perspective. These figures include:

- Figures 17 and 18 (Plants 2 and 6, and Plant 3, respectively) - plan view summary of the VOC and SVOC soil and groundwater results collected at the Site.
- Figures 19 and 20 – plan view extent of 1,4-dioxane in groundwater at the Site (Plants 2 and 6, and Plant 3, respectively) with reference to both the existing DW Criteria of 85 micrograms per liter ($\mu\text{g/L}$), as well as the proposed DW Criteria of 8.5 $\mu\text{g/L}$, expected to take effect in December 2013.

- Figure 21 – plan view extent of metals detected in soil above the most restrictive RBSLs. This map also includes historical soil sample data collected during various site assessment activities beginning in the 1980s.
- Figure 22 - plan view extent of metals detected in perched water above the most restrictive RBSLs
- Figure 23 - plan view extent of metals detected in deep groundwater (deep overburden and bedrock) above the most restrictive RBSLs
- Figure 24 – extent of LNAPL impacts at Plant 2 based on soil and LIF borings.
- Figure 25 - extent of LNAPL impacts at Plant 3 based on soil and LIF borings.

In addition to the site-wide figures outlined above, the MVS model was used to generate 3D model output for the Site depicting soil and groundwater analytical data. The MVS model output is included as Appendix B. The model output was used to create 3D screenshot figures for each investigation area. The screenshot figures for each investigation are included in Appendix I. The MVS models and screenshot figures depict laboratory results that are normalized to the most conservative applicable criteria (typically GSI/GSIP or DW/DWP) to facilitate understanding of the magnitude and distribution (vertical and horizontal) of these COCs throughout the Site. Normalization of the data was achieved by dividing the laboratory result by the criteria:

$$\text{Laboratory Result} / \text{Regulatory Criteria} = \text{Normalized Value}$$

The normalized value has the properties:

- Less than one - laboratory result is below the regulatory criteria
- Equal to one - the laboratory result is equal to the regulatory criteria
- Greater than one - the laboratory result exceeds the regulatory criteria

Once the individual parameters are normalized to criteria, the compounds from each group (i.e. VOCs, SVOCs, metals) are added together to produce a total normalized value for the compound group. The compounds with a normalized value greater than or equal to one are summed within each group to produce the normalized value. The total normalized values for a compound group represent the relative strength of the

exceedance and can be visually compared in the model or screenshot figures to quickly identify the areas of greatest concern. The MVS model figures are annotated with specific information to illustrate which COCs were detected beyond DW/DWP or GSI/GSIP Criteria; for example, soil or groundwater impacts in excess of direct contact or vapor inhalation criteria would be noted on the figures. Additional information regarding the normalization process and compilation of the MVS model output are presented in Appendix B.

Appendix B (attached disc), includes the following types of MVS models:

- Site-wide models showing all normalized soil and groundwater data for compound groups VOCs, SVOCs and PCBs, both compared to restrictive criteria, and compared to various criteria
- Site-wide models showing all normalized metals data, both for total metals and individual metals, both compared to restrictive criteria, and compared to various criteria
- LNAPL models for Areas 5-2 and 17 depicting the LIF data, sample results and LNAPL extent
- Site-wide stratigraphic model depicting HPT borings and soil borings and interpreted hydrostratigraphic units

A complete list of the attached model files is provided in Appendix B.

The following sections provide a summary of the RFI results organized by media.

4.2 Storm Sewer Sampling

Groundwater and soil impacts above GSI/GSIP Criteria have been identified in shallow soil and perched water at the Site at depths consistent with the storm sewer invert elevations in certain areas. To assess whether COCs may be entering the sewer via groundwater infiltration at concentrations that could exceed GSI Criteria at the Grand River, ARCADIS collected storm sewer samples at strategic points on the Site during dry weather flow conditions. Details regarding the storm sewer sampling are provided in the *Stormwater Investigation Work Plan* (ARCADIS 2012e). Storm sewer samples were submitted for analysis of COCs, including Target Compound List VOCs, Target Compound List SVOCs, Target Analyte List Metals, and PCBs. The layout of the

stormwater system and the storm sewer sampling locations are provided on Figures 12 through 14.

To date, samples have been collected during two storm events; November 6 and 7, 2012 and January 18, 2013. The analytical results for the storm sewer sampling are summarized on Table 18. For clarity, only compounds that were detected at least once are included on the summary table. Results of the sampling are as follows:

- Plant 2: During the November and January sampling events, all COCs within the Plant 2 storm sewer were either non-detect or below GSI Criteria.
- Plant 3: The November sampling indicated several metals above GSI Criteria including, total chromium, copper, lead, and zinc. In January, a revised sampling methodology minimized the turbidity of the sample and as a result, all COCs were below GSI Criteria.
- Plant 6: At the southern outfall, the November sampling results indicated several metals and SVOCs above GSI Criteria. In January, a revised sampling methodology minimized turbidity in the sample. The January results indicate only selenium exceeded the GSI criteria. Selenium was detected at a concentration of 0.006 milligrams per liter (mg/L) compared to a GSI Criterion of 0.005 mg/L and xylenes were detected at a concentration of 64 micrograms per liter (µg/L), compared to a GSI Criterion of 41 µg/L. At the northern outfall from Plant 6, all COCs are either non-detect or below GSI Criteria.
- Plant 6: During the November sampling event at Plant 6, LNAPL was observed in Stormceptor ESC-2, located east of the railroad easement. As discussed in Section 4.6, a program of stormceptor cleaning and monitoring activities was completed to evaluate the nature of impacts. The LNAPL was determined to be a thin layer of motor oil. Monitoring of the stormceptor has not indicated additional accumulation of LNAPL within the stormceptor, or occurrence of LNAPL in upgradient storm sewer structures.

Based on the results of the storm sewer sampling, water with COC concentrations nominally in excess of GSI Criteria discharges from the southern portion of Plant 6 then enters the Lansing storm sewer system. The minimum distance from Plant 6 to the Grand River is 4,500 feet (straight line). On the way to the river, the storm system is expected to receive additional groundwater discharge from the surrounding area that serves to dilute the COCs emanating from Plant 6. Based on the length of the sewer

between the Site and the Grand River, it is expected that dilution from groundwater infiltration will reduce the concentrations to below the GSI standard before discharge to the Grand River.

Based on the January sampling results, storm sewer discharge from Plants 2 and 3 are below GSI criteria for all COCs.

As described in Section 3, the GSI/GSIP criteria are relevant and applicable for the Site; however, the analytical results indicate that the magnitude of the concentrations are generally close to the GSI criteria and dilution will reduce the concentrations to below the standard before discharge to the Grand River. RACER will continue to monitor the storm sewers as part of the quarterly monitoring activities to verify the stormwater base load and seasonal trends during the development of the CMS. Provided the magnitude of the COC concentrations is similar, ARCADIS will petition the MDEQ that the discharge is de minimis, consistent with the revised Part 201 Rules (Act 451 Sec. 324.20120e).

4.3 Light Non-Aqueous Phase Liquid (LNAPL), Delineation, Mobility and Recoverability

There are two areas of the Site with LNAPL present in the shallow perched zone; the central portion of Plant 2 (Area 5-2) and the north-central portion of Plant 3 (Area 17). In addition, LNAPL was detected in a stormceptor at the southern boundary of Plant 6. A detailed report documenting the LNAPL evaluation at Plants 2 and 3 is included as Appendix J. The stormceptor evaluation is summarized in Section 4.6 below. The following provides a summary of the LNAPL evaluation for each plant.

4.3.1 Delineation of LNAPL

The lateral and vertical extents of LNAPL at Plants 2 and 3 were delineated using a combination of LIF soundings and soil and groundwater sampling. A total of 58 LIF soundings were completed at Plant 2 and 23 LIF soundings were completed at Plant 3. Details regarding the operation of LIF are provided in the *RFI Work Plan, Phase 2* (ARCADIS 2012a). In general, the LIF tool is advanced into the soil and allows for rapid and high-resolution assessment of LNAPL impacts. Subsequently, soil and groundwater samples were collected from locations interior to and around the perimeter of the LNAPL areas to verify that the delineation was complete. Figures 24 and 25 illustrate the locations of the LIF soundings and areal extent of LNAPL impacts at Plants 2 and 3, respectively. The 3D screenshot figures depicting Area 5-2 are

included in Appendix I. Cross-sections for Areas 5-2 and 17 are included as part of Appendix C. The MVS model output for both areas is included as part of Appendix B.

Combined with site stratigraphy, it is evident that the vertical extents of LNAPL impacts are limited by the occurrence of the glacial till at both Plants 2 and 3. These results also indicate that the elevated concentrations of CVOCs encountered in the LNAPL at Area 5-2 are vertically delineated and controlled by the occurrence of the till, which has limited potential vertical migration of potential DNAPL. Finally, installation and sampling of bedrock monitoring wells adjacent to the LNAPL do not show groundwater impacts of VOCs or SVOCs, confirming that dissolved-phase migration of COCs contained within the LNAPL is limited by the till.

4.3.2 Mobility and Recoverability Evaluation

ARCADIS completed an LNAPL mobility and recoverability study for Plants 2 and 3 at the Site to assess the potential for future LNAPL migration, and determine the extent to which LNAPL is recoverable in these areas. The activities completed included field LNAPL transmissivity testing and LNAPL mobility modeling following ASTM International (ASTM), Interstate Technology and Regulatory Council (ITRC), and American Petroleum Institute (API) methods. The results of the assessment indicate the following:

- LNAPL is mobile within the interior of LNAPL bodies at Plant 2 and in a few specific areas at Plant 3, but is stable and not migrating.
- While a fraction of the LNAPL at Plants 2 and 3 is recoverable, aggressive LNAPL recovery (through hydraulically-based remediation) will not result in a beneficial reduction in overall LNAPL mass.

4.3.3 Terminology

The ITRC and MDEQ identify three different conditions that characterize the potential for NAPL movement in the subsurface (ITRC 2009; State of Michigan 2012). The MDEQ definitions are presented below:

- **Residual NAPL Saturation:** The range of NAPL saturations greater than zero NAPL saturation up to the NAPL saturation at which NAPL capillary pressure equals pore-entry pressure and includes the maximum NAPL saturation, below which NAPL is discontinuous and immobile under the applied gradient.

- Mobile NAPL: NAPL that exceeds residual saturation and includes migrating NAPL, but not all mobile NAPL is migrating NAPL.
- Migrating NAPL: NAPL that is observed to spread or expand laterally or vertically or otherwise result in an increased volume of the NAPL extent, usually indicated by time series data or observation. Migrating NAPL does not include NAPL that appears in a well within the historical extent of the NAPL due to a fluctuating water table.

4.3.4 Assessment Methodology

A comprehensive LNAPL mobility assessment uses multiple lines of evidence to determine LNAPL mobility and the potential for future LNAPL migration. The following lines of evidence were used to assess LNAPL mobility and recoverability at the Site:

- Field LNAPL transmissivity testing
- Comparison of laboratory-determined LNAPL field and residual saturations
- LNAPL pore velocity potential calculations
- LNAPL pore-entry pressure calculations

These complimentary lines of evidence have an inherent logic used to determine whether LNAPL is residual, mobile, or migrating. The following sections summarize the results of the assessment for Plant 2 and Plant 3. A more detailed description of LNAPL mobility and recoverability assessment approach is included in Appendix J.

4.4 Plant 2

4.4.1 Field LNAPL Transmissivity Testing

In November 2012, nine wells were installed at Plant 2 (LMW-12-01 through LMW-12-08, and LMW-12-03D) to facilitate LNAPL transmissivity testing. The new wells were installed in areas where previous LIF screening results indicated the highest relative fluorescence responses, where fluorescence intensity is roughly proportionate to LNAPL saturation. Additionally, four existing wells in Plant 2 (PMW-01 through PMW-03, and P2-SB-37) and one existing well in Plant 3 (UNK-14) were targeted for LNAPL transmissivity testing.

4.4.2 Manual LNAPL Skimming

ARCADIS gauged fluid levels in all of the wells located within the extent of LNAPL impacts (as defined by LIF investigation activities) at Plant 2 on six occasions from November 2012 to February 2013 to monitor for LNAPL accumulation and determine whether field LNAPL transmissivity testing would be feasible; where a minimum in-well accumulation of 0.2 foot was established as a threshold value for determining whether transmissivity testing would provide useful data (consistent with recommendations in ASTM 2012). In February 2013, only 2 of the 13 wells contained sufficient LNAPL thickness accumulations (>0.2 foot) to facilitate LNAPL transmissivity testing (LMW-12-03D with 8.10 feet, and PMW-01 with 0.64 foot).

Manual LNAPL skimming tests were initiated in wells LMW-12-03D and PMW-01 on February 6, 2013. The manual LNAPL skimming test completed at well LMW-12-03D was analyzed in accordance with ASTM guidance (see Appendix J for details), yielding a transmissivity value of approximately 0.005 square feet per day (ft^2/day). The test completed at PMW-01 could not be analyzed using conventional manual skimming test analysis. Instead, fluid level data collected during the initial recharge monitoring step of the test was analyzed using the Cooper and Jacob (1946)/Jacob and Lohman (1952) baildown test analysis method provided in the API LNAPL Transmissivity Workbook (API 2012), which yielded an estimated LNAPL transmissivity of 0.01 ft^2/day .

The ITRC suggests LNAPL transmissivity range of 0.1 to 0.8 ft^2/day as a lower-bound threshold for practicable LNAPL recovery using hydraulic methods (ITRC 2009). Measured LNAPL transmissivity at wells LMW-12-03D and PMW-01 are at least an order of magnitude lower than this range, indicating that LNAPL is minimally recoverable at these wells. While LNAPL transmissivity could not be directly measured at 11 of the 13 wells located in Plant 2, the lack of LNAPL accumulation suggests that LNAPL transmissivity is very low and likely less than LNAPL transmissivity in wells that contained sufficient LNAPL to permit transmissivity testing. Additional detail regarding LNAPL transmissivity testing at Plant 2 is provided in Appendix J.

4.4.3 LNAPL Baildown Testing

A LNAPL baildown test was completed at well P2-SB-37 in October 2011. The baildown test was initiated using a 1.5-inch disposable bailer to remove LNAPL from the well while minimizing removal of water. After LNAPL removal was completed, fluid

levels within the well were measured to monitor LNAPL recharge. Fluid level measurements were initially collected at 30-second intervals using an electronic oil-water interface probe, and the interval between successive measurements was gradually increased over the course of the test as the rate of LNAPL discharge to the well decreased.

The LNAPL recovery response recorded following initiation of the baildown test at well P2-SB-37 could not be formally analyzed using the API workbook. LNAPL drawdown during the test appears to reverse to negative values after the initial 14 minutes of the test, which could be related to field measurement errors (a result of trying to quantify minimal changes in LNAPL accumulation over time), and ambient changes in equilibrium water table elevation during the test period. Qualitatively, as LNAPL thickness only recovered to approximately 54 percent of the initial (pre-test) gauged thickness over a 2-day period, the LNAPL transmissivity at P2-SB-37 is likely very low.

4.4.4 Field and Residual LNAPL Saturation Comparison

The degree of fluid saturation within porous media fundamentally controls the mobility of fluids within that media. In a soil system, soil pores beneath the water table are completely filled with groundwater, which facilitates groundwater flow in response to small groundwater gradients. Above the water table within the capillary fringe, the water saturation decreases in relation to the elevation above the groundwater table and the capillary properties of the soil. As the water saturation within the soil pores diminishes, connections between water-filled pores decrease to the point where the groundwater can no longer move laterally.

At a site with LNAPL impacts the relative saturations of three fluids, air, LNAPL, and groundwater, must be considered when evaluating fluid mobility. Of primary interest is the mobility of the LNAPL and the related fluid saturations where LNAPL is mobile or immobile. LNAPL is mobile where there is continuity between LNAPL-filled soil pores that allows for lateral LNAPL movement. The LNAPL saturation at which LNAPL is discontinuous to the extent that it cannot flow is termed residual saturation.

Soil core samples were collected using thin-walled steel tubes (Shelby tubes) advanced with a hydraulic piston sampler from four locations in Plant 2 during installation of wells LMW-12-03D, LMW-12-06, LMW-12-07, and LMW-12-08 in November 2012. Soil core sample locations and depth intervals were selected to target areas where the highest relative fluorescence response was observed during LIF investigation activities. Upon retrieval, soil core samples were capped and flash-frozen

in their in-situ vertical orientation using dry ice and shipped to PTS laboratory in Santa Fe Springs, California for laboratory analysis for petrophysical testing, including pore fluid saturations to determine site-specific data on field (initial) and residual LNAPL saturations by the following methods:

- *Free Product Mobility – Water Drive Method (FPM-WD), proprietary method by PTS and API RP40.* This method forces water through the subsample to displace free LNAPL. This method provides porosity, field LNAPL saturation and residual LNAPL saturation under saturated conditions, which is expected to be greater than residual saturation under unsaturated conditions. The test is conducted at hydraulic gradients that far exceed typical site conditions; hence, values for residual LNAPL saturation measured using this method will be conservative as compared to residual saturation under typical site conditions.
- *Free Product Mobility – Centrifuge Method (FPM-C), Methods API RP 40 and ASTM D425M.* This method utilizes centrifugal force (cores are spun at 1,000 times gravity) to displace free LNAPL and water in a subsample of the soil core with air, which provides the minimum residual saturation that could be expected in the subsurface under unsaturated conditions.

The fluid saturations are reported as the percentage of the soil porosity, or pore volume, that is occupied by the fluid (%Pv). The field LNAPL saturation value represents the LNAPL saturation under in situ conditions. When field saturation equals residual saturation, the LNAPL is immobile.

LNAPL field and residual saturations were measured at a total of seven sample intervals collected from four locations at Plant 2 (six FPM-C analyses and one FPM-WD analysis). Field saturations exceeded residual saturation in each of the samples analyzed, demonstrating that a fraction (approximately 1 to 28 percent) of the LNAPL in the samples analyzed is mobile. This finding indicates that LNAPL is mobile at the pore scale, but may not be migrating at the plume scale. Hydraulic gradient, aquifer permeability, and LNAPL viscosity are a few factors that influence whether the LNAPL above residual saturation is capable of migrating. The LNAPL pore velocity calculations described in the following section consider these additional factors.

4.4.5 LNAPL Velocity Potential

There is potential for LNAPL movement in the subsurface at the pore scale wherever measured field LNAPL saturations exceed residual. LNAPL seepage velocity was

calculated for each of the seven samples (four locations: LMW-12-06, LMW-12-07, and LMW-12-08 within the perched zone, and LMW-12-03D within the interbedded zone) where field saturation was greater than residual. LNAPL velocities calculated for laboratory-measured field saturations ranged from 2.2×10^{-8} to 6.0×10^{-7} centimeters per second (cm/s) in Plant 2.

ASTM suggests that LNAPL seepage velocities less than 1×10^{-6} cm/s indicate LNAPL in the formation is functionally immobile. Based on this criterion, LNAPL at Plant 2 is functionally immobile. Additional detail on LNAPL velocity potential calculations is provided in Appendix J.

4.4.6 LNAPL pore-entry pressure

LNAPL migration into pristine soils occurs when there is sufficient LNAPL head pressure present in the subsurface at the fringe of the LNAPL plume to displace groundwater from the soil pores. LNAPL head pressure was calculated as critical LNAPL thickness for comparison to LNAPL thickness accumulations in monitoring wells to determine whether there is a potential for future LNAPL migration.

The critical head pressure required for plume expansion expressed in LNAPL thickness ranges from 0.49 to 0.83 foot for locations near the perimeter of the LNAPL body at Plant 2 (LMW-12-06, LMW-12-07, and LMW-12-08) where soil cores were collected. LNAPL thicknesses measured between November 2012 and February 2013 at these monitoring wells ranged from non-existent to 0.1 foot. All of these measurements are well below the critical LNAPL thicknesses, indicating that there is no potential for further LNAPL plume expansion into unaffected soils at Plant 2.

4.5 Plant 3

4.5.1 Field LNAPL Transmissivity Testing

In November 2012, three new monitoring wells were installed at Plant 3 (LMW-12-09 through LMW-12-11) to facilitate LNAPL transmissivity testing. The new wells were installed in areas where previous LIF screening results indicated the highest relative fluorescence responses, where fluorescence intensity is roughly proportional to LNAPL saturation. Additionally, one existing well in Plant 3 (UNK-14) was targeted for LNAPL transmissivity testing.

4.5.2 Manual LNAPL Skimming

ARCADIS gauged fluid levels in all of the wells located within the extent of LNAPL impacts (as defined by LIF investigation activities) at Plant 3 on six occasions from November 2012 to February 2013 to monitor for LNAPL accumulation and determine whether field LNAPL transmissivity testing would be feasible; where a minimum in-well accumulation of 0.2 foot was established as a threshold value for determining whether transmissivity testing would provide useful data (consistent with recommendations in ASTM 2012). In February 2013, only 2 of the 13 wells contained sufficient LNAPL thickness accumulations (>0.2 foot) to facilitate LNAPL transmissivity testing (LMW-12-10 with 0.32 foot, and UNK-14 with 0.90 foot).

LNAPL manual skim testing was completed in February 2013 in each of the monitoring wells where greater than 0.2 foot of LNAPL was identified (LMW-12-10 and UNK-14). Manual LNAPL skimming tests initiated at LMW-12-10 and UNK-14 could not be analyzed quantitatively. Calculated LNAPL drawdown values for the manual skimming test at LMW-12-10 were in the negative range, which could be related to field measurement errors (a result of trying to quantify minimal changes in LNAPL accumulation over time) or ambient changes in equilibrium water table elevation during the test period. Based on the observed LNAPL recharge rates observed (<0.03 gallons per day), the LNAPL transmissivity at LMW-12-10 is likely very low. The test at UNK-14 was discontinued after approximately 2 days due to surface water ponding in the area (UNK-14 is a flush mount well). Data collected over the initial 2 days of testing indicated little to no measurable LNAPL recharge after initiating the test. Estimates of LNAPL transmissivity at UNK-14 from a baildown test completed in October 2011 indicated an LNAPL transmissivity of approximately $0.01 \text{ ft}^2/\text{day}$, confirming that LNAPL is minimally recoverable at this location.

4.5.3 LNAPL Baildown Testing

A LNAPL baildown test was completed at well UNK-14 in October 2011. The baildown test was initiated using a 1.5-inch disposable bailer to remove LNAPL from the well while minimizing removal of water. After LNAPL removal was completed, fluid levels within the well were measured to monitor LNAPL recharge. Fluid level measurements were initially collected at one-minute intervals using an electronic oil-water interface probe, and the interval between successive measurements was gradually increased over the course of the test as the rate of LNAPL discharge to the well decreased.

LNAPL baildown test data collected from well UNK-14 were analyzed using Bouwer and Rice (1976)/Bouwer (1989) method, resulting in an estimated transmissivity value of 0.01 ft²/day. Early-time data, representative of discharge from filter pack materials, were excluded from the dataset to ensure that LNAPL transmissivity estimates were representative of LNAPL conditions in the formation. Additional details on the data collection and analysis are included in Appendix J.

4.5.4 Field and Residual LNAPL Saturation Comparison

LNAPL field and residual saturations were measured at a total of three sample intervals collected from two locations at Plant 3 (one FPM-C analysis at LMW-12-09 and two FPM-WD analyses at LMW-12-10). Field saturation exceeded residual saturation at one location (LMW-12-09); however, both sample intervals at LMW-12-10 were at residual saturation.

4.5.5 LNAPL Velocity Potential

LNAPL seepage velocity was calculated at one location (LMW-12-09) within the interbedded zone at Plant 3 where field saturation was greater than residual. LNAPL velocity at laboratory-measured field saturation for LMW-12-09 was calculated as 9.4×10^{-8} cm/s. There was no calculated pore velocity at LMW-12-10 because field saturations and residual saturations were equal meaning that LNAPL at this location is immobile.

ASTM suggests that LNAPL seepage velocities less than 1×10^{-6} cm/s indicate LNAPL in the formation is functionally immobile. Based on this criterion, LNAPL at Plant 3 is functionally immobile. Additional detail on LNAPL velocity potential calculations is provided in Appendix J.

4.5.6 LNAPL pore-entry pressure

LNAPL migration into pristine soils occurs when there is sufficient LNAPL head pressure present in the subsurface at the fringe of the LNAPL plume to displace groundwater from the soil pores. LNAPL head pressure was calculated as critical LNAPL thickness for comparison to LNAPL thickness accumulations in monitoring wells to determine whether there is a potential for future LNAPL migration.

The critical head pressure required for plume expansion expressed in LNAPL thickness is 0.5 foot for locations near the perimeter of the LNAPL body (LMW-12-09 and LMW-

12-10) where soil cores were collected. LNAPL thicknesses measured between November 2012 and February 2013 at these monitoring wells ranged from non-existent to 0.32 foot (see Table J-5). All of these measurements are below the critical LNAPL thicknesses, indicating that there is no potential for further LNAPL plume expansion into unaffected soils at Plant 3.

4.6 Plant 6 Stormceptor LNAPL

The stormceptor spill control structure ESC-2, located south of Area 7, was initially assessed during the November 2012 storm sewer sampling event to determine if a sample could be collected. Upon inspection, a free-phase liquid consisting of a viscous, brown LNAPL was observed within the stormceptor structure. The location of ESC-2 is included on Figure 14. The ESC-2 stormceptor, one of three installed at Plant 6, is designed to remove sediment and potential oil from stormwater runoff. Stormceptor ESC-3 is located west of the tracks in Area 9, and ESC-1 is/was located near the Plant 6 entrance, but to date has not been located.

A sample of the ESC-2 LNAPL was collected on January 14, 2013 and submitted to DPRA/Zymax Forensics laboratory located in Escondido California, for fuel fingerprint analysis. The laboratory report for the sample is included as Appendix J. The Zymax analysis indicates the LNAPL consists of hydraulic oil or motor oil. There were no gasoline or diesel range organics detected within the sample.

In February 2013, the ESC-2 and ESC-3 stormceptors were cleaned out with oversight provide by PM Environmental of Lansing, Michigan. LNAPL thickness measurements prior to cleanout indicated 0.05 foot of LNAPL was present at ESC-2 and sheen was observed at ESC-3. Approximately 9,600-gallons of liquid and sludge was removed from ESC-2 and 2,000 gallons of liquid/sludge was removed from ESC-3. The waste was characterized as non-hazardous and disposed of at a licensed waste treatment facility (Schultz Inc., Lansing). Following the cleanout, periodic monitoring has indicated that there is no LNAPL collecting within the stormceptors.

In addition, New-Pig® LNAPL pillows were placed in four storm sewer structures located upgradient of ESC-2. The pillows are hydrophobic and LNAPL-phyllic, and thus an indicator of LNAPL flowing into the storm sewer. The purpose of the pillows was to determine whether LNAPL was entering the storm sewer, and if so, what section of the storm sewer was receiving LNAPL. To date, LNAPL has not been observed to collect on the pillows.

Based on the observed viscosity and composition of the LNAPL (hydraulic or motor oil) the LNAPL is unlikely to be mobile in the subsurface. In addition, LNAPL has not been observed at ESC-2 since the stormceptor cleanout, or in the upgradient storm sewer structures. Therefore, it is possible that the LNAPL observed within ESC-2 is the result of a one-time release into the storm sewer, possibly during the Plant 6 demolition activities. RACER will continue to monitor ESC-2 and the upgradient structures for LNAPL accumulation during quarterly monitoring activities until such time as MDEQ agrees that further monitoring is no longer necessary.

In addition, based on the sheen observed in ESC-3, RACER will add the outfall from this stormceptor to the storm sewer monitoring plan to verify COCs are not exiting the Site at this location above GSI Criteria.

4.7 Site-wide Soil Data Discussion

One of the primary goals of the RFI Phase 2 activities was to characterize and define potential COC source masses in soil. In general, if soil impacts above RBSLs were detected in an investigation area, step-out soil borings were completed until the extent of the potential source mass was delineated. Exceptions to this approach generally include when impacts in one area merge with an adjacent area with borings adequate for the delineation.

The following discussion provides a summary of the soil sampling results, highlights potential exposure pathways, and identifies data needs. The specific detail for each investigation area, investigation sequence, and overall results for each area are provided on Table 2. Soil boring locations are provided on Figures 15 and 16, and sampling results for the various soil COCs are presented on Figures 17, 18, and 21. MVS model figures are included in Appendix I and MVS model output is attached as Appendix B.

4.7.1 Delineation

In general, potential source areas for VOCs or SVOCs in soil are defined on-site or at the property boundary. Specific on-site exceedances for soil RBSLs are outlined in Section 4.7.2. The following section discusses metals as an exception as there are several areas of the Site where metals exceed generic RBSLs at the property boundary.

4.7.1.1 Metals

As outlined in the *RFI Work Plan, Phase 2* (ARCADIS 2012a), the characterization of metals was focused on areas where metals were expected to present a relevant exposure pathway or act as a source of groundwater impacts. Metals were the main focus in several areas of the Site such as Area 14 (the former plating facility at Plant 3), and the “lead in soil” area located in Area 5-6, as well as Areas 16, 19, and 21. Figure 21 provides an annotated overview of metals detected above RBSLs across the Site. There are five main investigation areas with metals in soil above criteria:

1. Northern Plant 3 near the former plating area (Area 14)
2. Southwestern Plant 3 in and around the “coliseum”
3. Southeastern Plant 3 (Area 16) in an area with fill material
4. Central Plants 2 and 6, generally consistent with VOC impacts at the Site
5. Southern Plant 6 (Areas 6 and 7). Of the metals in soil, the most widespread with exceedances of RBSLs are arsenic, cobalt, manganese, selenium, and silver across the Site.

In addition, the former plating area at Plant 3 (Area 14) has historically had elevated concentrations of arsenic, nickel, copper, and chromium. Several investigations have been completed in Area 14 and are discussed in detail in the CCR (ARCADIS 2008). An MVS model for this area is provided in Appendix B, and 3D figures are provided in Appendix I. Sampling in this area during various investigations (including this RFI) has speciated chromium to determine whether hexavalent chromium is present. The results of chromium sampling indicate hexavalent chromium is only present in a small portion of Area 14 in both soil (one sample) and perched water (two samples), in an area located beneath a quality concrete slab. These results are shown on Figure 26. Based on this result, the total chromium values at Plant 3, including unspicated data are compared to chromium III criteria.

As a corrective measure for the Site, RACER will propose a deed restriction on the installation and use of potable wells, eliminating exposure via ingestion to groundwater impacts within the perched zone, making the soil protective of drinking water pathway incomplete at the Site; however, this pathway will be potentially complete for groundwater migrating off site. For metals in soil above DWP or GSIP Criteria at the

property boundary, co-located groundwater samples were evaluated as an indication of the potential for off-site migration. In two areas (Areas 7 and 16), metals were detected at or beyond the property boundary in perched water above RBSLs. For these areas, RACER will complete additional work to define metals off site to generic criteria. Groundwater exceedances for metals are discussed below in Section 4.8.

There are several areas around the perimeter of the Site where metals exceed either DWP or GSIP Criteria. These areas include:

- Plant 2, Western – Cobalt was detected above DWP and GSIP Criteria in the northwest corner of Plant 2 (MW-12-02). However, this sample was collected at a depth of 64 to 65 feet below grade, and cobalt was not detected in a groundwater sample collected from this well; therefore, the DW and GSI pathways are not a concern for cobalt.
- Plant 2, Area 4 – Selenium is detected off site above GSIP Criteria, but not detected above RBSLs in groundwater at this location (SB-A4-MX47). Therefore, the GSI pathway is not a concern for selenium at this location
- Plant 3, Northern (Areas 14, 17, and 18) – Arsenic has been detected at the east and west Plant 3 property boundaries (primarily historical sample locations) above the DWP Criteria. RACER will complete additional work at the Plant 3 property boundaries to delineate arsenic in soil.
- Plant 3, Southwestern– Manganese was detected above GSIP Criteria at the property boundary (P3-SB-32). Manganese has not been detected above GSI Criteria in storm sewer samples collected in this area. Therefore, the GSI pathway is not a concern for manganese at this location.
- Plant 3, Area 16 – Selenium and zinc have also been detected above GSIP Criteria in soil at the perimeter of Area 16, but did not exceed RBSLs in groundwater samples in the area or in the storm sewer samples collected in this area. Therefore, the GSI pathway is not a concern for selenium or zinc at this location
- Plant 3, Area 16 – Arsenic has been detected above DWP Criteria at the southeast perimeter of Area 16, as well as detected in groundwater samples above DW Criteria (SB-A16-HU178, SB-A16-IE168). Additional work will be

completed to delineate arsenic in groundwater at or beyond the Plant 3 property boundary.

- Plant 6, Area 9 – Selenium has been detected above GSIP Criteria along the southern property boundary in historical soil borings, but not detected in groundwater samples from nearby monitoring well MWBP-10-UST5-6. Therefore, the GSI pathway is not a concern for selenium at this location
- Plant 6, Area 5-8 – Selenium and mercury (at one location) has been detected along the eastern Plant 6 property boundary above the GSIP Criteria. Selenium or mercury has not been detected in groundwater samples collected in this area (P6-SB-18, MW-12-13, P6-SB-37, MW-12-12) nor in storm sewer samples. Therefore, the GSI pathway is not a concern for selenium or mercury at this location.

4.7.2 Soil Screening Criteria Evaluation

As noted previously, areas with impacts to soil in excess of DWP Criteria will be managed with a site-wide restriction of groundwater use. A number of areas at the Site have existing deed restrictions that serve as exposure controls. These deed restrictions are outlined in the CCR (ARCADIS 2008), as well as in the *Exposure Pathway Analysis for RACER Lansing Plants 2, 3 and 6* included as Appendix F. In addition, preliminary results of the storm sewer sampling indicate that concentrations of COCs are not leaving the Site at levels that would result in an exceedance at the discharge point to the Grand River. Therefore, the following discussion will only highlight those areas that will require additional corrective measures beyond groundwater use restriction.

In addition, Site data were evaluated against residential criteria to determine if the potential exists for off-site receptors to be adversely affected.

Cross-sections for many of the areas discussed below, as well as MVS 3D screenshot figures displaying analytical results, are included as Appendices C and I, respectively.

- Groundwater Contact Protection (GCP) Criteria - Soil impacts leaching to shallow groundwater and subsequent groundwater contact for subsurface activities:

- Area 7 – Xylenes exceed the GCP criteria at one location (SB-A7-TB220) at a depth of 9 to 10 ft bgs.
- Area 9 – Ethylbenzene and xylenes exceed the GCP criteria at P6-SB-41 at a depth of 8 to 9 ft bgs and anthracene exceeds the GCP at SB-A9-RP205 at a depth of 2 to 3 ft bgs.

The GCP criteria for ethylbenzene and xylenes default to the Csat (Saturation Screening) levels. NAPL has not been observed in Areas 7 or 9, and the concentrations of xylenes and ethylbenzene do not exceed the calculated RBSLs for GCP. Therefore, the GC pathway is not a concern for xylenes and ethylbenzene.

In addition, the GC pathway is not a concern for off-site receptors as the exceedances are limited to on-site locations, concentrations do not exceed the RBSLs for GCP, and concentrations of constituents in groundwater do not exceed the GC criteria in this area of the Site.

- Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC) - Inhalation of volatile constituents migrating from soil to indoor air (of future buildings):
 - Area 2 – Benzene exceeds the SVIIC at one location (SB-A2-PC76) at depths of 17 to 18 and 23 to 24 ft bgs.
 - Area 5-2 - 1,1-DCE exceeds the SVIIC at one location (SB-A5.2-OC107A) at a depth of 8 to 9 ft bgs. CVOC impacts in area 5-2 are associated with the Plant 2 LNAPL impacts.
 - Area 5-3 – 1,1-DCE exceeds the SVIIC at one location (SB-A5.3-PA159) at 9 to 10 ft bgs.
 - Area 5-7 – Trichloroethylene (TCE) exceeds the SVIIC at one location (VAP-5.7-ML243) at a depth of 11 to 12 ft bgs. This location is in the “parking lot exceedance area”, north of the benzene, toluene, ethylbenzene, and xylenes (BTEX) impacts.
 - Area 7 – Xylenes exceed the SVIIC at one location (SB-A7-TB220) at a depth of 9 to 10 ft bgs.

- Area 9 – Ethylbenzene and xylenes exceed the SVIIC at one location (P6-SB-41) at 8 to 9 ft bgs.
- Area 11 – 1,1-DCE exceeds the SVIIC at one location (VAP-A11-HE24) at a depth of 3 to 4 ft bgs.
- Area 17 – Benzene exceeds the SVIIC at one location (SB-A17-EC147) at a depth of 13 to 14 ft bgs. The BTEX impacts in this area are associated with the Plant 3 LNAPL .

The SVIIC for ethylbenzene and xylenes default to the Csat (Saturation Screening) levels. NAPL have not been observed in Areas 7 or 9, and the concentrations of xylenes and ethylbenzene do not exceed the calculated RBSLs for SVIIC.

Conditions on-site are not expected to adversely affect off-site receptors. The only exceedances of the Residential SVIIC within 100 feet of the property boundaries are xylenes in Area 7. Soil gas samples collected adjacent to this exceedance did not contain VOCs at concentrations exceeding the draft residential Sub-slab Soil Gas Concentrations for Vapor Intrusion.

- Volatile Soil Inhalation Criteria (VSIC) - Inhalation of volatile constituents in the ambient air emanating from impacted soils (based on a 100-acre source area as previously agreed upon by the MDEQ and ARCADIS, based on the size of each of the plants):
 - Area 5-2 – Phenanthrene exceeds the VSIC at one location (SB-A5.2-NE157) at 3 to 4 ft bgs.
 - Area 15 – 1,2-Dibromo-3-chloropropane exceeds the VSIC at one location (P3-SB-26) at 11 to 12 ft bgs. This exceedance is located under a quality concrete pad.
 - Area 5-7 – TCE exceeds the VSIC at one location (VAP-5.7-ML243) at 11 to 12 ft bgs.
 - Area 9 – Phenanthrene exceeds the VSIC at one location (SB-A9-RP205) at a depth of 2 to 3 ft bgs.

Due to the limited number of samples that exceed VSIC criteria (one or two samples for each of the three COCs), the concentrations were also compared to generic criteria calculated for a ½-acre source area (Table 3 of Operational Memorandum No. 1; MDEQ 2007). The concentrations of the three COCs did not exceed the generic Infinite Source VSIC for a ½-acre source area and therefore, are not likely to be a concern for the Site.

Conditions on the Site are not expected to adversely affect off-site receptors for this volatile soil inhalation (VSI) pathway. Concentrations of benzene, 1,1-DCE, 1,2-dibromo-3-chloropropane, phenanthrene, and TCE exceeded the Residential Infinite Source VSIC in limited locations (one to two locations per plant). Due to the limited number of exceedances, and the locations (more than 200 feet from the property boundaries), these exceedances are not likely to pose a concern for off-site receptors.

- Particulate Soil Inhalation Criteria (PSIC, based on a 100-acre source area) – Inhalation of constituents in impacted fugitive dust. These criteria would only be applicable for subsurface soil if it is brought to the surface, or exposed during construction activities. Therefore, the exceedances deeper than 30 ft bgs are not likely to be a concern for the Site, as construction activities are not likely to extend beyond that depth.
 - Nickel exceeds the PSIC in four historical soil boring locations in Area 14 at depths between 1 and 15 ft bgs. The area of exceedances is less than ½ acre, and the maximum detected concentration (12,000 milligrams per kilogram [mg/kg]) does not exceed the PSIC for a ½-acre source area (16,000 mg/kg). Therefore, nickel is not a concern for the ambient air pathway in Area 14.

Nickel also exceeds the residential PSIC in Area 14; however, the exceedances are not likely to adversely affect off-site receptors. The nickel exceedances are located within a ½-acre area and do not exceed the residential PSIC for a ½-acre source area (13,000 mg/kg). The total chromium exceedances are currently located under a quality concrete pad.

Manganese exceeds the PSIC in shallow soils in the following investigation areas and locations:

- Area 2 – Two locations - P2-SB-31 at 1 to 2 ft bgs and SB-A2-PD65 at 9 to 10 ft bgs.
- Between Areas 4 and 5-1 – One location (P2-SB-35) at a depth of 2 to 3 ft bgs.
- Area 5-2 – Two locations: SB-A5.2-NG127 at a depth of 2 to 3 ft bgs and SB-A5.2-OB120 at a depth of 26 to 27 ft bgs.
- Area 5-3 – Three locations: SB-A5.3-OC169 at 6 to 7 ft bgs, SB-A5.3-OQ175 at 1 to 2 ft bgs and SB-A5.3-OX123 at 1-2 ft bgs.
- Area 5-6 – One location (SB-A5.6-NX232) at 1-2 ft bgs.
- Area 5-8 – Two historical locations: SA 11-1 at 3-5 ft bgs and SA 11-5 at 0.7 to 2.7 ft bgs.
- Area 10 – One historical location (SA 7-7) at 9 to 11 ft bgs.
- Area 16 – One location (SB-A16-HD162) at 8 to 9 ft bgs.
- Area 20 – One location (P3-SB-13) at a depth of 17 to 18 ft bgs.

Additional evaluation was completed to better understand potential hazards associated with manganese detected at concentrations greater than the PSIC based on the hypothetical 100-acre source area.

The emission source area was defined based on the area encompassed by half the distance to the nearest soil borings that did not exceed the 100-acre PSIC. Added together, the total emission source area is approximately 157,000 square feet (ft²), or 3.6 acres. Therefore, the 5-acre source area modifier of 0.66 was used to adjust the generic criteria and re-screen the data that exceeded the 100-acre source area criteria. The following summarizes exceedances of the adjusted PSIC criteria for manganese of 990 mg/kg.

- Area 2 – One location (SB-A2-PD65) at 9 to 10 ft bgs.
- Area 5-2 – One location (SB-A5.2-NG127) at 2 to 3 ft bgs.

- Area 5-3 – One location (SB-A5.3-OX123) at 1 to 2 ft bgs.
- Area 5-8 – One location (SA 11-5) at 0.7 to 2.7 ft bgs. The exceedance in Area 5-8 is currently located under a quality concrete slab.
- Area 20 – One location (P3-SB-13) at 17 to 18 ft bgs.

Two of these locations (Areas 2 and 5-2) exceed the residential PSIC for manganese; however, due to the very limited and well-defined areas of exceedances and the distances to the nearest property boundaries, they are not likely to be a concern for off-site receptors.

- Direct Contact –, direct contact with impacted soil, including dermal contact and incidental ingestion:
 - LNAPL Areas (Areas 5-2 and 17) – DC criteria exceedances beyond what are outlined below for Areas 5-2 and 17 are expected in the LNAPL impacted areas.
 - Area 2 – Arsenic exceeds DC criteria at one location (SB-A2-PA65) at 1 to 2 ft bgs.
 - Area 5-1 – SVOCs (Benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene) exceed DC criteria at SB-A5.1-MT126 at 1 to 2 ft bgs, and SVOCs (benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, and dibenzo(a,h)anthracene) exceed the criteria at VAP-A5.1-MT115 at 4 to 5 ft bgs. These exceedances are located under a quality concrete pad.
 - Area 5-2 – Benzo(a)pyrene exceeds DC criteria at two locations SB-A5.2-NE157 at 3 to 4 ft bgs and SB-A5.2-OG162 at 0 to 1 ft bgs, PCBs (Aroclor 1242) exceeds the criteria at SB-A5.2-NW124 at 4 to 5 ft bgs; and lead exceeds the criteria at SB-A5.2-OG144 at 0-1 ft bgs.
 - Area 5-3 – Benzo(a)pyrene exceeds DC criteria at one location (SB-A5.3-OX123) at 1 to 2 ft bgs. This exceedance appears to be located under a quality concrete pad.

- Area 5-5 – Benzo(a)pyrene exceeds DC criteria at one location (P2-MW-04) at 1 to 3 ft bgs.
- Area 14 – Arsenic exceeds DC criteria at one historic location (13) at 43.5 to 45 ft bgs. Due to the depth of this exceedance, it is not likely to be encountered or brought to the surface in the future. Therefore, it is not likely a concern for the Site.
- Area 16 – Benzo(a)pyrene exceeds DC criteria at SB-A16-HU165 at 4 to 5 ft bgs, and lead exceeds at SB-A16-HU168 at 9 to 10 ft bgs.
- Area 18 – Benzo(a)pyrene exceeds DC criteria at a one location (SB-A18-CJ150) at 1 to 2 ft bgs.
- Area 19 – Arsenic exceeds DC criteria at three locations at (P3-SB-25, SB-A19-HJ148 and VAP-A19-HJ150) between 1 and 10 ft bgs. This exceedance is currently located under a quality concrete pad.
- Area 21 – Arsenic exceeds DC criteria at one location (P3-SB-27) at 4 to 5 ft bgs. This exceedance is currently located under a quality concrete pad.
- Area 5-6 – Lead exceeds DC criteria at a number of historical as well as RFI Phase 1 and 2 boring locations (SB-A5.6-NP224, SB-A5.6-NU227 and VAP-A5.6-NR227) at depths ranging from 1 to 7 feet below grade. This area is known as the “lead in soil” area.
- Area 7 – Xylenes exceed DC criteria at one boring location (SB-A7-TB220) at 9 to 10 ft bgs; and benzo(a)pyrene exceeds the criteria at one location (SB-A7-SX206) at 0 to 1 ft bgs.
- Area 9 – Ethylbenzene and xylenes exceed DC criteria at one location (P6-SB-41) at 8 to 9 ft bgs.

The DC criteria for ethylbenzene and xylenes default to the Csat (Saturation Screening) levels. NAPL has not been observed in Areas 7 or 9, and the concentrations of xylenes and ethylbenzene do not exceed the calculated risk-based screening levels for DC. Direct contact with soil is not a concern for off-site receptors, as soil impacts above the DC criteria are limited to on-site areas.

- Soil Saturation Screening Levels:
 - Area 7 – Xylenes exceed the screening levels at one location (SB-A7-TB220) at 9 to 10 ft bgs.
 - Area 9 – Ethylbenzene and xylenes exceed the screening levels at P6-SB-41 at 8 to 9 ft bgs.

As noted above, NAPL has not been observed in Areas 7 or 9.

Soil exceedances based on the applicable exposure pathways outlined above will be managed via additional site use restrictions and evaluated for further corrective action as part of the CMS. The areas of the Site that will require additional site use controls are highlighted on Figures 27 through 29 (Plants 2, 3, and 6, respectively). These figures illustrate areas with potentially complete exposure pathways and include remaining “quality” concrete pads the remaining at the Site. The quality pads have been determined by RACER as suitable for rebuilding. In many areas, the concrete pads also serve to limit exposure to soil impacts (e.g. Areas 5-2 and 14), as well as limit infiltration through impacted areas of the Site.

4.8 Site-Wide Perched Water and Bedrock Groundwater

One of the primary goals established for the RFI Phase 2 activities was to characterize and delineate the site-wide impacts to groundwater. The following section provides a summary of the groundwater sampling results, highlights exceedances of applicable criteria, and identifies additional data needs. The specific detail for each investigation area, investigation sequence, and overall results for each area are provided on Table 2. Groundwater sample locations are provided on Figures 15 and 16 and figures depicting the overall sampling results for groundwater are included as Figures 17 through 20, 22 and 23. MVS model figures are included in Appendix I and MVS model output is attached as Appendix B.

In general, the primary impacts to groundwater at the Site include VOCs, SVOCs, and 1,4-dioxane impacts associated with the LNAPL at Plant 2 (Area 5-2), VOCs and SVOCs associated with the LNAPL at Plant 3 (Area17), and several other localized hotspots for VOCs and SVOCs including Areas 2, 11, and 5-7. In addition, an area of 1,4-dioxane is present on the northwest portion of Plant 2 that has been attributed to

the former Adams Plating Facility located west of Rosemary Avenue. Additional detail regrading Adams Plating site is provided in Section 4.8.3.2.

Metals are prevalent in groundwater across the Site and are presented on Figures 22 and 23 for the perched zone and deep overburden/bedrock, respectively. Manganese in particular exceeds aesthetic-based DW Criteria in 80 percent of the groundwater samples collected at the Site. Due to the pervasive nature of manganese, delineation to aesthetic criteria is not practical within the perched zone. Figures 22 and 23 present the distribution of manganese in perched water and bedrock for reference; however, manganese is not discussed as part of the delineation and exposure pathway sections because of its widespread nature. Manganese exceedances in soil are generally more limited in extent than in groundwater and suggest that reducing conditions at the Site are responsible for leaching of the naturally occurring manganese in soil.

Arsenic, vanadium, and lead are also commonly detected above RBSLs in groundwater at the Site. The distribution of metals in groundwater (with the exception of manganese) is similar to the distribution of metals in soil, and includes four general areas: northern Plant 3 (Areas 14, 17, and 18), southeastern Plant 3 (Areas 15, 16, and 19), central Plants 2 and 6, and southern Plant 6 (Area 7).

As noted previously, the hydraulic communication between the perched zone and bedrock aquifer is generally limited. At Plants 2 and 6, impacts primarily occur within the perched zone; separated from the bedrock aquifer by the glacial till and a layer of deep dry overburden. At Plant 3, the lack of an interbedded zone and occurrence of metals in the deep overburden aquifer beneath the former plating area (Area 14) suggest some leakage may occur through the till. Details regarding impacts to the deep overburden and bedrock are provided below, and include:

- Plant 6 bedrock – Metals and low-level CVOCs in bedrock at Plant 6 (MW-04-06, historical MW-04-04[6])
- Plant 3 deep overburden/bedrock - Vinyl chloride at Plant 3 at two sets of nested wells
- Plant 3 deep overburden - 1,4-dioxane in deep overburden at Plant 3 (MW-12-21 / VAP-A17-DE144)
- Plant 3 deep overburden - Metals in deep overburden at Plant 3 (MW-91-2, MW-02-04, MW-04-04[3])

4.8.1 Delineation

The extent of COC impacts within the perched zone at Plants 2, 3 and 6 are delineated on site with a few exceptions:

- Plant 6, Area 7: The extent of metals including lead and arsenic south of Area 7 are not defined to generic RBSLs. RACER will complete additional work to define the extent of metals in groundwater south of Plant 6.
- Plant 3, Area 16: The extent of arsenic and selenium in groundwater southwest of Area 16 are not defined to generic RBSLs between Area 16 and the southeastern Plant 3 property boundary.
- Plant 6, Southeast: Copper exceeds GSI Criteria at MW-12-14 in the southeast corner of Plant 6. Monitoring well MW-12-14 is installed at a depth of 25 to 30 ft bgs, and copper is not a concern for the GSI pathway at this location.
- Plant 6, Area 5-8: Vanadium exceeds DW Criteria at P6-SB-35 located 200 feet from the eastern property boundary. Additional sampling at P6-SB-35 will confirm whether work is required to delineate vanadium at the property boundary. In addition, vanadium and/or lead exceed DW Criteria in total metals samples collected at MW-12-12 and P6-SB-37. These metals did not exceed in filtered samples (dissolved metals). Follow-up sampling will focus on reducing turbidity to determine if these metals required additional delineation.
- Plant 6, Area 5-7: Arsenic was detected in a VAP sample collected at SB-A5.7-MC272 at a concentration above DW Criteria. However, follow-up sampling at a co-located monitoring well (MW-12-11) did not exceed RBSLs for arsenic or other COCs.

The extent of COC impacts in the deep overburden and bedrock are limited compared to the perched zone; however, in a few areas COCs have been detected in the deep units above DW Criteria:

- Plant 6, Area 5-7: Bedrock well MW-04-06: MW-04-06 is located near the Plant 6 property boundary in Area 5-7. Based on the December 2012 sampling event, lead is present at a concentration of 0.005 mg/L, nominally exceeding the DW Criteria of 0.004 mg/L, but less than the USEPA standard of 0.015 mg/L. In addition, vinyl chloride and other VOCs have been detected at this location below DW Criteria and the bis(2-Ethylhexyl)phthalate has been detected just

above the DW Criteria. Prior to January 2013, bis(2-Ethylhexyl)phthalate had not been detected at this well location.

Bedrock well MW-04-06 was installed in 2004 and constructed with polyvinyl chloride casing and 10-foot screen set at a total depth of 98 ft bgs. Bedrock was encountered at 47 ft bgs. During the December 2012 and January 2013 sampling events, a blockage was noted within the well that prevents a pump from reaching the total depth indicating the well casing may be compromised. Based on the potentially compromised well casing, COCs detected at this well may be related to a leaking well casing rather than actual impacts to the bedrock aquifer. RACER will propose to abandon MW-04-06 and replace well with a new bedrock well adjacent to the present location.

- Plant 6, Area 5-6: Bedrock well MW-04-04 was installed and sampled in 2004 at Plant 6, but has not been located as part of the RFI activities and is presumed destroyed. The 2004 groundwater sample indicates several metals were detected above DW Criteria including arsenic, beryllium, total chromium, cobalt, lead, manganese, nickel, and vanadium. As the bedrock well is not available for re-sampling, RACER will propose to replace MW-04-04 with new bedrock well adjacent to the former location.
- Other metals in bedrock and deep overburden: Metals in the deep overburden and bedrock aquifers are summarized on Figure 22. Three bedrock wells (MW - 91-4, MW-12-04, MW-12-02) have historically or recently had arsenic concentrations detected at or just above the DW Criteria (0.010 mg/L). During the December 2012 sampling event, all three of these wells were between 0.010 and 0.011 mg/L for arsenic. It is possible that arsenic is naturally elevated within the bedrock in this area. In addition, vanadium has been detected above DW Criteria at MW-12-06 and MW-04-01(6) at Plants 2 and 6 (respectively) and appears to be related to sample turbidity (filtered samples did not exceed at these locations). Additional sampling will be completed at these locations and an effort made to reduce the turbidity of the sample.
- Plant 3, Area 14: Metals exceeding DW Criteria have been sporadically detected in deep overburden wells north of the former plating area including arsenic, lead, total chromium and nickel (MW-19, MW-02-04, MW-23 and MW-04-04). Due to the proximity of the plating area, these metals may be related in part to the former operations at the Site. However, exceedances at MW-19 and MW-04-04 are in part due to elevated sample turbidity (filtered samples do not exceeds DW

criteria for several metals). The result at the northern Plant 3 property boundary (MW-04-04) suggests the metals are not defined north of the Site. Additional sampling will be completed at these locations with an effort made to reduce the turbidity of the sample. If continued monitoring indicates the potential for off-site migration, RACER will propose additional work to delineate groundwater impacts in the deep overburden.

- Plant 3: 1,4-dioxane has been detected at deep overburden monitoring well MW-12-21 up to 480 µg/L at Area 11, adjacent to a large basement structure known as the "Coliseum". While VOCs, including 1,4-dioxane, have been identified and delineated in the shallow perched zone at this location, attempts to perform VAP sampling in the deep overburden at this location were unsuccessful due to the low-yield silt formation present at depth. Monitoring well MW-12-21 was installed within the silt zone in an effort to verify deep impacts within this area.

Based on the lithology noted at borings completed within the Coliseum, the glacial till appears to have been excavated out as part of the Plant 3 construction activities. This preferential pathway through the glacial till may have allowed for the vertical migration of 1,4-dioxane to the deep overburden. The extent of 1,4-dioxane within the deep overburden is currently unknown. However, 1,4-dioxane has not been detected in any of the site bedrock monitoring wells. Additional work will be completed in March and-April 2013 to delineate the extent of 1,4-dioxane impacts at this location. The results will be presented in an addendum to the RFI report.

- Plant 3: 1,4-dioxane was detected in a VAP sample at VAP-A17-DE144 at a depth of 63 to 64 ft bgs within the deep overburden at Area 17 at a concentration of 11 µg/L. 1,4-dioxane is not detected in the perched water in this area and has not been detected in the deep overburden monitoring wells within this area. In particular, monitoring well MW-19, located approximately 16 feet south of VAP-A17-DE144 and installed at a depth of 55 to 65 ft bgs, did not detect 1,4-dioxane above the laboratory detection limit of 5 µg/L. Based on the results of the deep monitoring wells and the sampling result at monitoring well MW-19, the extent of 1,4-dioxane within the overburden appears to be limited and has not been confirmed through monitoring well sampling.
- Plant 3: Vinyl chloride above DW Criteria, as well as other CVOCs, has been detected at two nested well locations (deep overburden and bedrock) in the northwestern portion of Plant 3. Nested wells included MW-04-02/MW-04-03

(bedrock/deep overburden) at the western Plant 3 property boundary, and at wells MW-91-4/MW-04-04 near the northern property boundary. These wells are located within the bedrock valley, as described in Section 2.2.2 and presented on Figure 4.

To date, a significant source of vinyl chloride has not been identified at Plant 3. Vinyl chloride in bedrock is well documented in the Lansing Area and is attributed to several industrial facilities located northeast of Plant 3. It is therefore possible that the vinyl chloride noted at Plant 3 in bedrock is related to an off-site source. Potential off-site sources are discussed in Section 4.8.3.1 and presented on Figure 30.

Data needs at Plants 3 and 6, including the 1,4-dioxane in deep overburden at Area 11, off-site metals in Area 7 and 16, and metals in bedrock at Plant 6, will be addressed during follow-up work completed in 2013. Additional investigation activities will be summarized and provide to the MDEQ as an addendum to this RFI.

Continued monitoring of groundwater is warranted to evaluate 1,4-dioxane plume stability and verify the occurrence of metals in deep overburden and bedrock wells. Recent sampling for metals in groundwater has shown sensitivity to turbidity, which has resulted in several wells showing concentrations below criteria when prior results were above criteria. Most of the remaining exceedances related to metals are slightly over the criteria, suggesting that additional sampling is warranted to verify whether metals are a concern at the Site. Continued monitoring will be performed concurrent with the RFI review and development of the CMS.

4.8.1.1 Utility Corridor Migration

Investigation areas located near the Site perimeters and with groundwater impacts above generic RBSLs were reviewed to determine whether existing utility corridors could potentially provide a preferential pathway for groundwater impacts to migrate off site. Site drawings depicting the locations of existing utilities were compared to figures showing the locations of the known soil and groundwater impacts at each of the plants. The assessment focused on areas with groundwater impacts located near property boundaries. A complete summary of the findings, as well as figures depicting each of the investigation areas reviewed as part of the study, are included as an attachment to *the RFI Phase 2, Delineation Stage Scope of Work* (ARCADIS 2012c).

Based on the review, two utility corridors appear to provide a possible pathway for impacted groundwater to migrate off site. In Area 7, the storm sewer that passes through a former UST cavity near the property boundary and exits the Site into the W. Michigan Avenue right-of-way (ROW). The invert depth of the storm sewer is approximately 10.5 ft bgs. Several previous borings straddle the storm sewer line as it exits the Site (e.g. SB-A7-SZ209 and P6-SB-33) and did not indicate migration was occurring within the corridor. An additional boring (SB-A7-TD212) was completed within the W. Michigan Avenue right-of way (ROW), south of the ESC-2 stormceptor before the storm line intersects the W. Michigan Avenue main line.

In Area 2, a storm sewer intersects the area of soil and groundwater impacts on a north-south line before connecting to an east-west line south of this area and exiting the Site. The invert depth of the storm sewer was measured to be 15 ft bgs. In addition, a sanitary sewer line in this area travels east to west, south of Area 2 and then turns north following Rosemary Avenue towards Saginaw Avenue. The invert depth of the sanitary sewer is approximately 8 ft bgs. Two borings (SB-A2-PM54 and SB-A2-PQ53) were completed adjacent to the storm and sanitary lines (respectively) as the approach the Plant 2 Site boundary south of Area 2, and three borings (SB-A2-PC52, SB-A2-OY52, and SB-A2-OU52) were completed along the property boundary between the Investigation Area 2 impacts and the Rosemary ROW.

In each area, the sewers were first located with ground penetrating radar and then a hand auger boring was completed to a depth consistent with the sewer invert depth. Soil and groundwater samples were collected at depths consistent with the invert depth, and several feet below the invert depth, and submitted for analysis of VOCs, SVOCs, and metals. Results of the sampling are as follows:

- South of Area 2 - Groundwater was not encountered at the borings completed adjacent to the utility corridors south of Area 2, and soil samples were below RBSLs for all COCs.
- West of Area 2 – Groundwater was not encountered at a depth consistent with the sanitary sewer invert depths, which, based on the sewer depth to the south, is expected to be less than 15 ft bgs. Groundwater collected from soil borings and MW-12-18 at a depth of 28 to 33 ft bgs exceeded DW Criteria for nickel.
- Area 7 - A groundwater sample was collected at SB-A7-TD212 at a depth of 11 to 15 ft bgs. All VOCs and SVOCs were below RBSLs. Metals vanadium and manganese were detected above the DW Criteria.

Based on the results of the utility corridor evaluation, most of the impacted areas around the perimeter of the Site do not present a risk for off-site migration of impacted groundwater. In Area 2, sampling indicated that COCs do not migrate to or within the utility corridors. In Area 7, metals may migrate within the corridor, but are already present off site at this location. Additional work will be completed south of Area 7 to delineate metals. Based on a request from the MDEQ, additional work will be completed on site to evaluate the possible migration of impacted groundwater to the interior of the Site where “very large or deep” utility corridors are present. A brief description of the work is provided below.

4.8.2 Groundwater Screening Criteria Evaluation

Groundwater impacts have been delineated to the most restrictive generic RBSLs on site, except where noted above. As a corrective measure for the Site, RACER will propose a deed restriction on the installation and use of potable wells at the Site, eliminating exposure via ingestion of impacted groundwater within the perched zone. In addition, sampling of the storm sewers has indicated limited exposure risk associated with the GSI pathway. Therefore, the following sections will focus on applicable criteria exposure pathways (outlined in Section 3 and provided in detail in Appendix F) that may require additional corrective measures.

Cross-sections for many of the areas referenced below, as well as MVS screenshot figures are included as Appendices C and I, respectively.

- Groundwater Contact - Direct contact with shallow groundwater (construction and utility workers only)
 - Area 5-2 - PCBs (Aroclor-1242) were detected above GC Criteria in three groundwater samples associated with the Plant 2 LNAPL plume. The samples were collected at depths ranging from 4 to 22 ft bgs. In addition, chrysene was detected above GC Criteria 8 to 9 ft bgs. .

These exceedances are not expected to be a concern for off-site receptors as they are delineated to Area 5-2 and are not located near the property boundaries.

- Groundwater Volatilization to Indoor Air Inhalation Criteria (GVIIC) - Inhalation of volatile constituents volatilizing from groundwater and migrating to indoor air (of future buildings)

- Area 5-2 - The maximum detected concentration of PCBs exceeds the Nonresidential GVIIC (VAP-A5.2-NV119 (8 to 9 ft bgs). The groundwater sample at this location was noted as potentially containing some portion of LNAPL entrained in the sample.

The only exceedances of the residential SVIIC were located within Area 5-2. These exceedances are not expected to be a concern for off-site receptors as they are delineated to Area 5-2 and are not located near the property boundaries.

- Nonresidential Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}):
 - Area 2 – Benzene and isopropyl benzene exceed GW_{VI-nr} on the eastern side of Area 2 at a depth of 10 to 14 ft bgs.
 - Area 5-2 – PCBs (Aroclor 1242) exceed the GW_{VI-nr} at 8 to 9 and 20 to 22 ft bgs at VAP-A5.2-NV119. The groundwater sample at this location was noted as potentially containing some portion of LNAPL entrained in the sample.
 - Area 17 – Benzene exceeds GW_{VI-nr} at depths ranging from 1 to 8.5 ft bgs in this area, generally associated with the Plant 3 LNAPL plume.
 - Area 5-7 – Benzene exceeds GW_{VI-nr} at a depth of 3-8 ft bgs. This area is known as the “parking lot exceedance” area (AOI 6-88) and did not have an historical AOI association prior to the RFI Phase 1 activities.
 - Area 9 – Isopropyl benzene, ethylbenzene and xylenes at depths ranging from 7 to 12 ft bgs.

The only exceedance of the residential draft Groundwater Concentrations for Vapor Intrusion (GW_{VI-res}) located within 100 feet of the property boundaries was PCE in Area 2, approximately 60 feet from the property boundary. Samples collected from the monitoring well located at the property boundary (MW-12-18) did not exceed the GW_{VI-res} , and the nearest residence is located more than 100 feet away. Therefore, this exceedance does not likely pose a concern for off-site receptors. In addition, soil gas samples collected in Area 2 did not contain VOCs

at concentrations exceeding the draft Residential Soil Gas Concentrations for Vapor Intrusion.

- Water Solubility Levels – Typically indicates presence of free-phase product:
 - Area 5-2 – PCBs (Aroclor 1242) and chrysene exceed water solubility levels at sample VAP-A5.2-NV119 (8 to 9 ft bgs). The groundwater sample at this location was noted as potentially containing some portion of LNAPL entrained in the sample.
- Flammability and Explosivity Screening Levels
 - Area 9 – Xylenes exceed the FESL at VAP-A9-RR209 (7 to 8 ft bgs). Located beneath the former painting area of the Site, this perched zone appears isolated and xylenes are defined in soil surrounding the groundwater sample.
- Acute Inhalation Screening Levels - The maximum detected concentrations of the COCs in groundwater at the Site did not exceed the Acute Inhalation Screening Levels.

In general, investigation areas with impacts to groundwater in excess of DW Criteria will be managed with a site-wide restriction of groundwater use. In addition, a number of areas at the Site have existing deed restrictions that serve as exposure controls. These deed restrictions are outlined in the CCR (ARCADIS 2008), as well as in the *Exposure Pathway Analysis for RACER Lansing Plants 2, 3 and 6* included as Appendix F. Groundwater exceedances based on the applicable exposure pathways outlined above will be managed via additional site use restrictions, and evaluated further as part of the CMS.

The areas of the Site outlined above that will require additional site use controls are highlighted on Figures 27 through 29 (Plants 2, 3, and 6, respectively). These figures illustrate areas with potentially complete exposure pathways and include remaining “quality” concrete pads the remaining at the Site. The quality pads have been determined by RACER as suitable for rebuilding. In many areas, the concrete pads also serve to limit exposure to groundwater impacts (e.g. Area 5-2 and Area 14), as well as limit additional recharge through impacted areas of the Site.

4.8.3 Offsite Sources of Groundwater Impacts

There are several facilities in the vicinity of the Site that are sources of impact to both the overburden and bedrock aquifers. Off-site sources of impacts, municipal wells impacts with vinyl chloride, and the bedrock topography are presented on Figure 30.

4.8.3.1 Vinyl Chloride

Historical vinyl chloride impacts to the Saginaw-Grand River bedrock aquifer are well documented in the Lansing area and have been responsible for shutting down a number of municipal water supply wells. Northeast of Plant 3, there are four known facilities with vinyl chloride contamination. Two municipal water supply wells (BWL #10-11 and 10-15) northeast of the Site were taken offline in the 1980s due to vinyl chloride impacts. The potential sources of vinyl chloride, the two municipal wells, and the deep overburden and bedrock wells at Plant 3 impacted with vinyl chloride (MW-04-02/MW-04-03 and MW-91-4/MW-04-04) are aligned with the bedrock valley described in Section 2.2.2. While current bedrock potentiometric data suggest groundwater flow in bedrock at the Site is northerly at Plant 3, historical operation of Lansing municipal wells along the bedrock valley would have strongly influenced flow conditions, likely reinforcing flow from the northeast. The off-site sources northeast of Plant 3, impacted wells, and bedrock topography are provided as Figure 30. Off-site sources of vinyl chloride include the following:

- **Former Waste Disposal Facility:** A facility located at 1401 Lake Lansing Road, approximately 2.5 miles northeast of Plant 3, was used for industrial waste disposal from 1938 to 1971. Although commercial operations discontinued in 1987, remedial action did not begin until 1997. Waste is still present on the Site and vinyl chloride is present in the bedrock aquifer. Remediation at the Site is ongoing and includes a bedrock pump-and-treat system. A USGS groundwater flow model (USGS Rpt 97-569) for the facility area suggests groundwater flow in bedrock is to the west-northwest from the facility, generally toward the well field located northeast of Plant 3.
- **Former Chemical Manufacturing Facility:** The facility was located at 1800 Glenrose Avenue, 4,200 feet northeast of Plant 3, was used to manufacture chemicals from 1922 to 1984. Commercial operations were discontinued in 1985, and all structures and storage tanks were removed from the Site. The site currently operates a pump-and-treat system in bedrock and has noted vinyl chloride at concentrations up to 150 µg/L. Groundwater contour and plume

maps for the Site indicate a southwesterly groundwater flow direction in the bedrock.

- **Former Tool Manufacturing Facility:** The facility, located at 1818 Bassett Street, 2,600 feet northeast of Plant 3, has indicated vinyl chloride impacts in overburden. At the time of the file review, no information was available with regards to deep overburden or bedrock impacts at this facility.
- **Former Heat Treating Facility:** Located adjacent to the northeast Plant 3 property boundary and currently used for shingle recycling. Previous site investigations indicate vinyl chloride is present generally between 10 and 30 ft bgs at concentrations between 5 and 40 µg/L. Bedrock at the Site is encountered between 65 and 70 ft bgs and the deep overburden is saturated at this location consistent with observations at Plant 3. As of 2007, vinyl chloride has not been detected in the 10 deep overburden monitoring wells at this location. Groundwater elevation within the deep overburden at this site indicated a northwest gradient similar to Plant 3.

4.8.3.2 1,4-Dioxane

West of Plant 2, the Adams Plating Company (APC) site was formally located at 521 Rosemary Avenue. APC operated as a dry cleaner prior to 1964, and then as an electroplating facility until it was destroyed by fire in December 2010. Adams Plating Company was placed on the USEPA National Priorities List in 1989. Groundwater impacts associated with the APC facility include 1,4-dioxane, CVOs and vinyl chloride. Monitoring wells associated with the APC facility were sampled by RACER on September 17, 2012 and submitted for VOC analysis. The analytical results indicate monitoring well MW-9D, installed near the former APC building, had a 1,4-dioxane concentration of 1,300 µg/L. APC wells located east and north of MW-9D are also impacted with 1,4-dioxane. The analytical data for the APC wells is included on Table 13 and on figures associated with this report (wells noted with "APC" prefix). Based on the location of the APC facility and the apparent northerly and easterly direction of contaminant migration, impacts on the northwestern portion of Plant 2 (e.g. P2-MW-03) may be due, in part, to the APC release.

4.9 Soil Gas Screening Criteria Evaluation

There are several areas of the Site that have indicated VOC soil impacts in excess of the SVIIC and VOC groundwater impacts in excess of the draft GW_{VI-nr}. Most of these

areas are located interior to the Site and will be managed with engineering controls and deed restriction. Two of the areas (Area 2 and Area 7) are located relatively close to Site property boundaries and were evaluated further to determine if a potential for off-site soil gas migration exists. Area 2, located on the western portion of Plant 2, has SVIIC exceedances for benzene and GW_{V-I-nr} exceedances for benzene and isopropyl benzene. Area 7, located on the southern part of Plant 6, has SVIIC exceedances for xylenes. The location of the soil gas samples are provided on Figure 15.

In each area, two temporary soil gas probes were advanced adjacent to the soil borings that exhibited the SVIIC exceedances. These exceedances included SB-A2-PC76 in Area 2, and SB-A7-TB220 in Area 7. The temporary probes were advanced with a direct-push drilling rig to a depth of to 5 feet or to a depth consistent with the unsaturated fill material located beneath the concrete slabs. Soil gas samples were then extracted from the sealed probe using a 1-liter SUMMA canister and submitted for analysis of VOCs. The results of the soil gas sampling are provided on Table 19.

A comparison of the soil gas sample results to the MDEQ Draft Residential Sub-Slab Soil Gas Concentrations for Vapor Intrusion indicates that in general the soil gas results are orders of magnitude below the screening levels. None of the soil gas samples had COC concentrations above the screening levels.

5. Summary/Conclusions

The majority of the AOIs on-Site have been delineated and the goals of the RFI have largely been met. Figure ES-1 summarizes the lateral extents of soil, groundwater, and LNAPL impacts. The areas where additional characterization is required to address data needs are highlighted in specific figures referenced above. The following conventions are used to highlight affected media and provide quick reference to findings that are discussed in this section:

- Soil impacts are shaded with orange where VOCs and SVOCs are the drivers; light blue shading shows the areas where metals impacts occur.
- Groundwater impacts are shaded with pink for VOCs and SVOCs; dark blue shaded areas are affected by metals;
- LNAPL impacts are shown with orange hatching.

The areas where these impacts could lead to potential exposure or where restrictions might be required are also highlighted.

- The composite areas where groundwater exceeds drinking water criteria is included within the pink and dark blue areas;
- Relevant exposure pathways are highlighted using colored boxes to show a conservative estimate of the areas that are affected. The areas are color coded by potential exposure pathway.

Based on the results of the RFI outlined above, the on-Site impacts associated with the Site can be managed with deed restrictions and engineering controls or land use restrictions, consistent with the current and planned non-residential land use. A summary of the findings and recommendations by AOI is provided in Table 2. A detailed review of the potential corrective measures appropriate for the Site will be provided as the CMS report in June 2013. Based on the CSMmodel and overall goals and objectives outlined for the RFI Phase 2 (Section 1.2.2), key findings of the RFI are as follows:

- General Hydrogeologic Setting: There are three water-bearing zones at the Site: 1) the perched water, typically occurring within the fill, interbedded zone, or occasionally within the glacial till, 2) the deep overburden aquifer with a water table at 65 to 70 ft bgs (Plant 3 only), 3) bedrock aquifer encountered at depths ranging from 55 to 110 ft bgs beneath the Site.
 - Source zones are isolated within the shallow perched water and the majority groundwater impacts are contained within the perched water zone.
 - There is very limited hydraulic communication between the perched zone and bedrock aquifer at Plants 2 and 6, as evidenced by the thick vadose zone between the glacial till and the bedrock aquifer, and general lack of bedrock groundwater impacts beneath heavily impacted areas of the Site (e.g. Area 2 and Plant 2 LNAPL). There are several areas with metals detected above RBSLs in bedrock at Plant 6, but it is unclear to what extent those metals are related to previous site operations. Additional work will be completed to assess metals in bedrock at Plant 6, as outlined below.

- Communication between the perched zones and the deep overburden/bedrock aquifers at Plant 3 is also limited. The perched zone at Plant 3 is thinner and separated from the deep overburden aquifer by a thick vadose zone. However, metals and 1,4-dioxane have been detected beneath the former plating area (Areas 14, 17 and 18) suggesting some leakage does occur through the till in the central portion of the Plant. In addition, impacts occur to the deep overburden where the glacial till has been removed such as the 1,4-dioxane impacts beneath the “coliseum” in the southwestern portion of Plant 3.
- Vinyl Chloride in Bedrock (northwestern Plant 3): Based on the general lack of a CVOC source at Plant 3 and the known regional vinyl chloride impacts to bedrock, the vinyl chloride identified at Plant 3 is attributed to off-site source(s). While current bedrock potentiometric data suggest groundwater flow to the northwest, historical operation of Lansing municipal wells along the bedrock valley would have strongly influenced flow conditions, likely reinforcing flow from the northeast.
- LNAPL (Area 5-2): LNAPL is present within the fill and interbedded zone in the central portion of Plant 2. The LNAPL consists of cutting oil that contains elevated concentrations of CVOCs, PCBs in some areas, as well as certain VOCs, and SVOCs. The lateral and vertical extents of the LNAPL plume and associated soil and groundwater impacts are defined; mobility and recoverability testing indicate the LNAPL plume is not migrating, with only a limited potential for recoverability based on ASTM (2006) and ITRC methods (ITRC 2009; State of Michigan 2012).
- LNAPL (Area 17): LNAPL is present within the shallow fill material in the north central portion of Plant 3 associated with a former UST farm. The LNAPL consists of gasoline with associated soil and groundwater impacts consisting primarily of BTEX. The lateral and vertical extents of the LNAPL and the associated soil and groundwater impacts are defined. Mobility and recoverability testing indicate the LNAPL plume is stable, with only a limited potential for recoverability.
- Hexavalent Chromium (Plant 3, Area 14): Hexavalent chromium in soil and groundwater are present in the former electroplating area in the north central portion of Plant 3 that exceeds RBSLs. The lateral and vertical extent of

hexavalent chromium is localized within the perched zone and other metals that have historically exceeded criteria in this area, including nickel and copper in soil and groundwater are defined.

- Site-wide Groundwater Conditions: In general, the primary impacts to groundwater at the Site include VOCs, SVOCs and 1,4-dioxane impacts associated with the LNAPL at Plant 2 (Area 5-2), VOCs and SVOCs associated with the LNAPL at Plant 3 (Area 17). Several localized hotspots for VOCs and SVOCs were encountered at certain locations throughout the Site (e.g. Area 2, Area 5-7, Area 7, Area 11 etc.). Metals are prevalent in perched and deep groundwater, including manganese above aesthetic-based DW Criteria in 80 percent of the groundwater samples collected at the Site. Arsenic, vanadium and lead are also commonly detected above RBSLs in groundwater at the Site particularly throughout the central portion of Plants 2 and 6, the southeastern portion of Plant 3 and the southern part of Plant 6.
 - A perched water plume, consisting chiefly of 1,4-dioxane, extends from west to east across Plant 2 onto Plant 6 within the perched water zone. Elevated concentrations of 1,4-dioxane and CVOCs are co-located with the LNAPL at Plant 2. The lateral and vertical extent of the plume is defined on Plant 2 and Plant 6 and does not extend off site above the proposed DW Criteria of 8.5 µg/L, nor has it been detected in the underlying bedrock aquifer.
 - Perched water impacts are defined on site with three exceptions: 1) Plant 6, Area 7 – lead, arsenic and vanadium in off-site wells, 2) Plant 3, Area 16 – arsenic in groundwater, 3) southeastern Plant 6 – copper in groundwater.
 - Groundwater impacts are primarily confined to the perched zones with four exceptions: 1) Plant 6 bedrock – metals above RBSLs, potentially related to well construction, 2) 1,4-dioxane in deep overburden at Plant 3 possibly related to removal of glacial till during plant construction, 3) metals in deep overburden at Plant 3, and 4) vinyl chloride in bedrock/deep overburden in northern Plant 3 (related to regional groundwater impacts as discussed above).
 - Continued monitoring of groundwater is warranted to evaluate 1,4-dioxane plume stability and verify the occurrence of metals in deep

overburden and bedrock wells. Recent sampling for metals in groundwater has shown sensitivity to turbidity, which has resulted in several wells showing below standard concentrations, when prior results were above criteria. Most of the remaining exceedances related to metals in bedrock and deep overburden are slightly over the standards, suggesting that additional sampling is warranted to verify whether metals are a concern, or are an artifact of sediment entrained in the samples. Continued monitoring will be performed concurrent with the RFI review and development of the CMS.

- Other Areas with Soil or Groundwater Impacts: There are a number of areas at the Site with VOC and SVOC impacts in soil and perched groundwater, all of which were delineated on-Site or defined at the Site boundaries. Investigation areas and a general description of the RFI results are provided on Table 2.
- There are a number of areas at the Site that exceed criteria beyond DW/DWP or GSI/GSIP, including GW_{VI-nr}, SVIIC, PSIC, and/or DC Criteria. These areas are presented on Figures 27 through 29 and will require additional engineering controls beyond groundwater use restriction. In some instances, the existing concrete slabs at the Site can be maintained to restrict access to the subsurface (e.g., over the LNAPL area at Plant 2 or the former plating area at Plant 3).

A detailed discussion of each AOI and potential corrective measures for each area will be provided as part of the CMS scheduled for completion in June 2013. Based on the nature of impacts observed at the Site and the expected future site use (Industrial or nonresidential), Restrictive Covenants will be proposed for the Site to the extent practicable to eliminate unacceptable exposures to soil and groundwater impacts. Land use will be restricted to nonresidential use, institutional controls (e.g. no use of groundwater) will be implemented, and engineering controls (i.e., vapor barriers on future buildings) will be required, as needed.

The concrete slabs that remain on-site (See Figure ES-1) provide several benefits in the short and long-term. The slabs limit infiltration in the areas affected by LNAPL and where soils exceed groundwater protection criteria at Plant 2 and Plant 3. There are several areas on Plant 2 and Plant 3 where the slabs are a barrier to direct contact as well as vapor and particulate inhalation. In the short-term, the reduction of infiltration will minimize plume migration. In the long-term, the slabs may provide a benefit in reducing potential exposure to the affected soils and LNAPL-affected areas. The pathway evaluation was completed based on potential exposure scenarios that did not

account for the presence of the slabs; however, during the CMS the benefits of the slabs will be factored into the remedy screening and selection process.

5.1 Areas Requiring Further Evaluation

Based on the results of the RFI, there are several areas that will require additional investigation to adequately characterize or delineate COCs:

- Northern Plant 3 (Areas 14, 17 and 18): Arsenic has been detected at the east and west Plant 3 property boundaries (historical sample locations) above the DWP Criteria. Additional work will be completed by RACER to define the extent of arsenic in soil at the Plant 3 property boundary.
- Plant 3, Area 16: The extent of arsenic in groundwater southwest of Area 16 is not defined to generic RBSLs between Area 16 and the southeastern Plant 3 property boundary. RACER will complete additional work in this area to define arsenic in groundwater.
- Plant 3, Deep Overburden (Area 11): 1,4-dioxane has been detected at deep overburden above DW Criteria in Area 11. RACER will complete additional work in March 2013 to characterize and define the extent of 1,4-dioxane impacts in deep overburden.
- Plant 3, Deep Overburden: Metals have been detected in the deep overburden aquifer at Plant 3 (MW-19, MW-02-04, MW-23 and MW-04-04). Based on the occurrence of metals (arsenic, lead, and nickel) in near surface soils near the former plating area (Area 14), metals in deep overburden may be related to former site operations. Additional sampling will be completed at these locations to verify the elevated metals with an emphasis on low turbidity sample collection.
- Plant 6, Area 7: The extent of metals including lead, arsenic and vanadium south of Area 7 are not defined in groundwater to generic RBSLs. RACER will propose to complete additional sampling off site to define metals exceedances in groundwater.
- Plant 6, Area 5-8: Vanadium exceeds DW Criteria at P6-SB-35 located 200 feet from the eastern property boundary. Additional sampling at P6-SB-35 will confirm whether work is required to delineate vanadium at the property boundary.

- Plant 6, Bedrock Metals: Metals above DW Criteria have been detected at Plant 6 in existing bedrock wells MW-04-06 (lead and SVOC bis(2-ethylhexyl)phthalate) and historical MW-04-04(4) (arsenic, beryllium, total chromium, cobalt, lead, manganese, nickel, and vanadium). Impacts at these wells may be related to well construction and RACER will propose to abandon and/or replace these wells in order to verify the metals results in bedrock

In addition, several issues related to potential preferred migration associated with storm sewers and utility corridors are currently being evaluated:

- Storm Sewer Monitoring: Although storm sewer sampling has initially indicated impacts to the storm sewer are minimal, monitoring will continue through the implementation of the CMS to verify this condition.
- Plant 6 Stormceptor ESC-2: Following the January 2013 cleanout of the stormceptor, monitoring of LNAPL within the stormceptor and upgradient storm structures have not shown presence of LNAPL. Monitoring will continue through the implementation of the CMS to verify this condition.
- Additional utility corridor sampling: Additional sampling will be completed in March 2013 adjacent to large utility corridors interior to the Site to evaluate if groundwater infiltration is causing preferred migration of site-related COCs in utility corridors. Monitoring will continue through the implementation of the CMS to verify this condition.

Data needs and evaluations at Plants 3 and 6 will be addressed during follow-up work completed in 2013 in parallel with the MDEQ's review of the RFI. Additional investigation activities and results of the ongoing utility evaluation will be summarized as an addendum to this RFI.

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Tables

TABLE 1
RFI Phase 2 Summary Report
RACER Plants 2, 3 and 6
Summary of Constituents of Concern (COCs)

Compound	Water (µg/L)			Soil (µg/kg)			Designated Analytical Methods (4)
	Target Detection	Laboratory	Laboratory	Target Detection	Laboratory	Laboratory	
	Limit ⁽¹⁾	MDL ⁽²⁾	PQL ⁽²⁾	Limit ⁽¹⁾	MDL ⁽²⁾	PQL ⁽²⁾	
Volatiles							Volatiles (See Op. Memo 2, Attachment 6)
Acetone	50	4.0	25	1000	126	750	8260 B
Benzene	1	0.1	1	50	4.6	50	8260 B
Bromodichloromethane	1	0.2	1	100	4.8	50	8260 B
Bromoform	1	0.2	1	100	7	50	8260 B
Bromomethane	5	0.4	2	{200}	12.6	250	8260 B
2-Butanone	25	1.4	25	750	53.6	750	8260 B
Carbon Disulfide	5	0.1	5	250	9.6	250	8260 B
Carbon Tetrachloride	1	0.1	1	50	2.8	50	8260 B
Chlorobenzene	1	0.1	1	50	3.1	50	8260 B
Chloroethane	5	0.2	1	250	11.3	250	8260 B
Chloroform	1	0.1	1	50	5.3	50	8260 B
Chloromethane	5	0.2	1	250	6.1	250	8260 B
Cyclohexane	NA	0.1	1	NA	5.7	50	8260 B
Dibromochloromethane	5	0.2	1	100	7.5	50	8260 B
1,2-Dibromo-3-chloropropane (Dibromochloropropane)	0.2 ⁽³⁾	0.1	TBD	{10} ⁽³⁾	28	50	8260 B
1,2-Dibromomethane (Ethylene dibromide)	0.05 ⁽³⁾	0.2	TBD	{20}	3.0	50	8260 B
Dichlorodifluoromethane	5	0.3	TBD	250	9.0	50	8260 B
1,2-Dichlorobenzene	1	0.1	1	100	7.7	50	8260 B
1,3-Dichlorobenzene	1	0.1	1	100	7.3	50	8260 B
1,4-Dichlorobenzene	1	0.1	1	100	6.1	50	8260 B
1,1-Dichloroethane	1	0.1	1	50	4.9	50	8260 B
1,2-Dichloroethane	1	0.2	1	50	11.0	50	8260 B
1,1-Dichloroethene	1	0.1	1	50	7.6	50	8260 B
cis-1,2-Dichloroethene	1	0.1	1	50	3.6	50	8260 B
trans-1,2-Dichloroethene	1	0.1	TBD	50	6.3	50	8260 B
1,2-Dichloropropane	1	0.1	1	50	7	50	8260 B
cis-1,3-Dichloropropene	1	0.1	1	50	2.6	50	8260 B
trans-1,3-Dichloropropene	1	0.1	1	50	5.6	50	8260 B
1,4-Dioxane ⁽⁵⁾	5	1.0	1	500	500.0	500	8260 B
Ethylbenzene	1	0.1	1	50	3.1	50	8260 B
2-Hexanone	50	0.3	50	2500	17	2500	8260 B
Isopropylbenzene	5	0.1	TBD	250	4.4	50	8260 B
Methyl Acetate	NA	0.3	10	NA	35.1	2500	8260 B
Methyl Cyclohexane	NA	0.2	20	NA	6	50	8260 B
4-Methyl-2-pentanone	50	0.1	50	2500	11.2	2500	8260 B
Methyl tert-butyl ether (MTBE)	5	0.2	5	250	6.0	250	8260 B
Methylene Chloride	5	0.2	5	{100}	7.9	250	8260 B
Styrene	1	0.1	1	50	4.0	50	8260 B
1,1,2,2-Tetrachloroethane	1.0	0.2	1	50	8.2	50	8260 B
Tetrachloroethene	1	0.1	1	50	25.7	50	8260 B
Toluene	1	0.1	1	100	3.5	50	8260 B
1,1,1-Trichloroethane	1	0.1	1	50	3.8	50	8260 B
1,1,2-Trichloroethane	1	0.2	1	50	8.2	50	8260 B
Trichloroethene	1	0.2	1	50	9.1	50	8260 B
1,2,4-Trichlorobenzene	5	0.2	2	330	8	100	8260 B
Trichlorofluoromethane	1	0.1	20	100	7.1	100	8260 B
Trifluorotrichloroethane (Freon 113)	NA	0.3	30	NA	12	100	8260 B
Vinyl Chloride	1.0	0.2	1	40	6.7	100	8260 B
m&p-Xylene	2	0.1	1	100	5.3	50	8260 B
o-Xylene	1	0.1	1	50	3.4	50	8260 B
Xylenes (total)	3	0.5	3	150	18.2	100	8260 B

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Compound	Water (µg/L)			Soil (µg/kg)			Designated Analytical Methods (4)
	Target Detection	Laboratory	Laboratory	Target Detection	Laboratory	Laboratory	
	Limit ⁽¹⁾	MDL ⁽²⁾	PQL ⁽²⁾	Limit ⁽¹⁾	MDL ⁽²⁾	PQL ⁽²⁾	
Semivolatiles							Semivolatiles
Acenaphthene	5	0.1	5	330	2	330	8270 C
Acenaphthylene	5	0.4	5	330	1	330	8270 C
Acetophenone	5	0.1	5	330	3	330	8270 C
Anthracene	5	0.1	5	330	2	330	8270 C
Atrazine	3.0	0.1	3	50	3	330	8270 C
1,1-Biphenyl	NA	0.04	5	NA	1	330	8270 C
Benzaldehyde	NA	0.1	5	NA	2	330	8270 C
Benzo(a)anthracene	1.0	0.1	1	330	2	330	8270 C
Benzo(a)pyrene	[1]	0.1	2	330	3	330	8270 C
Benzo(b)fluoranthene	1 ⁽⁴⁾	0.1	2	330	3	330	8270 C
Benzo(g,h,i)perylene	[1]	0.07	5	330	11	330	8270 C
Benzo(k)fluoranthene	[1]	0.1	5	330	4	330	8270 C
bis(2-Chloroethoxy)methane	5	0.1	5	330	2	330	8270 C
bis(2-Chloroethyl)ether	1.0	0.1	1	100	2	330	8270 C
bis(2-Ethylhexyl)phthalate	5	0.2	5	330	7	330	8270 C
4-Bromophenyl-phenylether	5	0.1	5	330	5	330	8270 C
Butylbenzylphthalate	5	0.2	5	330	8	330	8270 C
Caprolactam	10	0.3	10	330	11	330	8270 C
Carbazole	[10]	0.1	10	330	4	330	8270 C
4-Chloro-3-Methylphenol	5	0.1	5	280	4	330	8270 C
4-Chloroaniline	10	0.1	20	330	4	670	8270 C
2-Chloronaphthalene	5	0.1	5	330	2	330	8270 C
2-Chlorophenol	10	0.1	5	330	3	330	8270 C
4-Chlorophenyl-phenylether	5	0.03	5	330	1	330	8270 C
2,2'-oxybis(1-Chloropropane)							
[bis(2-Chloroisopropyl) ether]	5	2.3	5	330	78	330	8270 C
Chrysene	1.0	0.1	5	330	3	330	8270 C
2-Methylphenol	10	0.1	5	330	3	330	8270 C
3-Methylphenol	10	0.2	5	330	6	330	8270 C
4-Methylphenol	10	0.2	5	330	6	330	8270 C
Di-n-Butylphthalate	5	0.1	5	330	3	330	8270 C
Di-n-Octylphthalate	5	0.2	5	330	7	330	8270 C
Dibenzo(a,h)anthracene	[2]	0.08	2	330	10	330	8270 C
Dibenzofuran	4	0.1	5	330	3	330	8270 C
3,3'-Dichlorobenzidine	[0.3]	0.7	20	[2000]	23	670	8270 C
2,4-Dichlorophenol	10	0.1	10	330	4	330	8270 C
Diethylphthalate	5	0.1	5	330	3	330	8270 C
Dimethylphthalate	5	0.1	5	330	3	330	8270 C
2,4-Dimethylphenol	5	0.1	5	330	4	330	8270 C
4,6-Dinitro-2-methylphenol	[20]	1.1	20	[830]	37	670	8270 C
2,4-Dinitrophenol	25	0.1	20	830	4	670	8270 C
2,4-Dinitrotoluene	5	0.2	5	330	7	330	8270 C
2,6-Dinitrotoluene	5	0.1	5	330	3	330	8270 C
Fluoranthene	1	0.1	5	330	4	330	8270 C
Fluorene	5	0.1	5	330	2	330	8270 C
Hexachlorobenzene	0.2 ⁽³⁾	0.2	5	330	6	330	8270 C - (SIM)
Hexachlorobutadiene	0.05 ⁽³⁾	0.1	5	50	3	330	8270 C - (SIM)
Hexachlorocyclopentadiene	5.0	0.2	5	330	8	330	8270 C
Hexachloroethane	5	0.1	5	300	4	330	8270 C
Indeno(1,2,3-cd)pyrene	[2]	0.08	2	330	10	330	8270 C
Isophorone	5	0.1	5	330	3	330	8270 C
2-Methylnaphthalene	5	0.1	5	330	2	330	8270 C
Naphthalene	5	0.1	5	330	2	330	8270 C
2-Nitroaniline	25	0.2	20	830	6	670	8270 C
3-Nitroaniline	25	0.1	20	830	4	670	8270 C
4-Nitroaniline	25	0.2	20	830	6	670	8270 C
Nitrobenzene	3	0.1	2	330	3	170	8270 C
2-Nitrophenol	5	0.1	5	330	5	330	8270 C
4-Nitrophenol	25	0.4	20	830	14	670	8270 C
N-Nitroso-di-n-propylamine	[5]	0.1	5	[330]	2	330	8270 C
N-Nitrosodiphenylamine	5	0.4	5	330	4	330	8270 C
Pentachlorophenol	1 ⁽³⁾	0.1	20	20 ⁽³⁾	2	670	8270 C
Phenanthrene	2.0	0.1	5	330	2	330	8270 C
Phenol	5	0.1	5	330	2	330	8270 C
Pyrene	5	0.04	5	330	10	330	8270 C
2,4,5-Trichlorophenol	5	0.2	5	330	6	330	8270 C
2,4,6-Trichlorophenol	4	0.1	5	330	5	330	8270 C

TABLE 1
RFI Phase 2 Summary Report
RACER Plants 2, 3 and 6
Summary of Constituents of Concern (COCs)

Compound	Water (µg/L)			Soil (µg/kg)			Designated Analytical Methods (4)
	Target Detection	Laboratory	Laboratory	Target Detection	Laboratory	Laboratory	
	Limit ⁽¹⁾	MDL ⁽²⁾	PQL ⁽²⁾	Limit ⁽¹⁾	MDL ⁽²⁾	PQL ⁽²⁾	
Metals							Metals
Antimony	2	1.0	2	[300]	20	300	SW-846 Methods 6000 & 7000
Arsenic	5	0.31	2	100	62	100	SW-846 Methods 6000 & 7000
Barium	100	0.1	10	1000	20	1000	SW-846 Methods 6000 & 7000
Beryllium	[1]	0.1	1	500	20	100	SW-846 Methods 6000 & 7000
Boron	10	2	50	2000	80	2000	SW-846 Methods 6000 & 7000
Cadmium	1	0.14	0.5	200	27	50	SW-846 Methods 6000 & 7000
Chromium	10	0.076	5	2000	15	500	Cr(VI): Soil 3060A/7199; Water 7199
Cobalt	20	0.069	5	500	14	500	SW-846 Methods 6000 & 7000
Copper	4	0.079	10	1000	16	1000	SW-846 Methods 6000 & 7000
Cyanide	NA	4	5	100 ⁽³⁾	80	100	EPA Method 335.4
Lead	3	0.024	3.0	1000	5	1000	See MDEQ Lab SOP #213
Manganese	50	0.012	5	1000	2	500	SW-846 Methods 6000 & 7000
Mercury	NA	0.006	NA	[50]	0.3	100	7000 series
Low-Level Mercury	0.001 ⁽³⁾	0.000473	0.0005	NA	NA	NA	1631
Nickel	20	0.01	5	1000	19	500	SW-846 Methods 6000 & 7000
Selenium	5	0.6	5	200	120	200	SW-846 Methods 6000 & 7000
Silver	[0.2]	0.073	0.5	[100]	15	200	SW-846 Methods 6000 & 7000
Thallium	2.0	0.066	1	500	13	100	SW-846 Methods 6000 & 7000
Vanadium	4	0.044	5	1000	9	500	SW-846 Methods 6000 & 7000
Zinc	50	0.25	10	1000	49	1000	SW-846 Methods 6000 & 7000
PCB's	0.2	.01	.01	330	0.2	330	8082 8270C

NOTES:

NA Not available/Not applicable
MDL Method Detection Limit
PQL Practical Quantitation Level
TBD To be determined

{ } For volatile organics, target detection limits (TDLs) enclosed with { } brackets indicate that the low level soil method may be required to reach a risk-based criteria. Check with the laboratory to determine if risk-based criteria can be reached for methanol-preserved samples, to determine if the low level method must be used

[] The TDLs in bold type and enclosed with [] brackets indicate that the contaminant's TDL is higher than the most restrictive criteria.

(1) The TDLs for groundwater and soil are based on the TDLs defined in Michigan Department of Environmental Quality (MDEQ) Remediation and Redevelopment Division Memorandum No. 2 (February 2, 2005).

(2) The MDLs and PQLs listed are current as of March 2005 and may differ slightly during future data reporting.

(3) In some instances, the TDL is below the MDL, indicating that the MDEQ TDL is not currently achievable by the lab. If it is necessary to achieve the TDL, a selective ion mass spectrometry (SIM) test can be performed.

(4) Target Detection Limits and Designated Analytical Methods are based on MDEQ RRD Operational Memo No. 2 - Attachment 1, dated October 22, 2004.

(5) When analyses of these compounds are requested using GC/MS, SIM analyses must be conducted on all samples with no detects found in the full scan. Positive detects in the SIM mode should then be appropriately coded to indicate SIM analyses were conducted.

TABLE 2
RFI Phase 2 Summary Report
RACER Plants 2, 3 and 6
Investigation Summary Matrix

Investigation Area	Subarea	Associated AOI	AOI Summary	RFI Phase 1 Investigation	RFI Phase 2 Investigation Sequence/Results	Constituents of Concern > PART 201 RBSLs								Summary of Exceedances	Potential Corrective Measures	
						VOCs				Metals						
						CVOCs	BTEX	1,4-Dioxane	Other VOCs	SVOCs	PCBs	CrVI	Other			
AREA 1	NA	AOI 2-16	Two 20,000-gallon tanks that stored gasoline and diesel east of Building 250. One 1,500-gallon tank that stored used oil located southeast of Building 250. One 12,000-gallon tank that stored heating oil located west of Building 250. All USTs removed in 1990 and 1991. Closure report submitted on 10/01/1996. Restrictive Covenant filed with Register of Deeds in 2003.	Phase 1 Scope: Collected samples from monitoring wells MW-01(2), MW-02(2), and MW-03(2). Results: MTBE detected below MDEQ RBSLs. Copper and manganese detected above DWC and/or GSI Criteria in two of the three samples.	I. Assessment Scope: Based on Phase 1 results, four step-out soil borings were completed to a depth of 25 ft bgs around MW-01(2) to assess low-level VOCs and metals in soil and groundwater. Soil samples were collected at approximate 10 ft intervals through vadose zone based on field screening results. Groundwater samples were collected from saturated permeable zones (if encountered). One HPT/VAP boring was completed to 50 ft bgs to characterize the stratigraphy and define groundwater impacts vertically. Results: VOCs detected in soil below RBSLs. VOCs detected in groundwater exceeding RBSLs. VOC, SVOC and metal exceedances delineated vertically. II. Characterization Scope: Three additional step-out soil borings completed, two north of the area and one to the west, to 20 ft bgs to delineate soil and groundwater impacts horizontally. Soil sampled at approximate 5 ft intervals based on field screening. Groundwater samples collected from saturated permeable zones (if encountered). Results: VOCs, SVOCs, and metals in soil and groundwater delineated horizontally. III. Delineation Scope: One monitoring well installed and sampled north of Area to provide a permanent monitoring point for delineation of groundwater impacts. Results: Sampling of the four permanent monitoring wells indicates no exceedances of RBSLs.		X				X			X	SOIL: SVOCs > GSIP Metals > DWP & GSIP GW: VOCs & SVOCs > GSI Metals > DW & GSI NOTES: Soil and groundwater impacts defined on-site both vertically and horizontally. COCs not detected in Plant 2 storm sewer samples above GSI criteria.	1) Restrict potable use of groundwater on-site.
AREA 2	NA	AOI 2-12 AOI 2-52 AOI ID 2-26	Empty 55-gallon drums generated from facility operations.	Phase 1 Scope: Soil boring P2-SB-31 was advanced to 10 ft bgs, samples collected at highest PID reading interval and deepest interval. Results: No VOCs detected. SVOCs detected at 1-2 ft bgs, ND at 9-10 ft bgs. No exceedances of RBSLs. Cobalt and manganese detected above Soil DWP and GSIP Criteria in both samples.	I. Assessment Scope: Based on Phase 1 results, four step-out soil borings were completed to a depth of 20 ft bgs to assess SVOCs and metals in soil. Soil was sampled at approximate 10 ft intervals through vadose zone based on field screening results. Results: VOCs (PCE) detected in soil exceeding MDEQ RBSLs, generally between 15 and 20 ft bgs. II. Characterization Scope: Eight additional step-out soil borings were completed to 30 ft bgs to define VOCs in soil. Soil was sampled at approximate 5 ft intervals through vadose zone. Groundwater sampled from saturated permeable zones (if encountered). One HPT/VAP boring was completed to bedrock (or refusal) to characterize stratigraphy and define VOC impacts vertically in soil and groundwater. VAP boring soil/gw samples collected at approximate 5 ft intervals beginning at 20 ft bgs. Results: PCE in soil defined vertically and horizontally. PCE in groundwater exceeding RBSLs was encountered between the soil impacts and Plant 2 property boundary, BTEX detected in soil and groundwater exceeding MDEQ RBSLs on east side of Area. III. Delineation: Scope: Seven additional step-out borings completed to 30 ft bgs east and west of Area. Soil was sampled at approximate 5 ft intervals through vadose zone. Groundwater sampled from saturated permeable zones (if encountered). Two soil gas samples collected in the vicinity of benzene soil SVIIC exceedances on east side of Area. Soil borings completed and one monitoring well installed along western property boundary to define PCE in groundwater at property boundary. Results: PCE in soil and groundwater completely defined. BTEX in soil and groundwater appears to merge with impacts from adjacent areas (Areas 5-2 and 5-3). Soil gas results did not indicate exceedances of draft risk-based soil gas screening levels.	X	X		X					X	SOIL: VOCs > DWP, GSIP & SVIIC Metals > DWP, GSIP, DC & PSIC GW: VOCs > DW, GSI, and draft GW _{VI-nr} Metals > DW NOTES: PCE in soil up to 15,300 µg/Kg (>DWP/GSIP) delineated. PCE in groundwater defined at Site property boundary. Benzene in soil up to 15,300 µg/Kg (>DWP/GSIP/ SVIIC) defined to SVIIC. Benzene and isopropylbenzene in groundwater > draft GWVI-nr. Soil gas sampling indicates soil gas VOCs below draft screening levels. COCs not detected in Plant 2 storm sewer samples above GSI criteria.	1) Restrict potable use of groundwater on-site. 2) Exposure barrier for soil DC (As) and PSIC (Mn) exceedances. 3) Require exposure barrier for VI or additional data to show not a concern. 4) Handle excavated soils appropriately (e.g., don't bring to surface and use as surface cover).
AREA 3	NA	AOI 2-11	Monitoring well P2-MW-03 in northwestern corner of Plant 2 with 1,4-dioxane in groundwater	Phase 1 Scope: Installed permanent monitoring well P2-MW-03 to assist with horizontal gradient determination. Soil samples collected at ground surface, 20 ft bgs, and bottom of boring. Groundwater samples collected following installation. Results: VOCs, SVOCs, and metals < RBSLs in soil. In groundwater, 1,4-dioxane and manganese detected above RBSLs.	I. Assessment Scope: Based on Phase 1 results, one HPT/VAP boring was completed to bedrock (or refusal) to characterize the stratigraphy and define groundwater impacts vertically. Groundwater sampled at 30 ft bgs. Groundwater not encountered from 30 feet to bedrock. Results: 1,4-Dioxane and metals arsenic and manganese concentrations exceeding RBSLs encountered in VAP sample; 1,4-dioxane exceeds proposed DWC of 8.5 µg/L. Impacts suspected to be associated with former Adam's Plating Company located 300 feet west of Area 3.			X						X	GW: 1,4-dioxane > Proposed DW (8.5 µg/L) Metals > DW & GSI NOTES: 1,4-Dioxane at this location associated with Former Adam's Plating Facility.	1) Restrict potable use of groundwater on-site.
AREA 4	NA	AOI 2-8	Likely stored waste paint, spent solvent, and used oils on a concrete pad.	Phase 1 Scope: Soil boring P2-SB-33 was advanced to 10 ft bgs, with samples collected at 5 ft intervals. Results: No VOCs detected. SVOCs detected at 5-6 ft bgs, but not at 9-10' bgs (<RBSLs). Metals < RBSLs.	I. Assessment Scope: Based on Phase 1 results, four step-out soil borings were completed to a depth of 25 ft bgs to assess SVOCs in soil. Soil samples were collected at approximate 10 ft intervals through vadose zone based on field screening results. Groundwater samples collected from saturated permeable zones (if encountered). Results: Low-level SVOCs delineated vertically and horizontally in soil and groundwater. Boron, cobalt, selenium, silver, and zinc detected in soil exceeding RBSLs at 1-2 and 10-11 ft bgs. III. Delineation: Scope: One step-out soil boring was completed to 20 ft bgs beyond western Site boundary and sampled for select metals. Soil samples were collected at approximate 10 ft intervals. Groundwater sample collected from saturated permeable zone. Results: Metals in soil exceeding RBSLs defined to the east by borings from neighboring Areas (Areas 5-1 and 5-2). Selenium exceeds GSIP in soils in boring completed across the street. Manganese exceeded the health-based DWC in two groundwater samples.									X	SOIL: Metals > DWP & GSIP GW: Metals > DW NOTES: Manganese in groundwater is likely due to naturally occurring background concentrations. COCs not detected in Plant 2 storm sewer samples above GSI criteria.	1) Restrict potable use of groundwater on-site.

TABLE 2
RFI Phase 2 Summary Report
RACER Plants 2, 3 and 6
Investigation Summary Matrix

Investigation Area	Subarea	Associated AOI	AOI Summary	RFI Phase 1 Investigation	RFI Phase 2 Investigation Sequence/Results	Constituents of Concern > PART 201 RBSLs								Summary of Exceedances	Potential Corrective Measures
						VOCs				Metals					
						CVOCs	BTEX	1,4-Dioxane	Other VOCs	SVOCs	PCBs	CrVI	Other		
AREA 5	5-1	AOI 2-11 AOI ID 2-31 ID 2-32 ID 2-33 ID 2-34 ID 2-35 ID 2-49	Press Pit and Associated Sumps, Pits, and Trenches ID 2-31 - Two 3'x3" oil containment sumps under hydraulic presses ID 2-32 - Two oil containment sumps, 3'x3" and trench ID 2-33 - Two oily waste line manhole sumps ID 2-34 - Two Press Pits ID 2-35 6" deep Tramp Oil trenches, 3' deep Tramp Oil sumps	Phase 1 Scope: Four soil borings were advanced to 20 ft bgs, with samples collected at surface, highest PID reading interval, and deepest interval. Groundwater samples collected from saturated permeable zones (if encountered). Results: No VOCs detected. Low-level SVOCs detected in soil and groundwater (<RBSLs). Lead and manganese in GW detected above MDEQ RBSLs.	I. Assessment Scope: Based on Phase 1 results, 10 step-out soil borings were completed to 20 ft bgs to assess SVOCs and metals in soil. Soil samples were collected at approximate 10 ft intervals through vadose zone based on field screening results. Groundwater samples were collected from saturated permeable zones (if encountered). Two HPT/VAP borings were completed to bedrock (or refusal) to characterize the stratigraphy and define groundwater impacts vertically. Groundwater samples were collected from saturated permeable zones (if encountered). Results: SVOCs detected in soil exceeding RBSLs between 4-5 ft bgs, delineated vertically. Cobalt, selenium, and silver in soil exceeding RBSLs delineated vertically. Arsenic, boron, lead detected in groundwater exceeding RBSLs encountered generally between 10-15 ft bgs across area. Manganese exceeded the health-based DWC in one groundwater sample. SVOCs and metals in soil and groundwater appear to merge with impacts from adjacent areas (Areas 4, 5-2, 5-5, and 8).			X		X			X	SOIL: SVOCs > DWP, GSIP, & DC Metals > DWP & GSIP GW: VOCs > DW 1,4-dioxane > Proposed DW (8.5 µg/L) & DW SVOCs > DW Metals > DW & GSI NOTES: Manganese in groundwater is likely due to naturally occurring background concentrations. COCs not detected in Plant 2 storm sewer samples above GSI criteria.	1) Restrict potable use of groundwater on-site. 2) Exposure barrier for soil DC (PAHs) exceedances. 3) Handle excavated soils appropriately (e.g., don't bring to surface and use as surface cover).
AREA 5	5-2	AOI 2-6 AOI 2-14 AOI ID 2-36	ID 2-6 - SWMU 6 - Former Oily Waste Treatment System. Three 10,000-gallon concrete tanks, two treatment tanks, two gravity separators, chemical storage tanks. ID 2-14 - SWMU 14 - Former Scrap Metal Storage Areas. Stored non-hazardous scrap metal (machining chips, turnings, trimmings, and scrap parts). ID 2-26 - Quench Oil Operations, pits, tanks, and sumps. ID 2-36 - Oil Separator and Sump. 10" oily waste line runs to separator. ID 2-52 - Pickling Room. Concrete wall and acid-resistant floor.	Phase 1 Scope: Ten soil borings were advanced to an average 20 ft bgs, with samples collected at highest PID reading interval and deepest interval. Results: VOCs and SVOCs detected at 0-10 ft bgs, with criteria exceedances at 4-7 ft bgs in two samples. Manganese detected above MDEQ RBSLs at 2-6 ft bgs in three samples. LNAPL detected at P2-SB-37 temporary well.	I. Assessment Scope: Based on Phase 1 results, 38 step-out soil borings were completed to a depth of 25 ft bgs to assess VOCs, SVOCs, metals and LNAPL impacts in soil and groundwater. Soil samples were collected at approximate 5 ft intervals through vadose zone based on field screening results. Groundwater samples collected where saturated permeable zones were encountered. Five HPT/VAP borings were completed to bedrock (or refusal) to characterize the stratigraphy and define soil and groundwater impacts vertically. Samples were collected at approximate 5 ft intervals at each VAP boring. LIF borings (51 total) were completed to 30 ft bgs to delineate the NAPL plume. Results: VOCs, SVOCs and metals detected in soil and groundwater exceeding RBSLs generally associated with the LNAPL impacts. Manganese exceeded the health-based DWC in one groundwater sample. PCBs in LNAPL and detected in soil up to 22,000 µg/Kg. Extent of LNAPL defined vertically and horizontally with LIF. A VOC plume, generally 1,4-dioxane, extends from LNAPL plume to the east across Plant 6. II. Characterization Scope: Two bedrock wells installed near LNAPL plume to verify no impacts to bedrock aquifer. Groundwater samples collected following installation. Results: COCs not detected in bedrock above RBSLs. III. Delineation Scope: Install nine LNAPL monitoring wells in LNAPL plume as part of LNAPL mobility study and to provide permanent LNAPL monitoring locations. Results: Free-phase LNAPL accumulates in most of the wells. LANPL samples and mobility/recoverability testing indicates LNAPL plume is stable (not mobile), with limited recoverability.	X	X	X	X	X	X		X	SOIL: VOCs > DWP, GSIP, & SVIIC SVOCs > DWP, GSIP, VSIC, & DC PCBs > DC Metals > DWP, GSIP, DC & PSIC GW: VOCs > DW & GSI 1,4-dioxane > Proposed DW (8.5 µg/L) & DW SVOCs > DW, GSI, GC & Sol PCBs > DW, GSI, GW _{VI-III} , GC & Sol Metals > DW & GSI NOTES: Elevated VOCs, SVOCs, PCBs, and metals associated with LNAPL plume. Manganese in groundwater is likely due to naturally occurring background concentrations. COCs not detected in Plant 2 storm sewer samples above GSI criteria.	1) Restrict potable use of groundwater on-site. 2) Require an exposure barrier (intact concrete) for soil DC and inhalation exceedances, as well as NAPL. 3) Require an exposure barrier or data indicating that VI is not a concern in this area. 4) Handle excavated soils appropriately (e.g., don't bring to surface and use as surface cover).
AREA 5	5-3	AOI 2-1 AOI ID 2-59 Misc. Data Gap Borings	Press Pits - 8' - 4" deep, 21' by 35', and 67' by 25'	Phase 1 Scope: Five soil borings were advanced to an average 30 ft bgs, with samples collected at highest PID reading interval and deepest interval. Results: VOCs detected above MDEQ RBSLs generally between 5-10 ft bgs. SVOCs and manganese detected above MDEQ RBSLs on west side of Area between 4-6 ft bgs.	I. Assessment Scope: Based on Phase 1 results, 17 step-out soil borings were completed to a depth of 20 ft bgs to assess VOCs, SVOCs, and metals in soil. Soil samples were collected at approximate 10 ft intervals based on field screening results. Groundwater samples were collected from saturated permeable zones (if encountered). Two HPT/VAP borings were completed to bedrock (or refusal) to characterize the stratigraphy and define soil and groundwater impacts vertically. VAP soil/gw samples were collected at approximate 5 ft intervals. Results: 1,4-Dioxane detected in groundwater exceeding RBSLs. VOCs and SVOCs detected in soil exceeding RBSLs in the southeast corner of Area. Metals including silver, manganese, arsenic and cobalt detected in soil or groundwater exceeding RBSLs. II. Characterization Scope: Three additional step-out soil borings were completed to 30 ft bgs in southeastern corner to delineate VOCs and SVOCs. Soil samples were collected at approximate 10 ft intervals based on field screening results. Groundwater samples collected from saturated permeable zones (if encountered). Results: VOCs and SVOCs in soil delineated. 1,4-Dioxane and metals in groundwater appear to merge with impacts to the north and east (Areas 5-2 and 5-5).	X	X	X	X	X			X	SOIL: VOCs > DWP, GSIP, & SVIIC SVOCs > DWP, GSIP, & DC Metals > DWP, GSIP & PSIC GW: VOCs > GSI 1,4-dioxane > Proposed DW (8.5 µg/L) & DW Metals > DW & GSI NOTES: COCs not detected in Plant 2 storm sewer samples above GSI criteria.	1) Restrict potable use of groundwater on-site. 2) Require an exposure barrier (intact concrete) for soil DC (PAHs) and inhalation (Mn) exceedances. 3) Require an exposure barrier or data indicating that VI is not a concern in this area. 4) Handle excavated soils appropriately (e.g., don't bring to surface and use as surface cover).
AREA 5	5-4	AOI ID 2-39	Fuel Oil Pump House and Tank Farm - Eight oil storage tanks, 10.5' diameter. Trenching associated with tanks. Three truck unloading stations associated with tanks.	Phase 1 Scope: Three soil borings were advanced to an average of 20 ft bgs, with samples collected at highest PID interval and deepest interval. Groundwater samples collected from saturated permeable zones (if encountered). Results: Low-level VOCs encountered between 4-5 ft bgs (<RBSLs) in soil. No VOCs or SVOCs encountered in groundwater.	I. Assessment Scope: Based on Phase 1 results, four step-out soil borings were completed to a depth of 20 ft bgs to assess low-level VOCs in soil. Soil sampled at approximate 10 ft intervals based on field screening results. Groundwater samples collected from saturated permeable zones (if encountered). Results: All VOC and SVOC concentrations less than RBSLs. Arsenic detected in grounwater exceeding the RBSLs.								X	GW: Metals > DW & GSI NOTES: COCs not detected in Plant 2 storm sewer samples above GSI criteria.	1) Restrict potable use of groundwater on-site.

TABLE 2
RFI Phase 2 Summary Report
RACER Plants 2, 3 and 6
Investigation Summary Matrix

Investigation Area	Subarea	Associated AOI	AOI Summary	RFI Phase 1 Investigation	RFI Phase 2 Investigation Sequence/Results	Constituents of Concern > PART 201 RBSLs								Summary of Exceedances	Potential Corrective Measures
						VOCs				SVOCs	PCBs	Metals			
						CVOCs	BTEX	1,4-Dioxane	Other VOCs			CrVI	Other		
AREA 5	5-5	AOI 2-15	AOC 1 - Building 225 UST Farm - Two 20,000-gallon tanks that stored gasoline and diesel east of Building 250. One 1,500-gallon tank that stored used oil located southeast of Building 250. One 12,000-gallon tank that stored heating oil located west of Building 250. All USTs removed in 1990 and 1991. Closure report submitted on 10/01/1996. Restrictive Covenant filed with Register of Deeds in 2003.	Phase 1 Scope: Two soil borings were advanced to 20 ft bgs, with samples collected at highest PID interval and deepest interval. Permanent monitoring well P2-MW-04 was installed and sampled at surface and deepest interval. Groundwater samples collected following installation. Results: 1,4-Dioxane and manganese in GW exceeding MDEQ DW RBSLs encountered in groundwater. SVOCs, VOCs, and arsenic exceeding MDEQ RBSLs encountered in soil generally between 1-3 ft bgs.	I. Assessment Scope: Based on Phase 1 results, nine step-out soil borings were completed to a depth of 20 ft bgs to assess VOCs, SVOCs, and metals in soil. Soil samples were collected at approximate 5 ft intervals based on field screening results. Groundwater samples collected from saturated permeable zones (if encountered). One HPT/VAP boring was completed to bedrock (or refusal) in the vicinity of the permanent monitoring well to characterize the stratigraphy and define soil and groundwater impacts vertically. VAP soil/gw samples were collected at approximate 5 ft intervals. Results: 1,4-Dioxane detected in groundwater exceeding RBSLs in the VAP boring. Arsenic detected in groundwater exceeding RBSLs along eastern Area boundary adjacent to railroad tracks. VOCs and metals arsenic, cobalt, and manganese defined vertically and appear to merge with impacts in adjacent areas (Area 5-2, 5-6).	X	X	X	X	X	X		X	SOIL: VOCs > DWP SVOCs > GSIP & DC Metals > DWP, GSIP & PSIC GW: 1,4-dioxane > Prop DW (8.5 µg/L) SVOCs > DW Metals > DW & GSI NOTES: Manganese in groundwater is likely due to naturally occurring background concentrations. Manganese exceedance of the PSIC is deep (56-57") and therefore, is not a concern, as soil this deep is not likely to be brought to the surface. COCs not detected in Plant 2 storm sewer samples above GSI criteria.	1) Restrict potable use of groundwater on-site. 2) Require exposure barrier for DC (PAHs) exceedances. 3) Handle excavated soils appropriately (e.g., don't bring to surface and use as surface cover).
AREA 5	5-6	AOI 6-18 AOI 6-48	AOC 1 - Building 225 UST Farm - Eight former 30,000-gallon tanks. Removed 1989. Closure report submitted 10/1/96.	Phase 1 Scope: Two soil borings were advanced to 10 ft bgs, with samples collected at highest PID interval and deepest interval. Groundwater samples were collected from saturated permeable zones (if encountered). Groundwater samples were also collected at seven permanent monitoring well locations. Results: 1,4-Dioxane, VOCs, and metals lead and arsenic exceeding RBSLs encountered in groundwater. Low-level VOCs and SVOCs encountered in soil (<RBSLs). Manganese exceeding RBSLs encountered in soil throughout.	I. Assessment Scope: Based on Phase 1 results, 15 step-out soil borings were completed to an average depth of 15 ft bgs to assess impacts in soil and groundwater. Soil samples were collected at approximate 10 ft intervals based on field screening results. Groundwater samples collected from saturated permeable zones (if encountered). Six HPT/VAP borings were completed to bedrock (or refusal) in the vicinity of permanent monitoring wells to characterize the stratigraphy and define soil and groundwater impacts vertically. VAP boring soil/gw samples collected at approximate 10 ft intervals. Results: 1,4-Dioxane detected in groundwater exceeding RBSLs in three VAP borings at 35-40 ft bgs, defined vertically and merge with groundwater impacts in adjacent areas. VOCs detected in groundwater exceeding RBSLs defined vertically. VOCs detected in soil exceeding RBSLs defined vertically and by adjacent areas. Arsenic, barium, cadmium, cobalt, copper, lead, manganese, mercury, selenium, silver, and zinc detected in soil exceeding RBSLs at 0-7 ft bgs, delineated vertically and generally merge with impacts in adjacent areas. Manganese detected above the health-based DWC in 3 groundwater samples.	X	X	X	X	X		X	SOIL: VOCs > DWP & GSIP Metals > DWP, GSIP, & DC GW: VOCs > DW & GSI 1,4-dioxane > Prop DW (8.5 µg/L) Metals > DW & GSI NOTES: Manganese in groundwater is likely due to naturally occurring background concentrations. Only COC detected in Plant 6 storm sewer samples above GSI criteria was selenium, which was not detected in gw above GSI criteria in Area 5-6.	1) Restrict potable use of groundwater on-site. 2) Require exposure barrier for DC (lead) exceedances. 3) Handle excavated soils appropriately (e.g., don't bring to surface and use as surface cover).	
AREA 5	5-7	AOI 6-43 AOI 6-88	ID 6-43 - Stormceptor - Includes stormceptor oil and sediment separator ID 6-88 - Parking Lot Exceedance	Phase 1 Scope: Four soil borings were advanced to 10 ft bgs, with samples collected at highest PID interval and deepest interval. Groundwater samples were collected from saturated permeable zones (if encountered). Groundwater samples were also collected at four permanent monitoring well locations. Results: BTEX exceeding MDEQ RBSLs encountered in groundwater and soil at 7-10 ft bgs. Low-level SVOCs encountered in all borings (<RBSLs). Metals antimony and cadmium encountered in soil exceeding RBSLs between 5-7 ft bgs. Metals lead and antimony encountered in groundwater above RBSLs throughout Area.	I. Assessment Scope: Based on Phase 1 results, eight step-out soil borings were completed to an average depth of 20 ft bgs to assess VOCs and metals in soil and groundwater. Soil samples were collected at approximate 5 ft to 10 ft intervals based on field screening results. Groundwater samples collected from saturated permeable zones (if encountered). Three HPT/VAP borings were completed to bedrock (or refusal) to characterize the stratigraphy and define soil and groundwater impacts vertically. VAP soil/gw samples were collected at approximate 5 ft intervals. Results: VOCs (BTEX) detected in groundwater exceeding RBSLs delineated to the north. Vinyl chloride detected in groundwater exceeding RBSLs at eastern property boundary. BTEX detected in soil exceeding RBSLs delineated vertically and horizontally. TCE detected in soil exceeding RBSLs (including SVIIC) at 11-12 ft bgs. Metals cobalt, arsenic, antimony, and silver detected in soil and/or groundwater exceeding RBSLs delineated to the north, and appear to merge with impacts to the south and west (Areas 5-5 and 5-6). II. Characterization Scope: Seven additional step-out soil borings were completed to 30 ft bgs to delineate TCE in soil. Soil samples were collected at approximate 5 ft to 10 ft intervals based on field screening results. Groundwater samples collected from saturated permeable zones (if encountered). Results: TCE detected in soil exceeding RBSLs, delineated vertically and horizontally. III. Delineation Scope: Two additional step-out soil borings were completed off-Site to 30 ft bgs to delineate vinyl chloride in groundwater. Soil samples were collected at approximate 10 ft intervals based on field screening results. Groundwater samples collected from saturated permeable zones (if encountered). Two monitoring wells installed north and east of Area to provide permanent monitoring locations for groundwater impacts. Results: Vinyl chloride in perched groundwater delineated horizontally. Vinyl chloride below RBSLs and lead above RBSLs present in bedrock monitoring well at property boundary. Manganese detected above the health-based DWC in 1 groundwater sample.	X	X		X	X		X	SOIL: VOCs > DWP, GSIP, SVIIC, & VSIC Metals > DWP & GSIP GW: VOCs > DW, GSI & GW _{VH-III} SVOCs > GSI 1,4-dioxane > Proposed DW (8.5 µg/L) Metals > DW & GSI NOTES: TCE in soil up to 12,000 µg/Kg (>DWP/GSIP/SVIIC/VSIC) delineated. TCE does not exceed the VSIC for a 1/2-acre source area. Therefore, not likely a concern for ambient air inhalation. Only COC detected in Plant 6 storm sewer samples above GSI criteria was selenium, which was not detected in gw above GSI criteria in Area 5-7. Manganese in groundwater is likely due to naturally occurring background concentrations. Propose to replace damaged/destroyed bedrock wells MW-04-06 and MW-04-04(6) to determine if metals are present in deep groundwater above DW criteria.	1) Restrict potable use of groundwater on-site. 2) Require exposure barrier for VI or additional data to show not a concern.	
AREA 5	5-8	AOI 6-49 AOI 6-81	Former Paint Shop Area	Phase 1 Scope: Three soil borings were advanced to an average 10 ft bgs, with samples collected at highest PID interval and deepest interval. Groundwater samples were collected from saturated permeable zones (if encountered). Results: Low-level VOCs detected in groundwater below RBSLs. Metals lead and arsenic detected in groundwater exceeding RBSLs. No VOCs, SVOCs, or metals exceedances detected in soil.	I. Assessment: Scope: Based on Phase 1 results, two HPT/VAP borings were completed to bedrock (or refusal) to characterize the stratigraphy and define groundwater impacts vertically. Soil samples were collected at approximate 15 ft intervals. Results: 1,4-Dioxane detected in groundwater exceeding proposed 8.5 µg/L DWC defined vertically. II. Characterization Scope: Two additional step-out soil borings were completed to 20 ft bgs north and east of the Area to delineate VOCs and metals in soil and groundwater. Soil samples were collected at approximate 10 ft intervals based on field screening results. Groundwater samples collected from saturated permeable zones (if encountered). Results: Metals in soil and groundwater delineated vertically and horizontally. III. Delineation Scope: Two monitoring wells installed north and east of Area adjacent to Characterization stage soil borings to provide permanent monitoring points for groundwater impacts. Results: Sampling of the two permanent monitoring wells indicates no exceedances of RBSLs. 1,4-Dioxane delineated at property boundary.			X	X				X	SOIL: Metals > GSIP & PSIC GW: 1,4-dioxane > Proposed DW (8.5 µg/L) Metals > DW & GSI NOTES: 1,4-dioxane in groundwater delineated. Only COC detected in Plant 6 storm sewer samples above GSI criteria was selenium, which was not detected in gw above GSI criteria in Area 5-8. Manganese (historical sample) does not exceed PSIC for a 5-acre source area, not likely a concern for this pathway. Additional groundwater sampling will be completed at P6-SB-35 to determine if additional work is required to delineate vanadium in GW above DW criteria.	1) Restrict potable use of groundwater on-site.

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						VOCs				Metals						
						CVOCs	BTEX	1,4-Dioxane	Other VOCs	SVOCs	PCBs	CrVI	Other			
AREA 6	NA	AOI 6-16/6-33 AOI 6-59 AOI ID 6-36 ID 6-38 ID 6-39 ID 6-75	AOC 1 - Tanks 5 and 6 - Tank 5: 4,000-gallon steel diesel fuel storage tank; Tank 6: 15,000-gallon steel gasoline storage tank 16' bgs; stores purge thinner/diesel fuel; double-walled tank with leak detection system; Installed in the same location as AOI 6-16	Phase 1 Scope: Soil boring P6-SB-43 were advanced to 20 ft bgs, with samples collected at highest PID interval and deepest interval. Groundwater samples were collected from two permanent monitoring wells. Results: 1,4-Dioxane detected in groundwater exceeding RBSLs. No VOCs or SVOCs were detected in soil/gw.	I. Assessment Scope: Based on Phase 1 results, four step-out soil borings were completed to an average 25 ft bgs to assess VOCs and SVOCs in soil and delineate VOCs in groundwater. Soil samples were collected approximate 10 ft intervals based on field screening results. Groundwater samples collected from saturated permeable zones (if encountered). One HPT/VAP boring was completed to bedrock (or refusal) to characterize stratigraphy and define soil and groundwater impacts vertically. VAP soil/gw samples were collected at approximate 10 ft intervals. Results: 1,4-Dioxane in groundwater delineated horizontally. VOCs and SVOCs less than RBSLs.			X	X						GW: 1,4-dioxane > Prop DW (8.5 µg/L) NOTES: 1,4-dioxane in groundwater delineated.	1) Restrict potable use of groundwater on-site.
AREA 7	NA	AOI 6-17 AOI 6-47	ID 6-17 - AOC 2 - Tanks 1 (SWMU 4) and 3 (SWMU 8) - Tank 1: 7,500-gallon carbon steel virgin thinner storage tank; Tank 3: 12,000-gallon carbon steel virgin thinner storage tank ID 6-47 - Leaking Industrial Waste Line	Phase 1 Scope: Three soil borings were advanced to 20 ft bgs, with samples collected at the highest PID interval. Permanent monitoring well P6-MW-01 was installed to 25 ft bgs, with samples collected at surface, highest PID interval, and deepest interval. Groundwater was sampled following installation. Groundwater samples were also collected at seven permanent monitoring wells. Results: BTEX detected in groundwater and soil exceeding RBSLs. VOCs and SVOCs detected in soil and groundwater below RBSLs. Metals arsenic, vanadium, and lead detected in groundwater exceeding RBSLs. Metals detected in soil below RBSLs.	I. Assessment Scope: Based on Phase 1 results, eight step-out soil borings were completed to an average depth of 20 ft bgs to assess VOCs and metals in soil and groundwater. Soil samples were collected at approximate 5 ft intervals based on field screening results. Groundwater samples collected from saturated permeable zones (if encountered). One HPT/VAP boring was completed to bedrock (or refusal) to characterize stratigraphy and define soil and groundwater impacts vertically. Samples were collected at approximate 5 ft to 10 ft intervals. Results: BTEX in groundwater delineated vertically and horizontally to the east. BTEX detected in soil exceeding RBSLs between 5-15 ft bgs, delineated vertically. SVOCs detected in soil exceeding RBSLs at surface, delineated vertically. SVOCs in groundwater delineated vertically and horizontally. II. Characterization Scope: Two additional step-out soil borings advanced to 30 ft bgs define BTEX and SVOCs in soil. Soil samples were collected at approximate 5 ft intervals based on field screening results. Results: BTEX in soil exceeding RBSLs delineated to the north. SVOCs detected in soil below RBSLs delineated to the north and east. High concentrations of BTEX identified on southern property boundary above SVIIC Criteria. III. Delineation Scope: Four additional step-out soil borings advanced to 30 ft bgs off-Site south of Area to delineate VOCs, SVOCs, and metals in soil and groundwater. Two soil gas samples collected in the vicinity of BTEX SVIIC exceedances. Two monitoring wells were installed south of property boundary to provide permanent monitoring points for delineation of metals. Results: BTEX and SVOCs in soil and groundwater delineated vertically and horizontally. Metals detected in soil exceeding RBSLs delineated vertically and horizontally. Vanadium, lead and arsenic detected in groundwater above RBSLs south of Plant 6. Soil gas results did not indicate exceedance of risk-based soil gas screening levels.		X		X	X			X	SOIL: VOCs > DWP, GSIP, SVIIC, DC, GCP & Csat SVOCs > GSIP & DC Metals > GSIP GW: VOCs > DW & GSI SVOCs > DW Metals > DW & GSI NOTES: Total Xylenes in Soil up to 472,000 µg/Kg (>DWP/GSIP/SVIIC/DC/Csat) delineated. Concentrations of Xylenes do not exceed the risk-based SVIIC, GCP, or DC criteria. Metals in groundwater encountered off-site above DW criteria. Soil gas results below draft MDEQ soil gas screening levels. Manganese in groundwater is likely due to naturally occurring background concentrations. Does not exceed off-site. Proposing additional sampling south of Area 7 to define the extent of metals above criteria in perched water.	1) Restrict potable use of groundwater on-site. 2) Require exposure barrier for VI or additional data to show not a concern. 3) Handle excavated soils appropriately (e.g., don't bring to surface and use as surface cover).	
AREA 8	NA	AOI 2-7 AOI ID 2-37 AOI ID 2-38	ID 2-7 - Paint Shop Sumps and Trenches - Three sumps are 3'x3'x3' each ID 2-37 - Press Pits. Concrete press pits. One sump associated with presses. ID 2-38 - Scrap Steel Operations Pits. Scrap Steel Pits, 8" Deep. Scrap Pit oily waste sump	Phase 1 Scope: Four soil borings were advanced to an average 20 ft bgs, with samples collected at the highest PID interval and the deepest interval. Permanent monitoring well P2-MW-01 was installed and sampled at surface, highest PID interval, and EOB. Groundwater samples were collected following installation. Results: Low-level VOCs encountered in soils between 2-5 ft bgs (<RBSLs). SVOCs detected in soil exceeding RBSLs at one location at 3-4 ft bgs. No VOCs or SVOCs encountered in groundwater. Metals barium and manganese encountered in groundwater above RBSLs.	I. Assessment Scope: Based on Phase 1 results, nine step-out soil borings were completed to an average depth of 15 ft bgs to assess VOCs and SVOCs in soil. Soil samples were collected at approximate 5 ft intervals based on field screening results. Groundwater samples collected from saturated permeable zones. Results: VOCs in soil and GW and SVOCs in GW do not exceed RBSLs. SVOCs in soil above RBSLs defined vertically and horizontally. Metals in soil and groundwater exceeding RBSLs defined vertically and to the north, and appear to merge with impacts from Area 5-2 to the south.					X			X	SOIL: SVOCs > DWP & GSIP Metals > DWP & GSIP GW: SVOCs > GSI Metals > DW & GSI NOTES: COCs not detected in Plant 2 storm sewer samples above GSI criteria.	1) Restrict potable use of groundwater on-site.	
AREA 9	NA	AOI 6-60 Misc data gap	Paint Mix Room	Phase 1 Scope: Five soil borings were advanced to an average 20 ft bgs, with samples collected at highest PID interval and deepest interval. Groundwater samples collected from saturated permeable zones (if encountered). Results: VOCs in soil and groundwater exceeding RBSLs encountered generally between 4-12 ft bgs. SVOCs encountered in soil below RBSLs at 1-2 ft bgs.	I. Assessment Scope: Based on Phase 1 results, 11 step-out soil borings were completed to an average 20 ft to 30 ft bgs to assess VOCs in soil and groundwater. Soil samples were collected at approximate 5 ft intervals based on field screening results. Groundwater samples collected from saturated permeable zones (if encountered). One HPT/VAP boring was completed to bedrock (or refusal) to characterize stratigraphy and define soil impacts vertically. VAP boring soil/gw samples were collected at 5 ft intervals. Results: VOCs in groundwater exceeding RBSLs defined vertically. VOCs detected in soil exceeding RBSLs defined vertically and horizontally to the south and east. SVOCs detected in soil exceeding RBSLs defined vertically and horizontally to the east. II. Characterization Scope: One additional step-out soil boring was completed to 30 ft bgs north of Assessment stage borings to delineate VOCs and SVOCs in soil and groundwater. Soil samples were collected at approximate 5 ft intervals based on field screening results. One additional HPT/VAP boring was completed to bedrock (or refusal) to the east of the Area to delineate VOCs in groundwater. VAP groundwater samples collected at 10 ft intervals or where saturated permeable zones were encountered. Results: VOCs and SVOCs in soil defined vertically. VOCs not defined to north and west of area before railroad ROW, but are defined by adjacent areas interior to the Site. 1,4-Dioxane encountered in groundwater east of Area exceeding proposed 8.5 ug/L DWC.	X	X	X	X	X			X	SOIL: VOCs > DWP, GSIP, SVIIC, GCP, DC & Csat SVOCs > DWP, GSIP, VSIC, & DC GW: VOCs > DW, GSI, GW _{VI-nt} & FESL SVOCs > GSI Metals > DW & GSI NOTES: BTEX in groundwater up to 181,000 µg/L. Xylenes exceed the FESL in groundwater. BTEX in soil up to 651,000 µg/Kg delineated. Concentrations of ethylbenzene and xylenes do not exceed the risk-based SVIIC, GCP, or DC criteria.	1) Restrict potable use of groundwater on-site. 2) Require exposure barrier for soil DC (PAHs). 3) Require exposure barrier for VI or data indicating that VI is not a concern. 4) Handle excavated soils appropriately (e.g., don't bring to surface and use as surface cover).	

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Investigation Area	Subarea	Associated AOI	AOI Summary	RFI Phase 1 Investigation	RFI Phase 2 Investigation Sequence/Results	Constituents of Concern > PART 201 RBSLs								Summary of Exceedances	Potential Corrective Measures	
						VOCs				SVOCs	PCBs	Metals				
						CVOcs	BTEX	1,4-Dioxane	Other VOCs			CrVI	Other			
AREA 10	NA	AOI 6-19 AOI 6-63 AOI 6-82	ID 6-48 - Former Coal Pile ID 6-82 - Former Coal Chute Building. Basement filled with water at the time of the site walkthrough ID 6-19 - Process Waste Tunnel. Runs underneath Buildings 28 and 21; exits Site to the west and continues to GM Lansing Plant 2	Phase 1 Scope: Three soil borings were advanced to an average depth of 20 ft bgs, with samples collected at highest PID interval and deepest interval. Groundwater samples collected from saturated permeable zones (if encountered). Results: SVOCs, VOCs and Metals detected in soil <RBSLs. Groundwater < RBSLs	I. Assessment Scope: Based on Phase 1 results, five step-out soil borings were completed to an average 20 ft bgs to assess VOCs, SVOCs and metals in soil. Soil samples were collected at approximate 10 ft intervals based on field screening results. One HPT/VAP boring was completed to bedrock (or refusal) to characterize stratigraphy and assist with site-wide groundwater delineation. VAP samples were collected where saturated permeable zones were encountered. Results: VOCs not encountered in groundwater. Manganese detected in groundwater exceeding aesthetic DWC but not health-based DWC. VOCs and SVOCs detected in soil below non-residential RBSLs (but above residential DC Criteria for benzo(a)pyrene). II. Characterization Scope: Three additional step-out soil borings were completed to 30 ft bgs to define SVOCs in soil. Soil samples were collected at approximate 10 ft intervals based on field screening results. Groundwater samples collected from saturated permeable zones (if encountered). Results: SVOCs in soil defined vertically and horizontally..									X	SOIL: Metals > GSIP & PSIC NOTES: Only COC detected in Plant 6 storm sewer samples above GSI criteria was selenium, which was not detected in gw above GSI criteria in Area 10. Manganese (historical sample) exceeded the PSIC for a 100-acre source, but not a 5-acre source. Therefore, likely not a concern for the Site.	1) Restrict potable use of groundwater on-site.
AREA 11	NA	AOI ID 3-54	Sump - Sump pit with sump pump, unknown use	Phase 1 Scope: Three soil borings were advanced to an average depth of 20 ft bgs, with samples collected at highest PID interval and deepest interval. Results: VOCs, SVOCs, and metals detected in soil below RBSLs.	I. Assessment Scope: Based on Phase 1 results, eight step-out soil borings were completed to an average 15 ft bgs to assess impacts in soil. Soil samples were collected at approximate 10 ft intervals based on field screening results. Groundwater samples collected from saturated permeable zones (if encountered). One HPT/VAP boring was completed to bedrock (or refusal) to characterize stratigraphy and define impacts in soil/gw vertically. VAP soil/gw samples were collected at 10 ft intervals. Results: VOCs and SVOCs detected in soil exceeding RBSLs. 1,4-Dioxane and other VOCs detected in groundwater exceeding RBSLs. SVOCs detected in groundwater below RBSLs. II. Characterization Scope: Ten additional step-out soil borings completed to an average 30 ft bgs to define VOCs in soil and groundwater. Soil samples were collected at approximate 5 ft intervals based on field screening results. Groundwater samples collected from saturated permeable zones (if encountered). Results: VOCs, SVOCs in soil and groundwater defined horizontally. VOCs detected in soil exceeding RBSLs appear to terminate at "coliseum" foundation wall to the north, or otherwise merge with Area 21. Deep groundwater samples not collected at VAP boring due to low-permeability saturated formation. III. Delineation Scope: Monitoring well MW-12-21 installed to provide a permanent monitoring point for delineation of groundwater impacts. Results: 1,4-dioxane detected at MW-12-21 in deep overburden above RBSLs. Follow-up work required for deep overburden characterization.	X	X	X							SOIL: VOCs > DWP, GSIP, & SVIIC SVOCs > GSIP Metals > DWP & GSIP GW: VOCs > DW & GSI 1,4-dioxane > Proposed DW (8.5 µg/L) & DW Metals > DW NOTES: 1,4-dioxane up to 460 µg/L (>Proposed DW/DW) encountered at 75 ft bgs near Coliseum. Additional sampling will be conducted to determine the extent of 1,4-dioxane in deep overburden. COCs not detected in Plant 3 storm sewer samples above GSI criteria.	1) Restrict potable use of groundwater on-site. 2) Require exposure barrier for VI or data showing conditions acceptable for VI.
AREA 12	NA	MW-04-02 (TD=132.7') MW-04-03 (TD=88.25')	Vinyl chloride detected above DW Criteria in deep overburden and bedrock	Phase 1 Scope: Permanent monitoring wells MW-04-02(3) and MW-04-03(3) were sampled. Results: Vinyl chloride detected in groundwater exceeding RBSLs.	II. Characterization Scope: One step-out soil boring was completed to 20 ft bgs to characterize metals between property boundary and neighboring Area to the east (Area 14). Soil samples were collected at approximate 10 ft intervals based on field screening results. Results: Metals in soil samples < RBSLs. Vinyl Chloride and other VOCs in bedrock on northwestern portion of Plant 3 believed to originate from off-site source.	X									GW: VOCs > DW	1) Restrict potable use of groundwater on-site.
AREA 13	NA	Background Sample	PCBs detected at P3-SB-3 @ 15'-16'	Phase 1 Scope: Soil boring P3-SB-03 was advanced to 30 ft bgs and sampled at 10 ft intervals. Results: No VOCs or SVOCs detected. PCBs detected in soil at 15-16 ft bgs	I. Assessment Scope: Based on Phase 1 results, four step-out soil borings were completed to 20 ft bgs to assess PCBs in soil. Soil samples were collected at approximate 10 ft intervals. Results: PCBs defined in soil.										NOTES: No constituents exceed RBSLs	1) Restrict potable use of groundwater on-site.
AREA 14	NA	AOI 3-10 Misc. Data Gap Borings	AOC 4 - Former Electroplating Area - (1) Electroplating operations (2) New and Reworked Storage Tanks, Chromic Acid Reclaim, 7' diameter by 9' tall (3) 17 Acid Copper Plating Tanks (4) Sludge Sump Under Nickel Storage Tank, 1,350 Gallons (5) 3 Washwater Tanks (1,900-gallons each) in Plating Area (6) Nickel Plating Tanks 1, 2, 3, 4, 6, 7, 8, and 9 (7) Copper Buffing Wash and Rinse Tanks (8) Bumper Plating Sumps (9) Durni Nickel Operations Area, Tanks, Sumps, and Drain Deck	Phase 1 Scope: Six soil borings were advanced to an average 25 ft bgs and sampled at highest PID interval and deepest interval. Two permanent monitoring wells were sampled. Results: VOCs not detected in soil/gw. SVOCs detected in soil below RBSLs. SVOCs not detected in groundwater. Metals in soil below RBSLs. Metals boron, arsenic, and hexavalent chromium detected in perched groundwater exceeding RBSLs.	I. Assessment Scope: Based on Phase I results, 14 step-out soil borings were completed to an average 15 ft bgs to assess extent of metals in soil and perched water. Soil samples were collected at approximate 5 ft intervals. Groundwater samples were collected from saturated permeable zones (if encountered). Three VAP borings were completed in Area to bedrock (or refusal) to characterize stratigraphy and define metal impacts in soil and groundwater. VAP soil/gw samples were collected at 5 ft intervals. Results: Hexavalent chromium defined vertically and horizontally in perched zone and appears limited in extent. Additional metals detected in soil and groundwater exceeding RBSLs defined vertically and horizontally, appearing to merge with impacts from Areas to the east (Areas 17 and 18).								X	X	SOIL: Metals > DWP, GSIP, DC & PSIC GW: Metals > DW & GSI NOTES: COCs not detected in Plant 3 storm sewer samples above GSI criteria. Arsenic exceeds the DC in the northern portion of Area 14 at a depth of 43.5-45 feet bgs. Due to the depth of the exceedance, exposure is not likely. Nickel and total chromium (as hexavalent chromium) exceeded the PSIC for a 100-acre source area. Exceedances for both were located within a 1/2-acre area. Nickel did not exceed the PSIC for a 1/2-acre. Total chromium did; however, all but one location is under quality concrete. Additional work will be completed to determine the extent of metals impacts in soil. Additional groundwater samples will be collected from deep overburden wells MW-91-2, MW-02-04 and MW-04-04 with an emphasis on low turbidity sampling to verify the presence of metals above criteria.	1) Restrict potable use of groundwater on-site. 2) Require exposure barrier for the total chromium PSIC exceedances. 3) Handle excavated soils appropriately (e.g., don't bring to surface and use as surface cover).

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						VOCs				SVOCs	PCBs	Metals				
						CVOCs	BTEX	1,4-Dioxane	Other VOCs			CrVI	Other			
AREA 15	NA	AOI ID 3-15	Oil Sump for Crank Shaft Operations		I. Assessment Scope: Based on Phase 1 results, four step-out soil borings were completed to 20 ft bgs to assess VOC impacts in soil and groundwater. Soil samples were collected at approximate 10 ft intervals based on field screening results. Groundwater samples collected from saturated permeable zones (if encountered). Results: 1,4-Dioxane and SVOCs detected in perched groundwater exceeding RBSLs. SVOCs and selenium detected in soil exceeding RBSLs. II. Characterization Scope: Two additional step-out borings were completed to 20 ft bgs to define VOCs and SVOCs in soil and groundwater to the west and south. Soil samples were collected at approximate 10' intervals. Groundwater samples were collected from saturated permeable zones (if encountered). Results: SVOCs and selenium in soil delineated. SVOCs and 1,4-dioxane in groundwater water appears localized and delineated by dry zones.	X		X		X					SOIL: VOCs > DWP & VSIC SVOCs > GSIP Metals > GSIP GW: 1,4-dioxane > Proposed DW (8.5 µg/L) SVOCs > DW Metals > DW & GSI NOTES: Dibromochloropropane exceeds the 100-acre source area VSIC in one location. It does not exceed the 1/2-acre source area VSIC. Therefore, it is not likely to be a concern for the ambient air pathway. COCs not detected in Plant 3 storm sewer samples above GSI criteria.	1) Restrict potable use of groundwater on-site.
AREA 16	NA	AOI 3-11	SWMU 14 - Former Scrap Metal Storage Areas		I. Assessment Scope: Based on Phase 1 results, eight step-out borings were completed to an average 20 ft bgs to assess SVOC impacts in soil. Soil samples were collected at approximate 10 ft intervals based on field screening results. Groundwater samples collected from saturated permeable zones (if encountered). Results: SVOCs detected in soil detected exceeding RBSLs, generally associated with fill material 5-10' below grade. II. Characterization Scope: Three additional step-out soil borings were completed to 20 ft bgs to define SVOCs in soil. Soil samples were collected at approximate 10 ft intervals based on field screening results. Groundwater samples collected from saturated permeable zones (if encountered). Results: SVOCs defined horizontally. Metals lead and mercury detected in soil exceeding RBSLs not defined to east. Lead in excess of DC Criteria. III. Delineation Scope: Seven additional step-out soil borings were completed to an average 20 ft bgs to define metals in soil. Soil samples were collected at approximate 10 ft intervals based on field screening results. Groundwater collected from saturated permeable zones (if encountered). Results: Arsenic and other metals detected in soil and groundwater exceeding RBSLs not defined to the south or east.					X			X	SOIL: SVOCs > DWP, GSIP, & DC Metals > DWP, GSIP, DC, & PSIC GW: Metals > DW & GSI NOTES: COCs not detected in Plant 3 storm sewer samples above GSI criteria. Additional work will be completed between Area 16 and the southeastern Plant 3 property boundary to define the extent of arsenic in groundwater.	1) Restrict potable use of groundwater on-site. 2) Require exposure barrier for DC (PAHs and Lead) and PSIC (Mn) exceedances. 3) Handle excavated soils appropriately (e.g., don't bring to surface and use as surface cover).	
AREA 17	NA	AOI 3-3 AOI 3-4 AOI 3-9	ID 3-4 - SWMU 18 - Machining Residue Storage Area. 20 cubic yard roll-off box located. ID 3-9 - AOC 2 - Building 301 UST Farm. Six USTs, stored polymer, sulfuric acid, soluble oil, gasoline, hydraulic oil, and APCO cleaner; were removed in 1989.		I. Assessment Scope: Based on Phase 1 results, eight step-out soil borings were completed to an average 20 ft bgs to assess VOCs and SVOCs in soil and groundwater. Soil samples were collected at approximate 10 ft intervals based on field screening results. Groundwater samples collected from saturated permeable zones (if encountered). Thee HPT/VAP borings were completed to an average 75 ft bgs to characterize stratigraphy and define soil impacts vertically. Samples were collected at 5 ft intervals. 22 LIF borings were completed to 30 ft bgs to delineate the NAPL plume. Results: VOCs and SVOCs detected in soil exceeding RBSLs at 16-17 ft bgs to the south of the Area. Copper detected in soil exceeding RBSLs, defined vertically and horizontally to the east. II. Characterization Scope: Nine additional step-out soil borings were completed to 30 ft bgs to define VOCs in soil south of Area. Soil samples were collected at approximate 10 ft intervals based on field screening results. Groundwater samples collected from saturated permeable zones (if encountered). Results: VOCs and SVOCs detected in soil exceeding RBSLs defined to the vertically and horizontally. VOCs detected in groundwater exceeding RBSLs defined vertically and horizontally. III. Delineation Scope: Three NAPL monitoring wells were installed in the southern area of concern identified by the LIF study in order to provide permanent NAPL monitoring points. One monitoring well was installed east of the NAPL plume to provide a permanent monitoring point for the delineation of groundwater impacts. Results: New well was dry upon attempt to sample.	X	X	X	X	X			X	SOIL: VOCs > DWP, GSIP, & SVIIC SVOCs > GSIP Metals > GSIP GW: VOCs > DW, GSI, & GW_{VI,IR} 1,4-dioxane > Proposed DW (8.5 µg/L) SVOCs > DW Metals > DW & GSI NOTES: Elevated VOCs associated with LNAPL plume. COCs not detected in Plant 3 storm sewer samples above GSI criteria. Additional soil sampling will be completed east of Area 17 near the Plant 3 property boundary to define the extent of arsenic in soil above the DW criteria.	1) Restrict potable use of groundwater on-site. 2) Require exposure barrier for VI or data showing conditions acceptable for VI. 3) Handle excavated soils appropriately (e.g., don't bring to surface and use as surface cover).	
AREA 18	NA	AOI 3-2 AOI 3-6	ID 3-2 - SWMU 16 - Oily Waste Treatment System. Treated oily wastewater; Two concrete used oil holding tanks, Two concrete oily sludge tanks. ID 3-6 - SWMU 20 - Former Electroplating Waste Treatment System. Treated electroplating wastes (copper, nickel, and chromium). Included an Acid Wash Tank, Sludge Storage Tank, Waste Acid Storage Tank.		I. Assessment Scope: Based on Phase 1 results, seven step-out soil borings were completed to 20 ft bgs to assess VOCs in soils. Soil samples were collected at approximate 10 ft intervals based on field screening results. Groundwater samples collected from saturated permeable zones (if encountered). One deep VAP boring was completed to bedrock (or refusal) to characterize stratigraphy and define soil impacts vertically. VAP soil/gw samples were collected at 10 ft intervals. Results: SVOCs detected in soil exceeding RBSLs defined horizontally to the south. Metals boron and cobalt detected in soil exceeding RBSLs defined vertically and horizontally to the south and west. Vanadium detected in groundwater exceeding RBSLs defined horizontally to the south. II. Characterization Scope: Three additional soil borings were completed to 30 ft bgs to define soil SVOCs and groundwater metal impacts. Soil samples were collected at approximate 10 ft intervals based on field screening results. Groundwater samples collected from saturated permeable zones. Results: SVOCs in soil defined vertically and horizontally. III. Delineation Scope: One step-out soil boring was completed to 30 ft bgs to define select soil metal impacts. Soil samples were collected at 10 ft intervals. Results: Boron in soil defined horizontally.					X			X	SOIL: SVOCs > DWP, GSIP, & DC Metals > DW & GSI GW: Metals > DW & GSI NOTES: COCs not detected in Plant 3 storm sewer samples above GSI criteria. Additional soil sampling will be completed east of Area 18 near the Plant 3 property boundary to define the extent of arsenic in soil above the DW criteria.	1) Restrict potable use of groundwater on-site. 2) Require exposure barrier for DC (PAHs) exceedances. 3) Handle excavated soils appropriately (e.g., don't bring to surface and use as surface cover).	

TABLE 2
RFI Phase 2 Summary Report
RACER Plants 2, 3 and 6
Investigation Summary Matrix

Investigation Area	Subarea	Associated AOI	AOI Summary	RFI Phase 1 Investigation	RFI Phase 2 Investigation Sequence/Results	Constituents of Concern > PART 201 RBSLs								Summary of Exceedances	Potential Corrective Measures	
						VOCs				Metals						
						CVOCs	BTEX	1,4-Dioxane	Other VOCs	SVOCs	PCBs	CrVI	Other			
AREA 19	NA	AOI ID 3-17	Broach Machine Filter Pit - 9' by 20' by 9' pit	Phase 1 Scope: Soil boring P3-SB-25 was advanced to 10 ft bgs, with samples collected at highest PID interval and deepest interval. Results: Metals arsenic, boron, cobalt, selenium, and vanadium detected in soil exceeding RBSLs.	I. Assessment Scope: Based on Phase 1 results, four step-out soil borings were completed to an average 15 ft bgs to define metals impacts in soils. Soil samples were collected at approximate 10 ft intervals. One VAP boring was completed to bedrock (or refusal) to characterize stratigraphy and define metals in soil vertically. VAP soil/gw samples collected at 10 ft intervals. Groundwater samples were collected from saturated permeable zones (if encountered). Results: Metals detected in soil exceeding RBSLs defined vertically and horizontally to the north, east and south. Boron detected in perched water exceeding RBSLs, defined vertically. II. Characterization Scope: Two additional step-out soil borings were completed to the south and west to 20 ft bgs to define SVOC and metals impacts in soils. Soil samples were collected at approximate 10 ft intervals. Groundwater samples collected from saturated permeable zones (if encountered). Results: SVOCs and metals in soil defined vertically and horizontally. Arsenic and boron in perched water > RBSLs not defined locally to the south.						X			X	SOIL: SVOCs > GSIP Metals > DWP, GSIP, & DC GW: Metals > DW & GSI NOTES: COCs not detected in Plant 3 storm sewer samples above GSI criteria.	1) Restrict potable use of groundwater on-site. 2) Require exposure barrier for DC (As) exceedances. 3) Handle excavated soils appropriately (e.g., don't bring to surface and use as surface cover).
AREA 20	NA	AOI 3-51	Building 304 and 305 Press Pit Operations	Phase 1 Scope: Four soil borings were advanced to an average 20 ft bgs, with samples collected at the highest PID interval and the deepest interval. Results: SVOCs detected in soil below RBSLs. Selenium detected in soil on western side of Area exceeding RBSLs.	I. Assessment Scope: Based on Phase 1 results, four step-out soil borings were completed to 20 ft bgs to define/verify SVOC impacts in soils in northern portion of area. Soil samples were collected at approximate 10 ft intervals based on field screening results. One VAP boring was completed to refusal (50 ft bgs) to characterize stratigraphy and define SVOC and metals impacts in soil vertically. VAP boring soil samples were collected at 10 ft intervals. Results: SVOCs detected in shallow soil near property boundary exceeding RBSLs; defined vertically and horizontally to the south. Cobalt detected in soil exceeding RBSLs defined vertically and horizontally to the south and west. II. Characterization Scope: Three additional step-out soil borings were completed to 20 ft bgs to define SVOC and metal impacts at the northern edge of the Area. Soil samples were collected at approximate 10 ft intervals based on field screening results. Results: SVOCs and metals detected in soil exceeding applicable RBSLs defined vertically and horizontally.						X			X	SOIL: SVOCs > GSIP Metals > DWP, GSIP & PSIC NOTES: COCs not detected in Plant 3 storm sewer samples above GSI criteria. Manganese exceedance of PSIC is deep (17-18' bgs) and not likely to be a concern for ambient air unless soil is brought to the surface.	1) Restrict potable use of groundwater on-site. 2) Handle excavated soils appropriately (e.g., don't bring to surface and use as surface cover).
AREA 21	NA	AOI 3-51	Building 304 and 305 Press Pit Operations	Phase 1 Scope: Two soil borings were advanced to 15 ft bgs, with samples collected at t he highest PID interval and the deepest interval. Results: Metals arsenic, boron, cobalt, selenium, and vanadium detected in soil exceeding RBSLs at one location.	I. Assessment Scope: Based on Phase 1 results, four step-out soil borings were completed to 15 ft bgs to assess metals impacts in soil. Soil samples were collected at approximate 10 ft intervals. Results: Metals arsenic, boron, cobalt, and selenium detected in soil exceeding RBSLs between 10-15 ft bgs, defined horizontally to the north, south, and west. II. Characterization Scope: One additional step-out soil boring was completed to 20 ft bgs to define metals impacts in soil to the east. Soil samples were collected at 10 ft intervals. Results: Metals in soil defined vertically and horizontally.									X	SOIL: Metals > DWP, GSIP, & DC NOTES: COCs not detected in Plant 3 storm sewer samples above GSI criteria.	1) Restrict potable use of groundwater on-site. 2) Require exposure barrier for DC (As) exceedances. 3) Handle excavated soils appropriately (e.g., don't bring to surface and use as surface cover).

Notes:

* - COCs indicate soil and groundwater exceedances detected during the RFI Phase 1 activities or during previous historical soil investigations.

(1) - Target analytes based on analytes detected during the RFI Phase 1 sampling activities and take into consideration the past use of the Area Of Interest, prior sampling density (i.e., assessment vs. characterization) and analytes detected upgradient and/or in surrounding AOIs.

(2) - Sampling step-out grid based on the size of the Investigation Area or AOI and the recommendations provided by the MDEQ Sampling Strategies and Statistical Training Manual (MDEQ RRD 2002); Small Area = (√A/π)/2, Large Area = (√A/π)/4 (results rounded to the nearest 5 feet)

(3) - Target media based on Phase 1 and historical results for soil and groundwater. For example, if soil impacts are defined vertically, the Phase 2 initial assessment will focus on horizontal delineation in soil first to determine if there is a viable source of target analytes before investigating groundwater.

(4) - Sample density is based on the amount of data available and the soil/groundwater analytical results for an area collected during the RFI Phase 1. For example, if an area has low-level detections of SVOCs in one or two borings and no indication of groundwater impacts, initial sampling will be completed based on field screening or otherwise at approximately 10-foot intervals ("normal") throughout the vadose zone. If soil and groundwater data suggest the area may be a source of COCs, soil and groundwater sampling will be completed at nominal 5-foot spacing ("higher resolution").

Colors - general indication of area category as defined in Section 4.1 and indication of the general priority: Green: COCs were identified in soil/gw, but (with the possible exception of metals) at concentrations below the most restrictive MDEQ Part 201 Criteria - low priority.

Yellow: Soil and/or groundwater impacts were identified at a concentration that exceeds applicable Part 201 Criteria - medium priority. Red: Soil and groundwater sampling, often combined with historical data, has identified a source of COCs that are likely

contributing to groundwater impacts beneath the Site - high priority

Abbreviations -

- VOC - volatile organic compounds
- SVOCs - semi-volatile organic compounds
- PCBs - polychlorinated biphenyls
- RBSLs - MDEQ Risk-Based Screening Levels
- DCC - Direct Contact Criteria
- DWC - Residential Drinking Water Criteria
- GC - Groundwater Contact Criteria
- GSI - Groundwater-Surface Water Interface Criteria
- DWP - Residential Drinking Water Protection Criteria
- GSIP - Groundwater-Surface Water Interface Protection Criteria
- GW_{VI,inf} - draft Groundwater Concentrations for Vapor Intrusion
- PSIC - Particulate Soil Inhalation Criteria
- SVIIC - Soil Volatilization to Indoor Air Inhalation Criteria
- VSIC - Volatile Soil Inhalation Criteria
- BTEX - benzene, toluene, ethylbenzene, xylenes
- Cr - chromium
- CrVI - hexavalent chromium
- NFA - no further action
- GW - groundwater
- PID - photoionization detector
- HPT - Hydraulic Profiling Tool
- LIF - laser induced fluorescence
- VAP - Vertical Aquifer Profile Sample
- VI - vapor intrusion

TABLE 3
RFI Phase 2 Summary Report
RACER Plant 2, 3 and 6
Summary of Groundwater Elevations

Well I.D	Screen Interval (ft bgs)	Reference Elevation (TOC)	Ground Surface Elevation	Date Collected	Measured Total Well Depth (ft. below TOC)	Depth to Water (ft. below TOC)	Depth to NAPL	Groundwater Elevation (msl)
Plant 2								
APC MW-7S	4.5-9.5	852.07	852.64	12/17/2012	NM	5.49		846.58
APC MW-7D	13.0-18.0	852.07	852.49	12/17/2012	NM	10.89		841.18
APC MW-9D	15.0-20.0	854.49	854.27	12/17/2012	NM	11.23		843.26
APC MW-8S	11.5-16.5	851.14	851.24	12/17/2012	NM	4.22		846.92
APC MW-8D	31.0-36.0	851.10	851.24	12/17/2012	NM	9.30		841.80
APC MW-4D	17.0-22.0	853.82	853.38	12/17/2012	NM	9.13		844.69
APC MW-4S	6.0-16.0	853.86	853.25	12/17/2012	NM	5.10		848.76
APC MW-6S	6.0-16.0	853.43	853.42	12/17/2012	NM	4.69		848.74
APC MW-6D	19.2-24.2	853.25	853.42	12/17/2012	NM	8.30		844.95
APC MW-2D	11.0-21.0	859.49	858.52	12/17/2012	NM	16.10		843.39
APC MW-5D	10.0-20.0	857.92	858.49	12/17/2012	NM	8.90		849.02
APC MW-12S	15.0-20.0	852.73	854.19	12/17/2012	NM	5.50		847.23
APC MW-12D	24.0-29.0	852.57	854.19	12/17/2012	NM	5.46		847.11
APC MW-11S	13.5-18.5	856.22	853.77	12/17/2012	NM	8.38		847.84
APC MW-11D	24.0-29.0	855.76	853.77	12/17/2012	NM	8.55		847.21
LMW-12-01	7.0-12.0	864.91	862.14	12/17/2012	NM	13.89	13.86	851.05
LMW-12-02	5.0-10.0	865.25	862.17	12/17/2012	NM	9.95		855.30
LMW-12-03S	4.0-9.0	864.93	862.06	12/17/2012	NM	8.60		856.33
LMW-12-03D	17.3-22.3	864.99	862.08	12/17/2012	NM	18.10	12.45	851.97
LMW-12-04	16.0-21.0	864.94	862.12	12/17/2012	NM	12.19	12.15	852.79
LMW-12-05	7.0-12.0	865.03	862.17	12/17/2012	NM	13.75	13.73	851.30
LMW-12-06	4.0-9.0	865.02	862.15	12/17/2012	NM	7.26		857.76
LMW-12-07	4.0-9.0	864.13	861.50	12/17/2012	NM	6.49	6.47	857.66
LMW-12-08	8.0-13.0	864.40	861.56	12/17/2012	NM	9.95	9.92	854.48
MW-01(2)	10.0-20.0	875.79	876.10	12/17/2012	NM	10.90		864.89
MW-02(2)	12.0-22.0	875.96	876.20	12/17/2012	NM	11.29		864.67
MW-03(2)	12.0-22.0	876.70	876.79	12/17/2012	NM	11.27		865.43
MW-12-01	87.0-110.0	867.94	865.46	12/17/2012	NM	76.33		791.61
MW-12-02	87.0-110.0	853.91	851.88	12/17/2012	NM	66.25		787.66
MW-12-05	75.0-99.0	865.19	862.23	12/17/2012	NM	73.25		791.94
MW-12-06	80.6-99.5	864.64	861.69	12/17/2012	NM	73.93		790.71
MW-12-07	10.0-15.0	872.11	869.21	12/17/2012	NM	10.10		862.01
MW-12-08	19.0-24.0	864.53	861.55	12/17/2012	NM	9.84		854.69
MW-12-09	14.0-19.0	863.54	860.63	12/17/2012	NM	15.74		847.80
MW-12-17	9.5-14.5	876.43	875.92	12/17/2012	NM	11.02		865.41
MW-12-18	28.0-33.0	866.82	863.86	12/17/2012	NM	26.94		839.88
P2-MW-01	31.0-36.0	858.00	858.35	12/17/2012	NM	16.18		841.82
P2-MW-02	31.0-41.0	872.24	872.70	12/17/2012	NM	38.78		833.46
P2-MW-03	27.0-32.0	854.18	854.66	12/17/2012	NM	10.82		843.36
P2-MW-04	26.0-36.0	862.28	862.59	12/17/2012	NM	NM		NA
P2-SB-03	14.0-19.0	863.89	861.03	12/17/2012	NM	19.01		844.88
P2-SB-06	24.0-29.0	866.06	862.09	12/17/2012	NM	20.12		845.94
P2-SB-20	8.0-13.0	862.99	861.16	12/17/2012	NM	9.11		853.88
P2-SB-37	5.0-10.0	865.90	861.90	12/17/2012	NM	8.15	7.61	858.24
PMW-01	2.6-7.6	860.85	861.33	12/17/2012	NM	2.69	2.01	858.77
PMW-02	2.6-7.6	861.12	861.50	12/17/2012	NM	2.75	2.41	858.68
PMW-03	1.2-6.2	861.59	862.12	12/17/2012	NM	2.12	2.08	859.50

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Plant 3								
CH-14-RO	7.0-12.0	866.44	863.68	12/17/2012	NM	10.42		856.02
LMW-12-09	3.0-8.0	863.22	860.40	12/17/2012	NM	5.36		857.86
LMW-12-10	14.0-19.0	866.82	863.60	12/17/2012	NM	9.58		857.24
LMW-12-11	15.0-20.0	866.53	863.53	12/17/2012	NM	14.93		851.6
MW-01(3)	55.0-65.0	859.72	860.11	12/17/2012	NM	53.93		805.79
MW-02 (UNK-12)	11.0-16.0	859.86	860.12	12/17/2012	16.00	5.14		854.72
MW-02-01(3)	59.0-69.0	865.54	863.35	12/17/2012	71.60	54.72		810.82
MW-02-02(3)	74.0-84.0	862.70	863.11	12/17/2012	84.00	66.16		796.54
MW-02-03(3)	79.0-89.0	859.63	859.90	12/17/2012	89.50	64.08		795.55
MW-02-04	76.0-86.0	862.61	862.93	12/17/2012	84.55	64.22		798.39
MW-03(3)	8.0-13.0	859.50	859.96	12/17/2012	NM	4.73		854.77
MW-04(3)	10.5-15.5	859.40	859.79	12/17/2012	NM	4.82		854.58
MW-04-01(3)	95.0-105.0	862.61	862.93	12/17/2012	NM	53.89		808.72
MW-04-02	126.0-136.0	861.09	861.26	12/17/2012	136.00	66.29		794.80
MW-04-03	80.0-90.0	860.72	861.00	12/17/2012	88.25	65.22		795.50
MW-04-04	72.0-82.0	855.72	856.11	12/17/2012	NM	62.50		793.22
MW-05(3)	10.0-15.0	859.02	859.79	12/17/2012	NM	4.78		854.24
MW-06(3)	6.5-11.5	859.52	859.79	12/17/2012	11.30	4.30		855.22
MW-12-04	77.0-100.0	844.08	844.26	12/17/2012	100.00	50.54		793.54
MW-12-19	5.0-10.0	859.55	859.96	12/17/2012	10.00	5.51		854.04
MW-12-20	75.0-80.0	864.20	861.45	12/17/2012	80.00	64.56		799.64
MW-12-21	70.0-75.0	864.50	861.45	12/17/2012	75.00	66.72		797.78
MW-19	55.0-65.0	859.74	859.92	12/17/2012	65.00	54.88		804.86
MW-22	52.5-62.5	859.69	860.08	12/17/2012	62.78	54.02		805.67
MW-23	52.0-62.0	859.45	859.76	12/17/2012	62.68	53.38		806.07
MW-88-1	103.0-140.0	858.75	859.06	12/17/2012	140.00	70.85		787.90
UNK-15	11.0-16.0	859.56	859.94	12/17/2012	15.41	4.02		855.54
MW-91-2	68.0-78.0	863.62	863.88	12/17/2012	76.64	62.22		801.40
MW-91-3	107.0-117.0	860.81	859.35	12/17/2012	NM	70.36		790.45
MW-91-4	116.0-132.5	855.59	855.93	12/17/2012	132.50	60.18		795.41
MW-91-5	112.5-128.0	860.61	861.20	12/17/2012	NM	64.56		796.05
MW-93-1	65.0-75.0	866.05	863.56	12/17/2012	71.00	69.23		DRY
P3-SB-07	11.0-16.0	866.84	863.63	12/17/2012	16.00	9.92		856.92
P3-SB-28	8.0-13.0	866.43	863.63	12/17/2012	13.00	7.38		859.05
UNK-09	11.0-16.0	859.42	860.02	12/17/2012	NM	2.79		856.63
UNK-10	11.0-16.0	859.34	860.05	12/17/2012	NM	3.56		855.78
UNK-11	6.5-11.5	859.91	860.17	12/17/2012	NM	5.48		854.43
UNK-13	11.0-16.0	859.11	859.91	12/17/2012	NM	4.47		854.64
UNK-14	10.4-15.4	859.32	859.70	12/17/2012	NM	5.75	3.94	853.57

TABLE 3
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Summary of Groundwater Elevations

Well I.D	Screen Interval (ft bgs)	Reference Elevation (TOC)	Ground Surface Elevation	Date Collected	Measured Total Well Depth (ft. below TOC)	Depth to Water (ft. below TOC)	Depth to NAPL	Groundwater Elevation (msl)
Plant 6								
B-BP-16	7.0-12.0	869.38	869.63	12/17/2012	NM	6.92		862.46
P6-MW-01	23.0-28.0	870.10	866.87	12/17/2012	NM	28.71		841.39
P6-SB-07	15.0-20.0	877.36	874.36	12/17/2012	NM	9.39		867.97
P6-SB-18	3.0-8.0	878.46	874.60	12/17/2012	NM	5.57		872.89
P6-SB-21	3.0-8.0	874.20	870.92	12/17/2012	NM	4.59		869.61
P6-SB-32	7.0-12.0	877.79	873.79	12/17/2012	NM	9.96		867.83
P6-SB-35	3.0-8.0	874.84	NS	12/18/2012	NM	2.92		871.92
P6-SB-37	5.0-10.0	878.12	874.32	12/17/2012	NM	7.70		870.42
MW-02-01(6)	35-45	865.54	863.35	12/17/2012	NM	27.97		837.57
MW-02-02(6)	74.0-84.0	868.04	868.41	12/17/2012	NM	30.24		837.80
MW-02-03(6)	79.0-89.0	869.54	869.97	12/17/2012	NM	30.83		838.71
MW-03-01	28.0-32.0	861.37	861.88	12/17/2012	NM	23.84		837.53
MW-03-02	30.0-40.0	864.52	864.76	12/17/2012	NM	23.16		841.36
MW-03-04	33.0-43.0	865.28	865.53	12/17/2012	NM	23.35		841.93
MW-03-05	35.0-45.0	868.90	869.14	12/17/2012	NM	18.69		850.21
MW-03-06	30.0-40.0	870.45	870.80	12/17/2012	NM	36.39		834.06
MW-03-07	30.0-40.0	866.88	867.02	12/17/2012	NM	26.75		840.13
MW-03-08	35.0-45.0	869.03	869.39	12/17/2012	NM	33.66		835.37
MW-04-01(6)	78.0-88.0	866.85	867.15	12/17/2012	NM	73.57		793.28
MW-04-05	20.0-30.0	858.33	858.87	12/17/2012	NM	10.35		847.98
MW-04-06	88.0-98.0	858.44	858.80	12/17/2012	NM	63.87		794.57
MW-12-03	57.0-80.0	859.10	856.71	12/17/2012	NM	66.71		792.39
MW-12-10	8.0-13.0	860.89	858.82	12/17/2012	NM	10.38		850.51
MW-12-11	13.0-18.0	857.26	857.68	12/17/2012	NM	9.46		847.80
MW-12-12	13.0-18.0	874.34	874.61	12/17/2012	NM	10.26		864.08
MW-12-13	18.0-23.0	882.60	880.51	12/17/2012	NM	NM		NA
MW-12-14	25.0-30.0	872.56	869.28	12/16/2012	NM	26.26		846.30
MW-12-15	18.0-23.0	865.23	865.49	12/17/2012	NM	19.53		845.70
MW-12-16	28.0-33.0	864.24	864.73	12/17/2012	NM	22.93		841.31
MWBP-10-UST1-4	15.0-25.0	868.07	868.53	12/17/2012	NM	5.91		862.16
MWBP-10-UST5-6	28.0-38.0	867.70	867.99	12/17/2012	NM	NM		NA
MWBP-10A-UST1-4	28.0-38.0	866.66	867.62	12/17/2012	NM	1.74		864.92
MWBP-11-UST1-4	9.0-19.0	868.66	869.07	12/17/2012	NM	3.23		865.43
MWBP-12-UST1-4	15.0-25.0	870.02	870.58	12/17/2012	NM	7.40		862.62
MWBP-12A-UST1-4	28.0-38.0	869.74	869.96	12/17/2012	NM	30.30		839.44
MWBP-13A-UST1-4	33-38	869.99	870.10	12/17/2012	NM	32.80		837.19
SME-MW-02	33.0-38.0	869.30	NS	12/17/2012	NM	35.28		834.02
UNK-03	7.0-12.0	868.85	869.14	12/17/2012	NM	5.79		863.06

Footnotes:

TOC - Top of Casing
MSL - Mean Sea Level
NA - Not Applicable
NM - Not measured
NS - Not Surveyed

Correction for NAPL - LNAPL specific gravity = 0.8995, DTW = DTW - SpG*(DTW-DTP)

TABLE 4
RFI Phase 2 Summary Report
RACER Plants 2, 3 and 6
Summary of Groundwater Monitoring Well Inventory

Well ID	Date of Installation	Northing 	Easting	Ground Surface Elevation	TOC Elevation	Screen Interval (ft bgs)		Relative Screen Elevation Interval (NAD 83)		Aquifer Thickness (confined Units only)	Depth to Groundwater (12/17/12)	Groundwater Elevation (12/17/12)	Well Construction			Nearby AOIs	Hydrostratigraphic Unit	Comments
						Top	Bottom	Top	Bottom				Diameter of Well Casing	Riser Construction	Screen Construction			
		feet	feet	feet msl	feet msl	feet bgs	feet bgs	feet msl	feet msl	feet	feet toc	feet msl						
Plant 2 - Well Inventory																		
MW-01(2)	10/4/1993	450064.14	13064309.05	876.10	875.79	10.00	20.00	866.10	856.10	GW Not Observed During Drilling	10.90	864.89	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	2-16	Interbedded Zone	
MW-02(2)	10/5/1993	450123.13	13064356.15	876.20	875.96	12.00	22.00	864.20	854.20	GW Not Observed During Drilling	11.29	864.67	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	2-16	Interbedded Zone	
MW-03(2)	10/4/1993	450122.09	13064261.41	876.79	876.70	12.00	22.00	864.79	854.79	GW Not Observed During Drilling	11.27	865.43	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	2-16	Interbedded Zone	
MW-12-01	3/23/2012	450727.45	13064152.78	865.46	867.94	87.00	110.00	778.46	755.46	Unconfined	76.33	791.61	4.00	Welded Steel	Open Borehole	2-12	Bedrock	
MW-12-02	3/23/2012	452024.77	13064174.13	851.88	853.91	87.00	110.00	764.88	741.88	Unconfined	66.25	787.66	4.00	Welded Steel	Open Borehole	None	Bedrock	
MW-12-05	9/11/2012	451148.79	13064548.08	862.23	865.19	75.00	99.00	787.23	763.23	Unconfined	73.25	791.94	4.00	Welded Steel	Open Borehole	2-16	Bedrock	
MW-12-06	9/13/2012	451129.16	13064994.08	861.69	864.64	80.60	99.50	781.09	762.19	Unconfined	73.93	790.71	4.00	Welded Steel	Open Borehole	2-6	Bedrock	
MW-12-07	11/13/2012	450498.04	13064252.01	869.21	872.11	10.00	15.00	859.21	854.21	3.50	10.10	862.01	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	2-12	Interbedded Zone	
MW-12-08	11/14/2012	450485.74	13064754.58	861.55	864.53	19.00	24.00	842.55	837.55	3.50	9.84	854.69	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	2-1	Interbedded Zone	
MW-12-09	11/14/2012	451056.56	13064078.58	860.63	863.54	14.00	19.00	846.63	841.63	5.00	15.74	847.80	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	2-14	Interbedded Zone	
MW-12-17	11/20/2012	450199.93	13064303.87	875.92	876.43	9.50	14.50	866.42	861.42	1.50	11.02	865.41	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	2-16	Shallow Sand & Fill	
MW-12-18	11/20/2012	450813.00	13064052.00	863.86	866.82	28.00	33.00	835.86	830.86	2.00	26.94	839.88	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	2-12	Interbedded Zone	
LMW-12-01	11/13/2012	451120.27	13064648.23	862.14	864.91	7.00	12.00	855.14	850.14	2.80	13.89	851.02	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	2-26	Interbedded Zone	
LMW-12-02	11/14/2012	451205.26	13064674.51	862.17	865.25	5.00	10.00	857.17	852.17	1.50	9.95	855.30	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	2-26	Shallow Sand & Fill	
LMW-12-03S	11/14/2012	451115.82	13064727.81	862.06	864.93	4.00	9.00	858.06	853.06	2.40	8.60	856.33	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	2-26	Shallow Sand & Fill	
LMW-12-03D	11/13/2012	451115.83	13064729.75	862.08	864.99	17.30	22.30	844.78	839.78	3.30	18.10	846.89	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	2-26	Interbedded Zone	
LMW-12-04	11/15/2012	451053.61	13064731.15	862.12	864.94	16.00	21.00	846.12	841.12	1.00	12.19	852.75	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	2-14	Interbedded Zone	
LMW-12-05	11/15/2012	451046.32	13064603.83	862.17	865.03	7.00	12.00	855.17	850.17	3.10	13.75	851.28	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	2-26	Interbedded Zone	
LMW-12-06	11/15/2012	451076.10	13064445.41	862.15	865.02	4.00	9.00	858.15	853.15	1.00	7.26	857.76	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	2-23	Shallow Sand & Fill	
LMW-12-07	11/15/2012	451142.83	13064885.30	861.50	864.13	4.00	9.00	857.50	852.50	5.00	6.49	857.64	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	2-36	Shallow Sand & Fill	
LMW-12-08	11/16/2012	451205.97	13064826.33	861.56	864.40	8.00	13.00	853.56	848.56	5.00	9.95	854.45	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	2-36	Shallow Sand & Fill	
P2-MW-01	7/20/2011	451906.69	13065246.92	858.35	858.00	31.00	36.00	827.35	822.35	14.09	16.18	841.82	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	None	Interbedded Zone	Not set in a permeable material (SILT)
P2-MW-02	7/22/2011	450466.54	13065199.17	872.70	872.24	31.00	41.00	841.70	831.70	12.00	38.78	833.46	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	2-1	Interbedded Zone	Not set in a permeable material (CLAY and SILT)
P2-MW-03	7/19/2011	451803.07	13064264.81	854.66	854.18	27.00	32.00	827.66	822.66	4.50	10.82	843.36	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	None	Interbedded Zone	Not set in a permeable material (CLAY)
P2-MW-04	7/21/2011	451167.08	13065470.95	862.59	862.28	26.00	36.00	836.59	826.59	10.00	NM	NM	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	2-15	Interbedded Zone	Not set in a permeable material (CLAY and SILT)
P2-SB-03	9/8/2011	451540.50	13065461.90	861.03	863.89	14.00	19.00	847.03	842.03	2.00	19.01	844.88	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	2-39	Interbedded Zone	
P2-SB-06	9/1/2011	451033.50	13065124.60	862.09	866.06	24.00	29.00	838.09	833.09	3.00	20.12	845.94	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	2-59	Interbedded Zone	
P2-SB-20	8/29/2011	451528.50	13064761.90	861.16	862.99	8.00	13.00	853.16	848.16	1.50	9.11	853.88	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	2-49	Interbedded Zone	
P2-SB-37	8/31/2011	451107.17	13064824.47	861.90	865.90	5.00	10.00	856.90	851.90	GW Not Observed During Drilling	8.15	NS	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	2-52	Shallow Sand & Fill	Not set in a permeable material (CLAY)
PMW-01	10/11/2012	451137.40	13064806.00	861.33	860.85	2.59	7.59	858.74	853.74	0.30	2.69	858.16	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	5-2	Shallow Sand & Fill	
PMW-02	10/11/2012	451137.70	13064841.60	861.50	861.12	2.59	7.59	858.91	853.91	0.09	2.75	858.37	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	5-2	Shallow Sand & Fill	
PMW-03	10/12/2012	451068.40	13064823.20	862.12	861.59	1.20	6.20	860.92	855.92	0.60	2.12	859.47	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	5-2	Shallow Sand & Fill	

TABLE 4
RFI Phase 2 Summary Report
RACER Plants 2, 3 and 6
Summary of Groundwater Monitoring Well Inventory

Well ID	Date of Installation	Northing 	Easting	Ground Surface Elevation	TOC Elevation	Screen Interval (ft bgs)		Relative Screen Elevation Interval (NAD 83)		Aquifer Thickness (confined Units only)	Depth to Groundwater (12/17/12)	Groundwater Elevation (12/17/12)	Well Construction			Nearby AOIs	Hydrostratigraphic Unit	Comments
						Top	Bottom	Top	Bottom				Diameter of Well Casing	Riser Construction	Screen Construction			
		feet	feet	feet msl	feet msl	feet bgs	feet bgs	feet msl	feet msl	feet	feet toc	feet msl						
Plant 3 - Well Inventory																		
MW-01(3)	NA	453855.01	13065030.89	860.11	859.72	55.00	65.00	805.11	795.11	NA	53.93	805.79	NA	NA	NA	3-9	Deep Overburden	No Log
MW-03(3)	NA	453867.51	13065033.11	859.96	859.50	8.00	13.00	851.96	846.96	NA	4.73	854.77	NA	NA	NA	3-9	NA	No Log
MW-04(3)	NA	453877.70	13065034.80	859.79	859.40	10.50	15.50	849.29	844.29	NA	4.82	854.58	NA	NA	NA	3-9	NA	No Log
MW-05(3)	NA	453872.10	13065048.05	859.79	859.02	10.00	15.00	849.79	844.79	NA	4.78	854.24	NA	NA	NA	3-9	NA	No Log
MW-06(3)	NA	453855.26	13065008.51	859.79	859.52	6.50	11.50	853.29	848.29	NA	4.30	855.22	NA	NA	NA	3-9	NA	No Log
MW-19	8/13/1991	453860.70	13064981.01	859.92	859.74	55.00	65.00	804.92	794.92	NA	54.88	804.86	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	3-9	Deep Overburden	
MW-22	8/30/1991	453769.92	13065026.27	860.08	859.69	52.50	62.50	807.58	797.58	NA	54.02	805.67	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	3-9	Deep Overburden	
MW-23	8/21/1991	453861.50	13065075.09	859.76	859.45	52.00	62.00	807.76	797.76	NA	53.38	806.07	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	3-9	Deep Overburden	
MW-02-01(3)	10/22/2002	453155.13	13065339.77	863.35	865.54	59.00	69.00	804.35	794.35	9.00	54.72	810.82	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	3-11	Deep Overburden	
MW-02-02(3)	10/24/2002	454034.92	13064474.74	863.11	862.70	74.00	84.00	789.11	779.11	3.50	66.16	796.54	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	3-10	Deep Overburden	
MW-02-03(3)	10/29/2002	454271.51	13064590.66	859.90	859.63	79.00	89.00	780.90	770.90	0.30	64.08	795.55	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	3-10	Deep Overburden	
MW-02-04(3)	10/31/2002	454274.93	13064776.01	859.67	859.35	76.00	86.00	783.67	773.67	1.00	64.22	795.13	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	3-10	Deep Overburden	
MW-04-01(3)	9/21/2004	453141.43	13065340.68	862.93	862.61	95.00	105.00	767.93	757.93	Unconfined	53.89	808.72	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	3-11	Bedrock	
MW-04-02(3)	10/4/2004	454134.95	13064314.25	861.26	861.09	126.00	136.00	735.26	725.26	Unconfined	66.29	794.80	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	3-10	Bedrock	
MW-04-03(3)	9/30/2004	454144.89	13064314.30	861.00	860.72	80.00	90.00	781.00	771.00	NA	65.22	795.50	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	3-10	Deep Overburden	
MW-04-04(3)	9/27/2004	454798.72	13064736.80	856.11	855.72	72.00	82.00	784.11	774.11	NA	62.50	793.22	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	None	Deep Overburden	
MW-88-1	9/22/1988	454598.49	13065446.96	859.06	858.75	103.50	140.00	755.56	719.06	Unconfined	70.85	787.90	Not Recorded	Not Recorded	Open Borehole	None	Bedrock	Upper Shale from 73.0-84.0' bgs.
UNK-15	8/7/1991	453899.91	13064987.27	859.94	859.56	11.00	16.00	848.94	843.94	6.00	4.02	855.54	4.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	3-9	NA	Formally assumed to be MW-91-1
MW-91-2	8/23/1991	453885.88	13064780.47	863.88	863.62	68.00	78.00	795.88	785.88	4.00	62.22	801.40	4.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	3-10	Deep Overburden	
MW-91-3	7/24/1991	454091.09	13065327.67	859.35	860.81	105.00	117.00	754.35	742.35	Unconfined	70.36	790.45	2.00	Sch. 40 PVC	Open Borehole	None	Bedrock	
MW-91-4	7/25/1991	454789.15	13064736.68	855.93	855.59	116.00	132.50	739.93	723.43	Unconfined	60.18	795.41	2.00	Sch. 40 PVC	Open Borehole	None	Bedrock	
MW-91-5	7/31/1991	452815.88	13063280.78	861.20	860.61	112.50	128.00	748.70	733.20	Unconfined	64.56	796.05	2.00	Sch. 40 PVC	Open Borehole	3-11	Bedrock	
MW-93-1	10/18/1993	454034.29	13064984.27	863.56	866.05	65.00	75.00	798.56	788.56	5.00	69.23	796.82	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	3-6	Deep Overburden	
CH-14-RO	8/15/2011	453852.60	13064757.80	863.68	866.44	7.00	12.00	856.68	851.68	2.00	10.42	856.02	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	3-10	Shallow Sand & Fill	
UNK-09	NA	453812.52	13065012.43	860.02	859.42	11.00	16.00	849.02	844.02	NA	2.79	856.63	NA	NA	NA	3-9	NA	No Log
UNK-10	NA	453817.08	13065032.61	860.05	859.34	11.00	16.00	849.05	844.05	NA	3.56	855.78	NA	NA	NA	3-9	NA	No Log
UNK-11	NA	453852.83	13065032.74	860.17	859.91	6.50	11.50	853.67	848.67	NA	5.48	854.43	NA	NA	NA	3-4	NA	No Log
MW-02 (UNK-12)	NA	453852.80	13065032.80	860.12	859.86	11.00	16.00	849.12	844.12	NA	5.14	854.72	4.00	NA	NA	NA	NA	No Log
UNK-13	NA	453879.54	13064981.56	859.91	859.11	11.00	16.00	848.91	843.91	NA	4.47	854.64	NA	NA	NA	3-6	NA	No Log
UNK-14	NA	453877.70	13065034.80	859.70	859.32	10.40	15.40	849.30	844.30	NA	5.75	853.57	NA	NA	NA	NA	NA	No Log
P3-SB-07	8/15/2011	454067.80	13064517.00	863.63	866.84	11.00	16.00	852.63	847.63	11.00	9.92	856.92	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	3-10	Interbedded Zone	
P3-SB-28	8/16/2011	453618.90	13064925.70	863.63	866.43	8.00	13.00	855.63	850.63	6.00	7.38	859.05	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	3-3	Shallow Sand & Fill	
MW-12-04	3/30/2012	454205.81	13063152.45	844.26	844.08	77.00	100.00	767.26	744.26	Unconfined	50.54	793.54	4.00	Welded Steel	Open Borehole	None	Bedrock	
MW-12-19	11/20/2012	453634.66	13065094.10	859.96	859.55	5.00	10.00	854.96	849.96	2.00	5.51	854.04	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	3-3	Interbedded Zone	
MW-12-20	11/21/2012	453134.61	13063520.40	861.45	864.20	75.00	80.00	786.45	781.45	5.00	64.56	799.64	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	3-51	Deep Overburden	
MW-12-21	11/26/2012	452840.74	13063775.27	861.45	864.50	70.00	75.00	791.45	786.45	1.25	66.72	797.78	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	3-54	Deep Overburden	
LMW-12-09	11/19/2012	453884.07	13064945.48	860.40	863.22	3.00	8.00	857.40	852.40	0.50	5.36	857.86	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	3-6	Shallow Sand & Fill	
LMW-12-10	11/20/2012	453626.93	13064967.47	863.60	866.82	14.00	19.00	849.60	844.60	0.30	9.58	857.24	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	3-3	Glacial Till	
LMW-12-11	11/20/2012	453630.25	13064937.70	863.53	866.53	15.00	20.00	848.53	843.53	3.00	14.93	851.60	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	3-3	Glacial Till	

TABLE 4
RFI Phase 2 Summary Report
RACER Plants 2, 3 and 6
Summary of Groundwater Monitoring Well Inventory

Well ID	Date of Installation	Northing 	Easting	Ground Surface Elevation	TOC Elevation	Screen Interval (ft bgs)		Relative Screen Elevation Interval (NAD 83)		Aquifer Thickness (confined Units only)	Depth to Groundwater (12/17/12)	Groundwater Elevation (12/17/12)	Well Construction			Nearby AOIs	Hydrostratigraphic Unit	Comments
						Top	Bottom	Top	Bottom				Diameter of Well Casing	Riser Construction	Screen Construction			
		feet	feet	feet msl	feet msl	feet bgs	feet bgs	feet msl	feet msl	feet	feet toc	feet msl						
Plant 6 - Well Inventory																		
MW-02-01(6)	11/7/2002	451191.50	13065779.43	863.35	865.54	35.00	45.00	828.35	818.35	3.50	27.97	837.57	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	6-18	Glacial Till	
MW-02-02(6)	11/8/2002	451088.78	13065800.45	868.41	868.04	35.00	45.00	833.41	823.41	2.50	30.24	837.80	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	6-18	Glacial Till	
MW-02-03(6)	11/11/2002	451140.79	13065861.13	869.97	869.54	35.00	45.00	834.97	824.97	4.00	30.83	838.71	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	6-18	Glacial Till	
MW-03-01	7/28/2003	451476.20	13065961.68	861.88	861.37	28.00	33.00	833.88	828.88	3.00	23.84	837.53	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	6-88	Glacial Till	
MW-03-02	7/29/2003	451482.41	13065817.31	864.76	864.52	30.00	40.00	834.76	824.76	6.50	23.16	841.36	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	6-88	Glacial Till	
MW-03-04	7/30/2003	451293.35	13065626.49	865.53	865.28	33.00	43.00	832.53	822.53	7.00	23.35	841.93	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	6-18	Glacial Till	
MW-03-05	8/14/2003	451281.30	13066081.70	869.14	868.90	35.00	45.00	834.14	824.14	2.50	18.69	850.21	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	6-48	Glacial Till	
MW-03-06	7/31/2003	451068.44	13066073.87	870.80	870.45	30.00	40.00	840.80	830.80	2.50	36.39	834.06	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	6-18	Glacial Till	
MW-03-07	7/31/2003	451149.13	13065609.45	867.02	866.88	30.00	40.00	837.02	827.02	15.50	26.75	840.13	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	6-18	Glacial Till	
MW-03-08	8/5/2003	450960.41	13065874.16	869.39	869.03	35.00	45.00	834.39	824.39	5.00	33.66	835.37	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	6-18	Glacial Till	
MW-04-01(6)	9/29/2004	451140.71	13065609.74	867.15	866.85	78.00	88.00	789.15	779.15	Unconfined	73.57	793.28	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	6-18	Bedrock	
MW-04-05(6)	10/8/2004	451557.86	13066119.66	858.87	858.33	20.00	30.00	838.87	828.87	3.50	10.35	847.98	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	None	Interbedded Zone	
MW-04-06(6)	10/11/2004	451570.77	13066119.72	858.80	858.44	88.00	98.00	770.80	760.80	Unconfined	63.87	794.57	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	None	Bedrock	
SME-MW-02	3/13/1998	451029.06	13065817.18	NS	869.30	33.00	38.00	836.30	831.30	2.50	NM	NS	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	6-18	Glacial Till	
MWBP-10-UST1-4	8/28/1991	449811.15	13065612.27	868.53	868.07	15.00	25.00	853.53	843.53	1.50	5.91	862.16	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	6-17	Interbedded Zone	
MWBP-10A-UST1-4	10/31/1993	449801.06	13065590.33	867.62	866.66	28.00	38.00	839.62	829.62	9.50	1.74	864.92	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	6-17	Interbedded Zone	
MWBP-11-UST1-4	10/20/1993	449842.32	13065593.49	869.07	868.66	9.00	19.00	860.07	850.07	5.00	3.23	865.43	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	6-17	Interbedded Zone	
MWBP-12-UST1-4	8/27/1991	449841.67	13065637.57	870.58	870.02	15.00	25.00	855.58	845.58	3.00	7.40	NM	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	6-17	Interbedded Zone	
MWBP-12A-UST1-4	10/30/1993	449830.05	13065636.69	869.96	869.74	28.00	38.00	841.96	831.96	6.00	30.30	NM	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	6-17	Interbedded Zone	
MWBP-12-UST5-6	11/16/1993	449904.62	13065435.89	NS	NS	28.00	38.00	NA	NA	NA	NM	NS	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	6-33	Interbedded Zone	
MWBP-13A-UST1-4	8/27/1991	449880.64	13065577.20	870.10	869.99	28.00	38.00	841.99	831.99	4.00	32.80	837.30	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	6-17	Interbedded Zone	
MWBP-10-UST5-6	10/19/1993	449788.53	13065429.06	867.99	867.70	28.00	38.00	839.99	829.99	3.00	NM	NM	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	6-69	Interbedded Zone	
B-BP-16	11/2/1993	449823.27	13065636.10	869.63	869.38	7.00	12.00	862.63	857.63	GW Not Observed During Drilling	6.92	NM	2.00	Not Recorded	Not Recorded	6-17	NA	Log ends at 6.0' bgs.
UNK-03	NA	449831.50	13065612.58	869.14	868.85	7.00	12.00	862.14	857.14	NA	5.79	863.06	4.00	NA	NA	6-17	NA	No Log
P6-MW-01	8/5/2011	449757.72	13065805.54	866.87	870.10	23.00	28.00	843.87	838.87	4.50	28.71	NM	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	None	Interbedded Zone	
P6-SB-07	8/9/2011	450352.70	13065933.70	874.36	877.36	15.00	20.00	859.36	854.36	1.50	9.39	867.97	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	6-11	Interbedded Zone	
P6-SB-18	8/3/2011	451201.10	13066529.90	874.60	878.46	3.00	8.00	871.60	866.60	GW Not Observed During Drilling	5.57	872.89	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	6-81	Shallow Sand & Fill	Not set in a permeable material (CLAY)
P6-SB-21	8/2/2011	450697.60	13066243.90	870.92	874.20	3.00	8.00	867.92	862.92	0.50	4.59	869.61	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	6-87	Shallow Sand & Fill	
P6-SB-32	8/8/2011	450108.20	13065606.50	873.79	877.79	7.00	12.00	866.79	861.79	1.50	9.96	867.83	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	6-60	Interbedded Zone	
P6-SB-37	8/3/2011	451031.50	13066649.20	874.32	878.12	5.00	10.00	869.32	864.32	2.50	7.70	870.42	2.00	Sch. 40 PVC	0.010 Slot Sch. 40 PVC	6-81	Shallow Sand & Fill	Not set in a permeable material (CLAY)
MW-12-03	3/26/2012	452131.18	13066087.92	856.71	859.10	57.00	80.00	799.71	776.71	Unconfined	66.71	792.39	4.00	Welded Steel	Open Borehole	None	Bedrock	
MW-12-10	11/14/2012	451686.86	13066122.44	858.82	860.89	8.00	13.00	850.82	845.82	2.00	10.38	850.51	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	None	Interbedded Zone	
MW-12-11	11/15/2012	451558.54	13066261.39	857.68	857.26	13.00	18.00	844.68	839.68	2.50	9.46	847.80	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	Offsite	Interbedded Zone	
MW-12-12	11/15/2012	451422.76	13066519.75	874.61	874.34	13.00	18.00	861.61	856.61	2.00	10.26	864.08	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	6-81	Interbedded Zone	
MW-12-13	11/16/2012	451200.93	13066731.92	880.51	882.60	18.50	23.50	862.01	857.01	2.00	11.53*	871.07*	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	None	Interbedded Zone	
MW-12-14	11/17/2012	449796.21	13066692.81	869.28	872.56	25.00	30.00	844.28	839.28	Bottom not noted	26.26	846.30	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	None	Interbedded Zone	
MW-12-15	11/19/2012	449681.67	13065813.21	865.49	865.23	18.00	23.00	847.49	842.49	4.00	19.53	845.70	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	Offsite	Interbedded Zone	
MW-12-16	11/19/2012	449682.65	13065745.73	864.73	864.24	28.00	33.00	836.73	831.73	4.00	22.93	841.31	2.00	Sch. 40 PVC	0.010 Slot Stainless Steel	Offsite	Interbedded Zone	

TABLE 4
RFI Phase 2 Summary Report
RACER Plants 2, 3 and 6
Summary of Groundwater Monitoring Well Inventory

Well ID	Date of Installation	Northing 	Easting	Ground Surface Elevation	TOC Elevation	Screen Interval (ft bgs)		Relative Screen Elevation Interval (NAD 83)		Aquifer Thickness (confined Units only)	Depth to Groundwater (12/17/12)	Groundwater Elevation (12/17/12)	Well Construction			Nearby AOIs	Hydrostratigraphic Unit	Comments
						Top	Bottom	Top	Bottom				Diameter of Well Casing	Riser Construction	Screen Construction			
		feet	feet	feet msl	feet msl	feet bgs	feet bgs	feet msl	feet msl	feet	feet toc	feet msl						
Offsite - Well Inventory																		
APC MW-7S	6/16/1992	451961.12	13063934.88	852.64	852.07	4.50	9.50	848.14	843.14	1.00	5.49	846.58	2.00	Stainless Steel	0.010 Slot Stainless Steel	Offsite	Interbedded Zone	
APC MW-7D	6/16/1992	451958.51	13063939.22	852.49	852.07	13.00	18.00	839.49	834.49	0.50	10.89	841.18	2.00	Stainless Steel	0.010 Slot Stainless Steel	Offsite	Interbedded Zone	
APC MW-9D	Not Recorded	451800.53	13063940.95	854.27	854.49	15.00	20.00	839.27	834.27	3.00	11.23	843.26	2.00	Not Recorded	Not Recorded	Offsite	Interbedded Zone	
APC MW-8S	6/17/1992	451896.88	13064059.01	851.24	851.14	11.50	16.50	839.74	834.74	2.00	4.22	846.92	2.00	Stainless Steel	0.010 Slot Stainless Steel	Offsite	Interbedded Zone	
APC MW-4D	6/15/1992	451660.77	13063990.43	853.38	853.82	17.00	22.00	836.38	831.38	0.50	9.13	844.69	2.00	Stainless Steel	0.010 Slot Stainless Steel	Offsite	Interbedded Zone	
APC MW-4S	8/28/1989	451652.09	13063990.43	853.25	853.86	6.00	16.00	847.25	837.25	8.83	5.10	848.76	2.00	Not Recorded	Not Recorded	Offsite	Interbedded Zone	
APC MW-6S	8/27/1989	451516.67	13063887.14	853.42	853.43	6.00	16.00	847.42	837.42	4.77	4.69	848.74	2.00	Not Recorded	Not Recorded	Offsite	Interbedded Zone	
APC MW-6D	11/2/1992	451513.20	13063881.06	853.42	853.25	19.20	24.20	834.22	829.22	4.20	8.30	844.95	2.00	Not Recorded	Not Recorded	Offsite	Interbedded Zone	
APC MW-2D	8/28/1989	451764.07	13063815.95	858.52	859.49	11.00	21.00	847.52	837.52	4.00	16.10	843.39	2.00	Not Recorded	Not Recorded	Offsite	Interbedded Zone	
APC MW-5D	8/29/1989	451529.69	13063737.83	858.49	857.92	10.00	20.00	848.49	838.49	7.50	8.90	849.02	2.00	Not Recorded	Not Recorded	Offsite	Interbedded Zone	
APC MW-12S	6/19/1992	451433.34	13064055.54	854.19	852.73	15.00	19.00	839.19	835.19	1.50	5.50	847.23	2.00	Stainless Steel	0.010 Slot Stainless Steel	Offsite	Interbedded Zone	
APC MW-11S	6/17/1992	451366.50	13063873.25	853.77	856.22	13.50	18.50	840.27	835.27	2.00	8.38	847.84	2.00	Stainless Steel	0.010 Slot Stainless Steel	Offsite	Interbedded Zone	
APC MW-8D	6/17/1992	451889.07	13064059.88	851.24	851.10	31.00	36.00	820.24	815.24	NA	9.30	841.80	2.00	Stainless Steel	0.010 Slot Stainless Steel	Offsite	NA	Log ends at 22.5' bgs.
APC MW-12D	6/19/1992	451426.39	13064056.41	854.19	852.57	24.00	29.00	830.19	825.19	5.00	5.46	847.11	2.00	Stainless Steel	0.010 Slot Stainless Steel	Offsite	Interbedded Zone	
APC MW-11D	6/17/1992	451362.16	13063873.25	853.77	855.76	24.00	29.00	829.77	824.77	5.50	8.55	847.21	2.00	Stainless Steel	0.010 Slot Stainless Steel	Offsite	Interbedded Zone	

Notes:
Sch. 40 PVC = Schedule 40 Polyvinyl Chloride
ft = units of feet
bgs = below ground surface
NL = Monitoring Well has been abandoned or was not located during the 8/30/2010 well inventory/gauging event.
NAD 83 = North America Datum 1983 coordinate system
NS = Monitoring Well which has not been surveyed
NM = Monitoring Well which was not measured on a particular gauging/sampling event
TOC = Top of Casing
NA = Not Available
msl = mean sea level
* - measured on 01-28-13

Hydrostratigraphic Unit
Shallow Sand & Fill – unconfined perched water encountered in near surface fill/sand above clay – typically 5-10 feet below grade.

Interbedded Zone - This is the soft clay, silt, sand, occasional till, pretty much a mess zone encountered beneath the surficial sand and above the regional hard clay/sand till – typically ~10 to ~35 feet below grade. These confined perched units are typically discontinuous and appear essentially random.

Glacial Till - Typically a dense, primarily dry, sand/clay/gravel mix. Occasionally there are more permeable zones within this matrix that are saturated.
Deep Overburden - Saturated deep sands encountered above bedrock where bedrock is deeper than ~80 feet below grade.
Bedrock

TABLE 5
RFI Phase 2 Summary Report
RACER Plants 2 and 3
Summary of 2012 Slug Test Data Analysis

Observation Well ID	Estimated Hydraulic Conductivity (cm/sec)			Unconfined Average Hydraulic Conductivity (cm/sec)	Screened Interval (ft bgs)	Screen Conditions	General Saturated Zone Geologic Description
	Unconfined Solutions						
	Bouwer and Rice (1976, Bouwer 1989)	Dagan (1978)	KGS (Hyder 1994)				
CH-14-RO							
Test 1	4.9E-04	NA	NA	5.2E-04	7-12	C1	Fine Sand
Test 2	5.5E-04	NA	NA				
P3-SB-07							
Test 1	2.5E-05	NA	2.5E-05	2.5E-05	11-16	S	Silt
P3-SB-28							
Test 1	4.0E-04	NA	5.3E-04	4.7E-04	8-13	S	Fine to Medium Sand
Total Area Geometric Mean				1.8E-04	Plant 3		
MW-12-09							
Test 1	1.5E-02	NA	NA	1.5E-02	14-19	S	Fine Sand
Test 2	1.4E-02	NA	NA				
MW-12-17							
Test 1	3.6E-03	NA	NA	3.8E-03	9.5-14.5	C1	Fine to Medium Sand with Pebbles
Test 2	3.9E-03	NA	NA				
P2-SB-20							
Test 1	NA	NA	NA	NA	8-13		
Test 2	NA	NA	NA				
Total Area Geometric Mean				7.4E-03	Plant 2		

ft - feet

cm/sec - centimeters per second

NA - not applicable

Screen Conditions

C1 - Well screen fully submerged under static conditions. Induced change in head lowered water table within screened interval. Minor filter pack drainage observed.

S - Well screen fully submerged during static and induced head conditions.

TABLE 6
RFI Phase 2 Summary Report
RACER Plants 2, 3 and 6
Summary of 2002 Permeameter and Sieve Analysis

SAMPLE ID:	DEPTH: (ft bgs.)	SAMPLE DESCRIPTION BASED ON SIEVE ANALYSIS:	PERCENT SILT (%)	PERCENT CLAY (%)	AVG. VERTICAL HYDRAULIC CONDUCTIVITY: (cm/sec)	Stratigraphic Unit
Plant 3 ⁽¹⁾						
MW-02-02 (ST-1)	47.5-48.0	SAND and SILT; trace gravel, trace clay	41.60	7.90	4.80E-05	Deep overburden
MW-02-03 (ST-3)	64.0-64.5	SAND and SILT; trace gravel, little clay	36.20	14.50	2.70E-06	Deep overburden
MW-02-04 (ST-4)	66.5-67.0	SILT; little clay, little sand	64.90	18.80	1.00E-06	Deep overburden
PLANT 6						
MW-02-01 (ST-1)	30.5-31.0	SILT and CLAY; some sand, trace gravel	36.90	33.30	2.60E-08	Glacial Till
MW-02-02 (ST-2)	30.5-31.0	CLAY; some silt, some sand, trace gravel	30.70	42.50	2.60E-08	Glacial Till
MW-02-03 (ST-3)	36.0-36.5	SILT and SAND; some clay, trace gravel	37.80	24.90	6.40E-08	Glacial Till

(1) Slug test performed by URS Consultants, Inc. (June, 1994)

bgs - below ground surface.

NS - no sample taken.

MW - Monitoring Well.

ST - Shelby Tube.

cm/sec - centimeters per second.

ft/sec - feet per second

Glacial Till - Typically a dense, primarily dry, sand/clay/gravel mix. Occasionally there are more permeable zones within this matrix that are saturated.

Deep Overburden - Saturated deep sands encountered above bedrock where bedrock is deeper than ~80 feet below grade.

TABLE 7
RFI Phase 2 Summary Report
RACER Plants 2, 3 and 6
Summary of 2002 Slug Test Analysis

Monitoring Well	Total Depth (bgs)	Screened Interval (bgs)	Horizontal Hydraulic Conductivity		
			Test performed (1)	Sediment Description	Average Hydraulic Conductivity
MW-93-1	77	65 - 75 feet	Slug Test (Slug out)	Sandy Silt/Silty Sand	2.6x10 ⁽⁻⁶⁾ ft/sec
MW-93-2	76	65 - 75 feet	Slug Test (Slug out)	Sandy Silt/Silty Sand	2.84x10 ⁽⁻⁶⁾ ft/sec
MW-93-3	77	66 - 76 feet	Slug Test (Slug out)	Sand, Silty Sand, and Clayey Silt	3.61x10 ⁽⁻⁶⁾ ft/sec

(1) Slug tests performed by URS Consultants, Inc. (June 1994)

bgs - below ground surface.

NS - no sample taken.

MW - Monitoring Well.

ST - Shelby Tube.

cm/sec - centimeters per second.

ft/sec - feet per second

TABLE 8
RFI Phase 2 Summary Report
RACER Plants 2, 3 and 6
Summary of Specific Capacity Testing

Well	Plant	Depth Interval	Aquifer Thickness (b)	Flow Rate (Q)	Steady State Drawdown (s)	Transmissivity (T)	Hydraulic Conductivity (K)	Stratigraphic Unit
		(ft bgs)	(ft)	gpm	(ft)	(gpd/ft)	(cm/sec)	
Overburden								
MW-12-07	2	10-15	2.50	0.13	1.93	134.70	2.54E-03	Interbedded Zone
MW-12-09	2	14-19	5.00	0.49	0.49	2000.37	1.89E-02	Interbedded Zone
MW-12-16	6	28-33	4.00	1.70	0.33	10303.80	1.22E-01	Interbedded Zone
MW-12-17	2	9.5-14.5	1.50	0.60	0.42	2857.13	8.99E-02	Shallow Sand & Fill
Bedrock								
MW-12-01	2	87-110	23.00	0.75	8.31	180.52	3.70E-04	Bedrock
MW-12-02	2	87-110	23.00	3.25	0.48	13543.55	2.78E-02	Bedrock
MW-12-03	6	57-80	23.00	0.75	9.45	158.74	3.26E-04	Bedrock
MW-12-04	west of 3	77-100	23.00	2.75	1.15	4783.17	9.82E-03	Bedrock
MW-12-05	2	75-99	24.00	0.53	10.41	101.52	2.00E-04	Bedrock
MW-12-06	2	80.6-99.5	18.90	0.53	10.49	100.74	2.52E-04	Bedrock

Note

1) Specific capacity analysis after Driscoll (1986) - $T \text{ (gpd/ft)} = Q/s * 2000$

2) Hydraulic conductivity - $K = T/b$

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		Residential Drinking Water Protection Criteria ^(a)	Groundwater Surface Water Interface Protection Criteria ^(b)	Groundwater Contact Protection Criteria ^(c)	Non-Residential Soil Volatilization to Indoor Air Criteria ^(d)	Non-Residential Infinite Source Volatile Soil Inhalation Criteria ^(e) (1)	Non- Residential Direct Contact Criteria ^(f)	Non- Residential Particulate Soil Inhalation Criteria ^(g) (1)	Soil Saturation Levels ^(h)	Statewide Default Background Levels ⁽ⁱ⁾	A-1 ** 0 10/11/12	A-2** 0 10/11/12	A-3** 0 10/11/12	A-6** 0 10/12/12	MW-12-01 1 - 2 03/19/12	MW-12-01 14 - 15 03/19/12	MW-12-01 35 - 36 03/19/12	MW-12-01 50 - 51 03/19/12	MW-12-01 64 - 65 03/19/12
	Units																		
Volatile Organics																			
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	10(M)	ID	1,200(C)	1,200(C)	387	1,200(C)	3.01E+05	1,200	--	<60	<50	NA	<50	<4	<3	<3	<3	<3
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	20(M)	110(X)	500	3,600	2,494	430	7.74E+06	8.90E+05	--	<60	<50	NA	<50	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	ug/kg	14,000	280	2.10E+05(C)	2.10E+05(C)	1.98E+07	2.10E+05(C)	1.89E+10	2.10E+05	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
1,4-Dichlorobenzene	ug/kg	1,700	360	1.40E+05	1.00E+05	1.12E+05	1.90E+06	2.45E+08	NA	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
2-Hexanone	ug/kg	20,000	ID	2.50E+06(C)	1.80E+06	5.59E+05	2.50E+06(C)	5.16E+08	2.50E+06	--	<570	<500	NA	<500	<730	<600	<560	<510	<550
Acetone	ug/kg	15,000	34,000	1.10E+08(C)	1.10E+08(C)	6.88E+07	7.30E+07	7.31E+10	1.10E+08	--	<570	<500	NA	<500	<730	<600	<560	<510	<550
Bromodichloromethane	ug/kg	1,600(W)	ID	2.80E+05	6,400	13,330	4.90E+05	4.73E+07	1.50E+06	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
Bromoform	ug/kg	1,600(W)	ID	8.70E+05(C)	7.70E+05	1.33E+06	8.70E+05(C)	1.55E+09	8.70E+05	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
Bromomethane (Methyl bromide)	ug/kg	200	700	1.40E+06	1,600	5,590	1.00E+06	6.45E+07	2.20E+06	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
Carbon disulfide	ug/kg	16,000	ID	2.80E+05(C)	1.40E+05	6.88E+05	2.80E+05(C,DD)	9.03E+09	2.80E+05	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
Carbon tetrachloride	ug/kg	100	900(X)	92,000	990	5,160	3.90E+05(C)	7.31E+07	3.90E+05	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
Chlorobenzene	ug/kg	2,000	500	2.60E+05(C)	2.20E+05	3.96E+05	2.60E+05(C)	9.03E+08	2.60E+05	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
Chloroform (Trichloromethane)	ug/kg	1,600(W)	7,000	1.50E+06(C)	38,000	64,500	1.50E+06(C)	6.88E+08	1.50E+06	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
Chloromethane (Methyl chloride)	ug/kg	5,200	ID	1.10E+06(C)	10,000	51,600	1.10E+06(C)	1.12E+09	1.10E+06	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
cis-1,3-Dichloropropene	ug/kg	170	180(X)	1.10E+05	5,400	25,800	2.40E+05	2.54E+08	6.20E+05	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
Dichlorodifluoromethane (CFC-12)	ug/kg	95,000	ID	1.00E+06(C)	1.70E+06	2.71E+07	1.00E+06(C)	6.45E+11	1.00E+06	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
Methyl acetate	ug/kg	--	--	--	--	--	--	--	--	--	<570	<500	NA	<500	<730	<600	<560	<510	<550
Methylene chloride	ug/kg	100	30,000(X)	2.30E+06(C)	2.40E+05	3.01E+05	2.30E+06(C)	3.57E+09	2.30E+06	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
Styrene	ug/kg	2,700	2,100(X)	2.70E+05	5.20E+05(C)	1.42E+06	5.20E+05(C)	2.97E+09	5.20E+05	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
trans-1,3-Dichloropropene	ug/kg	170	180(X)	1.10E+05	5,400	25,800	2.40E+05	2.54E+08	6.20E+05	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
Trichlorofluoromethane (CFC-11)	ug/kg	52,000	NA	5.60E+05(C)	5.60E+05(C)	4.73E+07	5.60E+05(C)	7.31E+11	5.60E+05	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
Trifluorotrichloroethane (Freon 113)	ug/kg	5.50E+05(C)	1,700	5.50E+05(C)	5.50E+05(C)	9.03E+07	5.50E+05(C)	9.89E+11	5.50E+05	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
1,4-Dioxane	ug/kg	1,700	56,000(X)	3.40E+07	NLV	NLV	2.40E+06	3.05E+08	9.70E+07	--	NA	NA	NA	NA	<400	<300	<300	<300	<300
1,1,1-Trichloroethane	ug/kg	4,000	1,800	4.60E+05(C)	4.60E+05	1.94E+06	4.60E+05(C)	1.25E+10	4.60E+05	--	100	<50	NA	<50	<70	<60	<60	<50	<60
1,1,2,2-Tetrachloroethane	ug/kg	170	1,600(X)	94,000	23,000	14,620	2.40E+05	2.92E+07	8.70E+05	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
1,1,2-Trichloroethane	ug/kg	100	6,600(X)	4.20E+05	24,000	24,510	8.40E+05	1.08E+08	9.20E+05	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
1,1-Dichloroethane	ug/kg	18,000	15,000	8.90E+05(C)	4.30E+05	1.08E+06	8.90E+05(C)	6.45E+09	8.90E+05	--	250	<50	NA	<50	<70	<60	<60	<50	<60
1,1-Dichloroethene	ug/kg	140	2,600	2.20E+05	330	1,591	5.70E+05(C)	3.35E+07	5.70E+05	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
1,2-Dichloroethane	ug/kg	100	7,200(X)	3.80E+05	11,000	9,030	4.20E+05	6.45E+07	1.20E+06	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
cis-1,2-Dichloroethene	ug/kg	1,400	12,000	6.40E+05(C)	41,000	90,300	6.40E+05(C)	4.30E+08	6.40E+05	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
trans-1,2-Dichloroethene	ug/kg	2,000	30,000(X)	1.40E+06(C)	43,000	1.42E+05	1.40E+06(C)	9.03E+08	1.40E+06	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
Trichloroethene	ug/kg	100	4,000(X)	4.40E+05	1,900	6,020	5.00E+05(C,DD)	2.54E+07	5.00E+05	--	90	<50	NA	<50	<70	<60	<60	<50	<60
Tetrachloroethene	ug/kg	100	1,200(X)	88,000(C)	21,000	90,300	88,000(C)	5.16E+08	88,000	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
Vinyl chloride	ug/kg	40	260(X)	20,000	2,800	12,470	34,000	3.83E+08	4.90E+05	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
Chloroethane	ug/kg	8,600	22,000(X)	9.50E+05(C)	9.50E+05(C)	1.55E+07	9.50E+05(C)	1.25E+11	9.50E+05	--	330	<50	NA	<50	<70	<60	<60	<50	<60
Benzene	ug/kg	100	4,000(X)	2.20E+05	8,400	19,350	4.00E+05(C)	2.02E+08	4.00E+05	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
Ethylbenzene	ug/kg	1,500	360	1.40E+05(C)	1.40E+05(C)	1.03E+06	1.40E+05(C)	5.59E+09	1.40E+05	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
Toluene	ug/kg	16,000	5,400	2.50E+05(C)	2.50E+05(C)	1.42E+06	2.50E+05(C)	5.16E+09	2.50E+05	--	570	<50	NA	<50	<70	<60	<60	<50	<60
o-Xylene	ug/kg	5,600	820	1.50E+05(C)	1.50E+05(C)	2.32E+07	1.50E+05(C)	5.59E+10	1.50E+05	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
m&p-Xylene	ug/kg	5,600	820	1.50E+05(C)	1.50E+05(C)	2.32E+07	1.50E+05(C)	5.59E+10	1.50E+05	--	200	<100	NA	<100	<100	<100	<100	<100	<100
Xylene (total)	ug/kg	5,600	820	1.50E+05(C)	1.50E+05(C)	2.32E+07	1.50E+05(C)	5.59E+10	1.50E+05	--	NA	NA	NA	NA	<170	<160	<160	<150	<160
Methyl tert butyl ether (MTBE)	ug/kg	800	1.40E+05(X)	5.90E+06(C)	5.90E+06(C)	1.29E+07	5.90E+06(C)	3.78E+10	5.90E+06	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	2.60E+05	44,000	2.70E+07(C)	2.70E+07(C)	1.51E+07	2.70E+07(C,DD)	1.25E+10	2.70E+07	--	<570	<500	NA	<500	<730	<600	<560	<510	<550
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	36,000	ID	2.70E+06(C)	2.70E+06(C)	2.28E+07	2.70E+06(C)	2.58E+10	2.70E+06	--	<570	<500	NA	<500	<730	<600	<560	<510	<550
1,2,4-Trichlorobenzene	ug/kg	4,200	5,900(X)	1.10E+06(C)	1.10E+06(C)	1.46E+07	1.10E+06(C,DD)	4.73E+09	1.10E+06	--	110	<50	NA	<50	<70	<60	<60	<50	<60
1,2,4-Trimethylbenzene	ug/kg	2,100	570	1.10E+05(C)	1.10E+05(C)	1.08E+07	1.10E+05(C)	1.55E+10	1.10E+05	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	1,800	1,100	94,000(C)	94,000(C)	8.17E+06	94,000(C)	1.55E+10	94,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	100	4,600(X)	3.20E+05	7,400	12,900	5.50E+05(C)	5.16E+07	5.50E+05	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
1,3-Dichlorobenzene	ug/kg	170	680	51,000	48,000	40,420	1.70E+05(C)	3.78E+07	1.70E+05	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
Cyclohexane	ug/kg	--	--	--	--	--	--	--	--	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
Methyl cyclohexane	ug/kg	--	--	--	--	--	--	--	--	--	<100 X	<50	NA	<50	<70	<60	<60	<50	<60
Dibromochloromethane	ug/kg	1,600(W)	ID	3.60E+05	21,000	34,400	5.00E+05	6.88E+07	6.10E+05	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
Isopropyl benzene	ug/kg	91,000	3,200	3.90E+05(C)	3.90E+05(C)	8.60E+05	3.90E+05(C)	1.12E+09	3.90E+05	--	<60	<50	NA	<50	<70	<60	<60	<50	<60
Naphthalene	ug/kg	35,000	730	2.10E+06	4.70E+05	1.51E+05	5.20E+07	3.78E+07	NA	--	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		Residential Drinking Water Protection Criteria ^(a)	Groundwater Surface Water Interface Protection Criteria ^(b)	Groundwater Contact Protection Criteria ^(c)	Non-Residential Soil Volatilization to Indoor Air Criteria ^(d)	Non-Residential Infinite Source Volatile Soil Inhalation Criteria ^(e) (1)	Non- Residential Direct Contact Criteria ^(f)	Non- Residential Particulate Soil Inhalation Criteria ^(g) (1)	Soil Saturation Levels ^(h)	Statewide Default Background Levels ⁽ⁱ⁾	A-1 ** 0 10/11/12	A-2** 0 10/11/12	A-3** 0 10/11/12	A-6** 0 10/12/12	MW-12-01 1 - 2 03/19/12	MW-12-01 14 - 15 03/19/12	MW-12-01 35 - 36 03/19/12	MW-12-01 50 - 51 03/19/12	MW-12-01 64 - 65 03/19/12
	Units																		
Semivolatile Organics																			
1-Methylnaphthalene	ug/kg	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	830(M)	NA	1.90E+05	NLV	NLV	2.60E+05	2.54E+07	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
2,4,6-Trichlorophenol	ug/kg	2,400	330(M)	2.00E+05	NLV	NLV	3.30E+06	5.59E+08	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
2,4-Dichlorophenol	ug/kg	1,500	330(M)	9.60E+05	NLV	NLV	1.80E+06(C,DD)	9.89E+08	1.80E+06	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
2,4,5-Trichlorophenol	ug/kg	39,000	NA	9.10E+06	NLV	NLV	7.30E+07	4.30E+09	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
2,4-Dimethylphenol	ug/kg	7,400	7,600	1.00E+07	NLV	NLV	3.60E+07	9.03E+08	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
2,4-Dinitrophenol	ug/kg	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
2,4-Dinitrotoluene	ug/kg	430	NA	1.70E+05	NLV	NLV	2.20E+05	8.60E+06	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
2,6-Dinitrotoluene	ug/kg	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
2-Chloronaphthalene	ug/kg	6.20E+05	NA	2.30E+06	ID	ID	1.80E+08	ID	NA	--	NA	NA	NA	NA	<40 J	<40 J	<40 J	<30 J	<40 J
2-Chlorophenol	ug/kg	900	360	1.90E+06	8.00E+05	4.73E+05	4.50E+06	2.28E+08	1.90E+07	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
2-Methylnaphthalene	ug/kg	57,000	4,200	5.50E+06	4.90E+06	7.74E+05	2.60E+07	1.25E+08	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
2-Methylphenol	ug/kg	7,400	1,000(M)	1.60E+07	NLV	NLV	3.60E+07	1.25E+09	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
2-Nitroaniline	ug/kg	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
2-Nitrophenol	ug/kg	400	ID	1.60E+06	NLV	NLV	2.00E+06	ID	NA	--	NA	NA	NA	NA	<40 J	<40 J	<40 J	<30 J	<40 J
3&4-Methylphenol	ug/kg	7,400	1,000(M)	1.60E+07	NLV	NLV	3.60E+07	1.25E+09	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
3,3'-Dichlorobenzidine	ug/kg	2,000(M)	2,000(M)	4,600	NLV	NLV	30,000	3.53E+06	NA	--	NA	NA	NA	NA	<40 J	<40 J	<40 J	<30 J	<40 J
Naphthalene	ug/kg	35,000	730	2.10E+06	4.70E+05	1.51E+05	5.20E+07	3.78E+07	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
3-Nitroaniline	ug/kg	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
4-Bromophenyl phenyl ether	ug/kg	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
4-Chloro-3-methylphenol	ug/kg	5,800	280	3.00E+06	NLV	NLV	1.50E+07	ID	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
4-Chloroaniline	ug/kg	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
4-Chlorophenyl phenyl ether	ug/kg	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA	<40 J	<40 J	<40 J	<30 J	<40 J
4-Nitroaniline	ug/kg	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
4-Nitrophenol	ug/kg	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Anthracene	ug/kg	41,000	ID	41,000	1.00E+09(D)	6.88E+08	7.30E+08	1.25E+10	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Acenaphthene	ug/kg	3.00E+05	8,700	9.70E+05	3.50E+08	4.17E+07	1.30E+08	2.67E+09	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Acenaphthylene	ug/kg	5,900	ID	4.40E+05	3.00E+06	1.16E+06	5.20E+06	4.30E+08	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Acetophenone	ug/kg	30,000	ID	1.10E+06(C)	1.10E+06(C)	2.24E+07	1.10E+06(C)	6.02E+09	1.10E+06	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Atrazine	ug/kg	60	150	1.10E+05	NLV	NLV	3.30E+05(DD)	ID	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Benzaldehyde	ug/kg	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Benzo(a)anthracene	ug/kg	NLL	NLL	NLL	NLV	NLV	80,000	ID	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Benzo(a)pyrene	ug/kg	NLL	NLL	NLL	NLV	NLV	8,000	8.17E+05	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Benzo(b)fluoranthene	ug/kg	NLL	NLL	NLL	ID	ID	80,000	ID	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Benzo(g,h,i)perylene	ug/kg	NLL	NLL	NLL	NLV	NLV	7.00E+06	1.51E+08	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Benzo(k)fluoranthene	ug/kg	NLL	NLL	NLL	NLV	NLV	8.00E+05	ID	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Biphenyl (1,1-Biphenyl)	ug/kg	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
bis(2-Chloroethoxy)methane	ug/kg	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
bis(2-Chloroethyl)ether	ug/kg	100	100(M)	1.10E+05	44,000	5,590	58,000	5.16E+06	2.20E+06	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NLL	NLL	NLL	NLV	NLV	1.00E+07(C)	3.83E+08	1.00E+07	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Butyl benzylphthalate (BBP)	ug/kg	3.10E+05(C)	1.20E+05(X)	3.10E+05(C)	NLV	NLV	3.10E+05(C)	9.03E+09	3.10E+05	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Caprolactam	ug/kg	1.20E+05	NA	1.00E+09(D)	NLV	NLV	3.10E+08(DD)	1.25E+08	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Carbazole	ug/kg	9,400	1,100	8.20E+05	NLV	NLV	2.40E+06	3.35E+07	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Chrysene	ug/kg	NLL	NLL	NLL	ID	ID	8.00E+06	ID	NA	--	NA	NA	NA	NA	<80	<70	<70	<70	<70
Dibenz(a,h)anthracene	ug/kg	NLL	NLL	NLL	NLV	NLV	8,000	ID	NA	--	NA	NA	NA	NA	<80	<70	<70	<70	<70
Dibenzofuran	ug/kg	ID	1,700	ID	3.60E+06	68,800	ID	1.25E+06	NA	--	NA	NA	NA	NA	<40 J	<40 J	<40 J	<30 J	<40 J
Diethyl phthalate	ug/kg	1.10E+05	2,200	7.40E+05(C)	NLV	NLV	7.40E+05(C)	6.45E+08	7.40E+05	--	NA	NA	NA	NA	<80	<70	<70	<70	<70
Dimethyl phthalate	ug/kg	7.90E+05(C)	NA	7.90E+05(C)	NLV	NLV	7.90E+05(C)	6.45E+08	7.90E+05	--	NA	NA	NA	NA	<80	<70	<70	<70	<70
Di-n-butylphthalate (DBP)	ug/kg	7.60E+05(C)	11,000	7.60E+05(C)	NLV	NLV	7.60E+05(C)	6.45E+08	7.60E+05	--	NA	NA	NA	NA	<80	<70	<70	<70	<70
Di-n-octyl phthalate (DnOP)	ug/kg	1.00E+08	ID	1.40E+08(C)	NLV	NLV	2.00E+07	6.02E+09	1.40E+08	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Fluoranthene	ug/kg	7.30E+05	5,500	7.30E+05	1.30E+05	1.00E+09(D)	3.83E+08	1.30E+08	1.76E+09	NA	--	NA	NA	NA	<40	<40	<40	<30	<40
Fluorene	ug/kg	3.90E+05	5,300	8.90E+05	1.00E+09(D)	6.45E+07	8.70E+07	1.76E+09	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Hexachlorobenzene	ug/kg	1,800	350	8,200	2.20E+05	24,080	37,000	3.66E+06	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Hexachlorobutadiene	ug/kg	26,000	91	3.50E+05(C)	3.50E+05(C)	1.98E+05	3.50E+05(C)	7.74E+07	3.50E+05	--	NA	NA	NA	NA	<40 J	<40 J	<40 J	<30 J	<40 J
Hexachlorocyclopentadiene	ug/kg	3.20E+05	ID	7.20E+05(C)	56,000	25,800	7.20E+05(C)	2.54E+06	7.20E+05	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Hexachloroethane	ug/kg	430	1,800(X)	1.10E+05	79,000	2.84E+05	7.30E+05	4.30E+07	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Indeno(1,2,3-cd)pyrene	ug/kg	NLL	NLL	NLL	NLV	NLV	80,000	ID	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Isophorone	ug/kg	15,000	26,000(X)	2.40E+06(C)	NLV	NLV	2.40E+06(C)	3.53E+09	2.40E+06	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Nitrobenzene	ug/kg	330(M)	3,600(X)	2.20E+05	1.70E+05	27,520	3.40E+05	9.03E+06	4.90E+05	--	NA	NA	NA	NA	<40 J	<40 J	<40 J	<30 J	<40 J
N-Nitrosodi-n-propylamine	ug/kg	330(M)	NA	7,200	NLV	NLV	5,400	8.60E+05	1.50E+06	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
N-Nitrosodiphenylamine	ug/kg	5,400	NA	7.00E+05	NLV	NLV	7.80E+06	1.20E+09	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Pentachlorophenol	ug/kg	22	17,000(G,X)	4,300	NLV	NLV	3.20E+05	5.59E+07	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Phenanthrene	ug/kg	56,000	2,100	1.10E+06	5.10E+06	81,700	5.20E+06	1.25E+06	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Phenol	ug/kg	88,000	9,000	1.20E+07(C)	NLV	NLV	1.20E+07(C,DD)	7.74E+09	1.20E+07	--	NA	NA	NA	NA	<40	<40	<40	<30	<40
Pyrene	ug/kg	4.80E+05	ID	4.80E+05	1.00E+09(D)	3.35E+08	8.40E+07	1.25E+09	NA	--	NA	NA	NA	NA	<40	<40	<40	<30	<40

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		Residential Drinking Water Protection Criteria ^(a)	Groundwater Surface Water Interface Protection Criteria ^(b)	Groundwater Contact Protection Criteria ^(c)	Non-Residential Soil Volatilization to Indoor Air Criteria ^(d)	Non-Residential Infinite Source Volatile Soil Inhalation Criteria ^(e) (1)	Non- Residential Direct Contact Criteria ^(f)	Non- Residential Particulate Soil Inhalation Criteria ^(g) (1)	Soil Saturation Levels ^(h)	Statewide Default Background Levels ⁽ⁱ⁾	A-1 ** 0 10/11/12	A-2** 0 10/11/12	A-3** 0 10/11/12	A-6** 0 10/12/12	MW-12-01 1 - 2 03/19/12	MW-12-01 14 - 15 03/19/12	MW-12-01 35 - 36 03/19/12	MW-12-01 50 - 51 03/19/12	MW-12-01 64 - 65 03/19/12
Units																			
Criteria																			
PCBs																			
Aroclor-1016 (PCB-1016)	ug/kg	NLL	NLL	NLL	1.60E+07	3.48E+05	16,000(T)	2.80E+06	NA	--	<500 Y	NA	<7	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NLL	NLL	NLL	1.60E+07	3.48E+05	16,000(T)	2.80E+06	NA	--	<500 Y	NA	<7	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NLL	NLL	NLL	1.60E+07	3.48E+05	16,000(T)	2.80E+06	NA	--	<500 Y	NA	<7	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NLL	NLL	NLL	1.60E+07	3.48E+05	16,000(T)	2.80E+06	NA	--	3,200 Y	NA	27	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NLL	NLL	NLL	1.60E+07	3.48E+05	16,000(T)	2.80E+06	NA	--	<500 Y	NA	<7	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NLL	NLL	NLL	1.60E+07	3.48E+05	16,000(T)	2.80E+06	NA	--	<500 Y	NA	<7	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NLL	NLL	NLL	1.60E+07	3.48E+05	16,000(T)	2.80E+06	NA	--	<500 Y	NA	<7	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NLL	NLL	NLL	1.60E+07	3.48E+05	16,000(T)	2.80E+06	NA	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																			
Antimony	mg/kg	4.3	94(X)	49,000	NLV	NLV	670	2,537	NA	--	NA	NA	NA	NA	<0.27	<0.25	<0.22	<0.21	<0.23
Arsenic	mg/kg	4.6	4.6	2,000	NLV	NLV	37	391.3	NA	5.8	NA	NA	NA	NA	0.89 J	2.22 J	1.73 J	1.48 J	0.34 J
Barium	mg/kg	1,300	783(G)	1.00E+06(D)	NLV	NLV	1.30E+05	64,500	NA	75	NA	NA	NA	NA	107 ⁱ	7.41	12.0	4.30	7.4
Beryllium	mg/kg	51	329(G)	1.00E+06(D)	NLV	NLV	1,600	253.7	NA	--	NA	NA	NA	NA	0.64	<0.13	0.11	<0.10	0.42
Boron	mg/kg	10	140(X)	1.00E+06(D)	NLV	NLV	3.50E+05(DD)	ID	NA	NLV	NA	NA	NA	NA	<5.32	<5.04	<4.32	<4.12	<4.54
Cadmium	mg/kg	6	5.39(G,X)	2.30E+05	NLV	NLV	2,100	946	NA	1.2	NA	NA	NA	NA	0.25	<0.13	<0.11	<0.10	<0.11
Chromium	mg/kg	1.00E+06(D)	4.62E+06(G,X)	1.00E+06(D)	NLV	NLV	1.00E+06(D)	64,500	NA	18	NA	NA	NA	NA	6.66 J	1.58 J	3.25 J	<1.03	1.74 J
Cobalt	mg/kg	0.8	2	48,000	NLV	NLV	9,000	2,537	NA	6.8	NA	NA	NA	NA	7.11 ^{abi}	1.40	2.30	<1.03	2.11
Copper	mg/kg	5,800	116(G)	1.00E+06(D)	NLV	NLV	73,000	25,370	NA	32	NA	NA	NA	NA	6.31	4.62	6.60	2.97	2.7
Lead	mg/kg	700	7,680(G,X)	ID	NLV	NLV	900(DD)	18,920	NA	21	NA	NA	NA	NA	8.62	2.18	2.92	1.93	3.21
Manganese	mg/kg	1	90.1(G,X)	1.80E+05	NLV	NLV	90,000	990	NA	440	NA	NA	NA	NA	592 ^{abi}	181	177	126	165
Mercury	mg/kg	1.7	0.05(M)	47	89	26.66	580	3,784	NA	0.13	NA	NA	NA	NA	0.0637	<0.0060	0.0092	<0.0055	<0.0055
Nickel	mg/kg	100	120(G)	1.00E+06(D)	NLV	NLV	1.50E+05	6,880	NA	20	NA	NA	NA	NA	5.96	2.42	4.43	1.55	3.58
Selenium	mg/kg	4	0.4	78,000	NLV	NLV	9,600	25,370	NA	0.41	NA	NA	NA	NA	<0.27	<0.25	<0.22	<0.21	<0.23
Silver	mg/kg	4.5	0.1(M)	2.00E+05	NLV	NLV	9,000	1,247	NA	1	NA	NA	NA	NA	0.04	0.02	0.03	0.02	0.02
Thallium	mg/kg	2.3	4.2(X)	15,000	NLV	NLV	130	2,537	NA	--	NA	NA	NA	NA	<0.27	<0.25	<0.22	<0.21	<0.23
Vanadium	mg/kg	72	430	1.00E+06(D)	NLV	NLV	5,500(DD)	ID	NA	--	NA	NA	NA	NA	9.31 J	2.87 J	3.24 J	2.71 J	1.54 J
Zinc	mg/kg	2,400	261(G)	1.00E+06(D)	NLV	NLV	6.30E+05	ID	NA	47	NA	NA	NA	NA	21.9 J	14.0 J	11.4 J	3.20 J	28.8 J
Miscellaneous																			
Total solids	%	--	--	--	--	--	--	--	--	--	93	NA	75	NA	81	91	92	98	93

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:			MW-12-02 1 - 2 03/20/12	MW-12-02 46 - 47 03/20/12	MW-12-02 64 - 65 03/20/12	MW-12-05 3 - 4 09/10/12	MW-12-05 45 - 46 09/10/12	MW-12-05 60 - 61 09/10/12	MW-12-06 3 - 4 09/11/12	MW-12-06 47 - 48 09/11/12	MW-12-06 63 - 64 09/11/12	P2-B-2 1 - 2 09/08/11	P2-B-2 19 - 20 09/08/11	P2-B-7 2 - 3 09/08/11	P2-B-7 12 - 13 09/08/11	P2-B-7 19 - 20 09/08/11	P2-GP-1** 7 - 7.5 10/11/12	P2-GP-2** 1 - 2 10/11/12	P2-GP-2** 7 - 7.5 10/11/12	P2-GP-3** 4 - 5 10/11/12	P2-GP-4** 4 - 5 10/11/12	P2-GP-4** 8 - 9 10/11/12	P2-GP-5** 4 - 5 10/11/12	P2-GP-5** 8 - 9 10/11/12		
		Units																								
Volatile Organics																										
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<3	<3	<3	<70	<100	<60	<60	<60	<60	<60	<3	<3	<3	<3	<3	<70	NA	NA	NA	<60	NA	NA	NA		
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<1	<1	<1	<70	<100	<60	<60	<60	<60	<60	<1	<1	<1	<1	<1	<70	NA	NA	NA	<60	NA	NA	NA		
1,2-Dichlorobenzene	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
1,4-Dichlorobenzene	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
2-Hexanone	ug/kg	<570	<630	<540	<670	<1,400	<590	<580	<630	<580	<690	<620	<670	<610	<640	<660	NA	NA	NA	<630	NA	NA	NA			
Acetone	ug/kg	<570	<630	<540	<670	<1,400	<590	<580	<630	<580	<690	<620	<670	<610	<640	<660	NA	NA	NA	<630	NA	NA	NA			
Bromodichloromethane	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
Bromoform	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
Bromomethane (Methyl bromide)	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
Carbon disulfide	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
Carbon tetrachloride	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
Chlorobenzene	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
Chloroform (Trichloromethane)	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
Chloromethane (Methyl chloride)	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
cis-1,3-Dichloropropene	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
Dichlorodifluoromethane (CFC-12)	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
Methyl acetate	ug/kg	<570	<630	<540	<670	<1,400	<590	<580	<630	<580	<690	<620	<670	<610	<640	<660	NA	NA	NA	<630	NA	NA	NA			
Methylene chloride	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
Styrene	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
trans-1,3-Dichloropropene	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
Trichlorofluoromethane (CFC-11)	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
Trifluorotrichloroethane (Freon 113)	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
1,4-Dioxane	ug/kg	<300	<300	<300	NA	NA	NA	NA	NA	NA	NA	<300	<300	<300	<300	<300	NA	NA	NA	NA	NA	NA	NA	NA		
1,1,1-Trichloroethane	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
1,1,2,2-Tetrachloroethane	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
1,1,2-Trichloroethane	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
1,1-Dichloroethane	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	90	NA	NA	NA	90	NA	NA	NA		
1,1-Dichloroethene	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
1,2-Dichloroethane	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
cis-1,2-Dichloroethene	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
trans-1,2-Dichloroethene	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
Trichloroethene	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	80	NA	NA	NA		
Tetrachloroethene	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
Vinyl chloride	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	<70	NA	NA	NA	<60	NA	NA	NA		
Chloroethane	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	<70	<60	<70	<60	<60	780	NA	NA	NA	260	NA	NA	NA		
Benzene	ug/kg	<60	<60	<50	<70	<100	<60	<60	<60	<60	<60	120^a														

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		MW-12-02 1 - 2 03/20/12	MW-12-02 46 - 47 03/20/12	MW-12-02 64 - 65 03/20/12	MW-12-05 3 - 4 09/10/12	MW-12-05 45 - 46 09/10/12	MW-12-05 60 - 61 09/10/12	MW-12-06 3 - 4 09/11/12	MW-12-06 47 - 48 09/11/12	MW-12-06 63 - 64 09/11/12	P2-B-2 1 - 2 09/08/11	P2-B-2 19 - 20 09/08/11	P2-B-7 2 - 3 09/08/11	P2-B-7 12 - 13 09/08/11	P2-B-7 19 - 20 09/08/11	P2-GP-1** 7 - 7.5 10/11/12	P2-GP-2** 1 - 2 10/11/12	P2-GP-2** 7 - 7.5 10/11/12	P2-GP-3** 4 - 5 10/11/12	P2-GP-4** 4 - 5 10/11/12	P2-GP-4** 8 - 9 10/11/12	P2-GP-5** 4 - 5 10/11/12	P2-GP-5** 8 - 9 10/11/12	
Semivolatile Organics																								
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2-Methyl-4,6-dinitrophenol	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
2,4,6-Trichlorophenol	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
2,4-Dichlorophenol	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
2,4,5-Trichlorophenol	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
2,4-Dimethylphenol	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
2,4-Dinitrophenol	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
2,4-Dinitrotoluene	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
2,6-Dinitrotoluene	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
2-Chloronaphthalene	ug/kg	<200 J	<40 J	<30 J	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
2-Chlorophenol	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
2-Methylnaphthalene	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
2-Methylphenol	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
2-Nitroaniline	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
2-Nitrophenol	ug/kg	<200 J	<40 J	<30 J	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
3&4-Methylphenol	ug/kg	<200	<40	<30	<200	<200	<200	<200	<200	<200	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
3,3'-Dichlorobenzidine	ug/kg	<200 J	<40 J	<30 J	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
Naphthalene	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
3-Nitroaniline	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
4-Bromophenyl phenyl ether	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
4-Chloro-3-methylphenol	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
4-Chloroaniline	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
4-Chlorophenyl phenyl ether	ug/kg	<200 J	<40 J	<30 J	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
4-Nitroaniline	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
4-Nitrophenol	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
Anthracene	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
Acenaphthene	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
Acenaphthylene	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
Acetophenone	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
Atrazine	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
Benzaldehyde	ug/kg	<200	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	<100	<40	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo(a)anthracene	ug/kg	500	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	600	<40	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo(a)pyrene	ug/kg	600	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<40	500	<40	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo(b)fluoranthene	ug/kg	1,300 J	<40	<30	<100	<100	<100	<100	<100	<100	<200	<40	<4											

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	MW-12-02	MW-12-02	MW-12-02	MW-12-05	MW-12-05	MW-12-05	MW-12-05	MW-12-06	MW-12-06	MW-12-06	P2-B-2	P2-B-2	P2-B-7	P2-B-7	P2-B-7	P2-GP-1**	P2-GP-2**	P2-GP-2**	P2-GP-3**	P2-GP-4**	P2-GP-4**	P2-GP-5**	P2-GP-5**
		1 - 2	46 - 47	64 - 65	3 - 4	45 - 46	60 - 61	3 - 4	47 - 48	63 - 64	1 - 2	19 - 20	2 - 3	12 - 13	19 - 20	7 - 7.5	1 - 2	7 - 7.5	4 - 5	4 - 5	8 - 9	4 - 5	8 - 9	
		03/20/12	03/20/12	03/20/12	09/10/12	09/10/12	09/10/12	09/11/12	09/11/12	09/11/12	09/08/11	09/08/11	09/08/11	09/08/11	09/08/11	10/11/12	10/11/12	10/11/12	10/11/12	10/11/12	10/11/12	10/11/12	10/11/12	
PCBs																								
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3	<6	<3	<30 Y	<1,100 Y	<60 Y	<300 Y	<500 Y	<30 Y	<6	<6	
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3	<6	<3	<30 Y	<1,100 Y	<60 Y	<300 Y	<500 Y	<30 Y	<6	<6	
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3	<6	<3	<30 Y	<1,100 Y	<60 Y	<300 Y	<500 Y	<30 Y	<6	<6	
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3	<6	<3	140 Y	5,300 Y	550 Y	1,600 Y	2,600 Y	180 Y	<6	<6	
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3	<6	<3	<30 Y	<1,100 Y	<60 Y	<300 Y	<500 Y	<30 Y	<6	<6	
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3	7	<3	<30 Y	<1,100 Y	<60 Y	<300 Y	<500 Y	<30 Y	17	<6	
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3	<6	<3	<30 Y	<1,100 Y	<60 Y	<300 Y	<500 Y	<30 Y	<6	<6	
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	7	ND	NA	NA	NA	NA	NA	NA	NA	NA	
Inorganics																								
Antimony	mg/kg	<0.22	<0.22	<0.22	<0.22	<0.23	<0.22	<0.22	<0.21	<0.21	<0.13	<0.11	<0.11	<0.12	<0.12	NA	NA	NA	NA	NA	NA	NA	NA	
Arsenic	mg/kg	0.89 J	2.73 J	0.81 J	1.40	3.32	0.85	1.14	5.09	1.59	3.33	1.22	0.57	4.82	2.38	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	mg/kg	54.2	6.58	13.0	30.5	10.3	6.00	21.0	46.5	4.92	13.0	27.2	7.58	12.5	55.5	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	mg/kg	0.23	<0.11	0.70	NA	NA	NA	NA	NA	NA	<0.13	0.11	<0.11	<0.12	0.18	NA	NA	NA	NA	NA	NA	NA	NA	
Boron	mg/kg	<4.42	<4.40	<4.48	<4.4	<4.5	<4.4	<4.5	<4.2	<4.4	<5.12	<4.42	<4.58	<4.72	<4.78	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	mg/kg	0.27	<0.11	0.17	<0.11	<0.12	<0.11	<0.11	0.19	<0.11	<0.13	<0.11	<0.11	<0.12	<0.12	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	mg/kg	7.26 J	<1.10	2.56 J	5.03	2.07	1.60	3.75	8.42	0.90	2.11	2.60	1.05	9.62	4.01	NA	NA	NA	NA	NA	NA	NA	NA	
Cobalt	mg/kg	2.37	1.31	7.28 ^{abi}	4.10	1.97	1.46	2.15	6.80	2.07	0.64	2.02	1.14	1.32	3.41	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	mg/kg	31.1	3.72	5.26	5.06	6.78	3.28	7.85	15.0	2.90	5.54	6.05	1.29	6.59	9.77	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	mg/kg	24.2 ⁱ	2.61	4.07	3.59	3.06	4.16	2.85	6.67	2.30	2.19	3.28	1.55	5.37	4.58	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	mg/kg	99.5	153	388	324	255	51.9	240	379	107	51.4	192	107	154	229	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	mg/kg	0.0425	<0.0060	<0.0055	0.0124	0.0094	0.0170	0.0133	0.0137	0.0056	0.0160	0.0079	<0.0056	<0.0055	0.0099	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	mg/kg	38.5 ⁱ	1.88	15.1	7.94	4.46	5.67	5.96	18.2	4.55	2.11	7.26	3.04	5.56	9.95	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	mg/kg	<0.22	<0.22	0.22	<0.11	0.17	0.32	<0.11	0.28	0.14	<0.13	0.19	<0.11	0.13	0.28	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	mg/kg	0.05	0.04	0.04	<0.11	<0.12	<0.11	<0.11	<0.10	<0.11	<0.13	<0.11	<0.11	<0.12	<0.12	NA	NA	NA	NA	NA	NA	NA	NA	
Thallium	mg/kg	<0.22	<0.22	<0.22	NA	NA	NA	NA	NA	NA	<0.13	<0.11	<0.11	<0.12	<0.12	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	mg/kg	7.58 J	2.34 J	3.02 J	7.69	3.74	1.74	6.14	10.8	1.49	2.62	3.55	1.57	2.81	5.60	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	mg/kg	34.1 J	14.7 J	36.6 J	11.7	17.8	4.47	12.6	35.2	11.7	3.88	8.46	2.43	8.80	19.1	NA	NA	NA	NA	NA	NA	NA	NA	
Miscellaneous																								
Total solids	%	92	88	96	89	89	93	92	90	93	84	90	89	90	87	87	93	81	94	94	85	88	91	

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		P2-GP-6** 4 - 5 10/11/12	P2-GP-7** 5 - 6 10/11/12	P2-GP-8** 5 - 6 10/11/12	P2-GP-9** 4 - 5 10/11/12	P2-GP-10** 2 - 3 10/12/12	P2-GP-11** 3 - 4 10/12/12	P2-GP-12** 2 - 3 10/19/12	P2-GP-12** 5 - 6 10/19/12	P2-GP-13** 2 - 3 10/19/12	P2-GP-13** 6 - 7 10/19/12	P2-GP-14** 1 - 2 10/19/12	P2-GP-14** 6 - 7 10/19/12	P2-GP-15** 1 - 2 10/19/12	P2-GP-15** 4 - 5 10/19/12	P2-GP-15** 10 - 11 10/19/12	P2-GP-16** 1 - 2 10/19/12	P2-MW-01 0 - 2 07/20/11	P2-MW-01 22 - 23 07/20/11	P2-MW-01 32 07/20/11	P2-MW-02 0.5 - 2.5 07/22/11	P2-MW-02 31 - 32 07/22/11
	Units																					
Volatile Organics																						
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3	<3	<3 [<3]
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1 [<1]
1,2-Dichlorobenzene	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
1,4-Dichlorobenzene	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
2-Hexanone	ug/kg	NA	<640	<6,400 Y	NA	<640	<620	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<570	<600	<640	<560	<540 [<560]
Acetone	ug/kg	NA	<640	<6,400 Y	NA	<640	<620	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<570	<600	<640	<560	<540 [<560]
Bromodichloromethane	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
Bromoform	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
Bromomethane (Methyl bromide)	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
Carbon disulfide	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
Carbon tetrachloride	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
Chlorobenzene	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
Chloroform (Trichloromethane)	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
Chloromethane (Methyl chloride)	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
cis-1,3-Dichloropropene	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
Methyl acetate	ug/kg	NA	<640	<6,400 Y	NA	<640	<620	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<570	<600	<640	<560	<540 [<560]
Methylene chloride	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
Styrene	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
trans-1,3-Dichloropropene	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
Trichlorofluoromethane (CFC-11)	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
Trifluorotrichloroethane (Freon 113)	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<300	<300	<300	<300	<300 [<300]
1,1,1-Trichloroethane	ug/kg	NA	<60	<600 Y	NA	<60	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
1,1,2,2-Tetrachloroethane	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
1,1,2-Trichloroethane	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
1,1-Dichloroethane	ug/kg	NA	<60	4,100 Y	NA	<60	170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
1,1-Dichloroethene	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
1,2-Dichloroethane	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
cis-1,2-Dichloroethene	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
trans-1,2-Dichloroethene	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
Trichloroethene	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
Tetrachloroethene	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
Vinyl chloride	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
Chloroethane	ug/kg	NA	1,170	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
Benzene	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
Ethylbenzene	ug/kg	NA	<60	12,200 Y^{ab}	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
Toluene	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
o-Xylene	ug/kg	NA	<60	3,500 Y^b	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
m&p-Xylene	ug/kg	NA	<100	62,000 Y^{ab}	NA	<100	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100	<100	<100	<100	<100 [<100]
Xylene (total)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<160	<160	<160	<160	<150 [<160]
Methyl tert butyl ether (MTBE)	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	NA	<640	<6,400 Y	NA	<640	<620	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<570	<600	<640	<560	<540 [<560]
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	NA	<640	<6,400 Y	NA	<640	<620	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<570	<600	<640	<560	<540 [<560]
1,2,4-Trichlorobenzene	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
1,3-Dichlorobenzene	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
Cyclohexane	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
Methyl cyclohexane	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	90	<60	<60	<60	<50 [<60]
Dibromochloromethane	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
Isopropyl benzene	ug/kg	NA	<60	<600 Y	NA	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<50 [<60]
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	P2-GP-6**	P2-GP-7**	P2-GP-8**	P2-GP-9**	P2-GP-10**	P2-GP-11**	P2-GP-12**	P2-GP-12**	P2-GP-13**	P2-GP-13**	P2-GP-14**	P2-GP-14**	P2-GP-15**	P2-GP-15**	P2-GP-15**	P2-GP-16**	P2-MW-01	P2-MW-01	P2-MW-01	P2-MW-02	P2-MW-02
		4 - 5	5 - 6	5 - 6	4 - 5	2 - 3	3 - 4	2 - 3	5 - 6	2 - 3	6 - 7	1 - 2	6 - 7	1 - 2	4 - 5	10 - 11	1 - 2	0 - 2	22 - 23	32	0.5 - 2.5	31 - 32
		10/11/12	10/11/12	10/11/12	10/11/12	10/12/12	10/12/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	07/20/11	07/20/11	07/20/11	07/22/11	07/22/11
Semivolatile Organics																						
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
2,4,6-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
2,4-Dichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
2,4,5-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
2,4-Dimethylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
2,4-Dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
2,4-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
2,6-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
2-Chloronaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
2-Chlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
2-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
2-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
2-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
2-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
3&4-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
3,3'-Dichlorobenzidine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
Napthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
3-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
4-Bromophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
4-Chloro-3-methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
4-Chloroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
4-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
4-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
Anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
Acenaphthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
Acenaphthylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
Acetophenone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
Atrazine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
Benzaldehyde	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
Benzo(a)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
Benzo(a)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
Benzo(b)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<40	<40	<40	<40
Benzo(g,h,i)perylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
Benzo(k)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
Biphenyl (1,1-Biphenyl)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
bis(2-Chloroethoxy)methane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
bis(2-Chloroethyl)ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<40
Butyl benzylphthalate (BBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	P2-GP-6**	P2-GP-7**	P2-GP-8**	P2-GP-9**	P2-GP-10**	P2-GP-11**	P2-GP-12**	P2-GP-12**	P2-GP-13**	P2-GP-13**	P2-GP-14**	P2-GP-14**	P2-GP-15**	P2-GP-15**	P2-GP-15**	P2-GP-16**	P2-MW-01	P2-MW-01	P2-MW-01	P2-MW-02	P2-MW-02
		4 - 5	5 - 6	5 - 6	4 - 5	2 - 3	3 - 4	2 - 3	5 - 6	2 - 3	6 - 7	1 - 2	6 - 7	1 - 2	4 - 5	10 - 11	1 - 2	0 - 2	22 - 23	32	0.5 - 2.5	31 - 32
		10/11/12	10/11/12	10/11/12	10/11/12	10/12/12	10/12/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	07/20/11	07/20/11	07/20/11	07/22/11	07/22/11
PCBs																						
Aroclor-1016 (PCB-1016)	ug/kg	<20 Y	<40 Y	<6	<6 Y	<3	<30 Y	<3	<3	<3	<60 Y	<3	<3	<300 Y	<500 Y	<30 Y	<3	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	<20 Y	<40 Y	<6	<6 Y	<3	<30 Y	<6	<6	<6	<60 Y	<6	<6	<300 Y	<500 Y	<30 Y	<6	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	<20 Y	<40 Y	<6	<6 Y	<3	<30 Y	<6	<6	<6	<60 Y	<6	<6	<300 Y	<500 Y	<30 Y	<6	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	<20 Y	240 Y	<6	37 Y	<3	<30 Y	<6	<6	<6	<60 Y	<6	16	<300 Y	4,700 Y	200 Y	<6	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	<20 Y	<40 Y	51	<6 Y	<3	<30 Y	<6	<6	<6	<60 Y	<6	<6	800 Y	<500 Y	<30 Y	<6	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	160 Y	<40 Y	<6	<6 Y	<3	170 Y	<6	<6	6	200 Y	<6	<6	<300 Y	<500 Y	<30 Y	<6	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	<20 Y	<40 Y	<6	<6 Y	<3	<30 Y	3	<3	<3	<60 Y	<3	<3	<300 Y	<500 Y	<30 Y	<3	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	<0	170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																						
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.11	<0.21	<0.22	<0.23	<0.23 [<0.22]
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.69	1.77	3.77	0.56	1.33 [1.47]
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28.6	19.4	30.2	55.4	9.95 [11.7]
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.13	<0.14	<0.16	0.30	<0.07 [<0.08]
Boron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.19	<1.44	<1.74	<0.50	<1.61 [<1.7]
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.13	<0.14	<0.15	<0.07	<0.04 [<0.05]
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.48	1.79	2.81	4.43	2.40 [1.95]
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.26	2.20	3.56	1.88	1.16 [1.24]
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.09	8.68	9.87	4.69	3.40 [3.77]
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.99	4.45	5.25	4.55	1.86 [2.24]
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	120	253	258	130	131 [139]
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0137	<0.0076	<0.0102	<0.0095	<0.0053 [<0.0071]
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.96	5.47	8.86	3.61	2.60 [2.92]
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.11	<0.21	<0.22	<0.23	<0.23 [<0.22]
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.06	<0.11	0.14	<0.11	<0.11 [<0.11]
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.02	<0.06	<0.13	<0.02	<0.04 [<0.06]
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.78	3.65	4.98	5.54	2.09 [2.25]
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.23	27.0	21.0	8.15	8.63 [11]
Miscellaneous																						
Total solids	%	83	86	88	80	88	87	90	78	88	81	92	91	93	95	88	90	93	89	86	91	95 [93]

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		P2-MW-03 0 - 3 07/19/11	P2-MW-03 21 - 22 07/19/11	P2-MW-03 30 07/19/11	P2-MW-04 1 - 3 07/21/11	P2-MW-04 27 07/21/11	P2-SB-01 2 - 3 09/06/11	P2-SB-01 29 - 30 09/06/11	P2-SB-02 5 - 6 09/06/11	P2-SB-02 29 - 30 09/07/11	P2-SB-03 5.5 - 6.5 09/08/11	P2-SB-03 14.5 - 15.5 09/08/11	P2-SB-04 4 - 5 09/08/11	P2-SB-04 18 - 19 09/08/11	P2-SB-05 5 - 6 09/08/11	P2-SB-05 19 - 20 09/08/11	P2-SB-06 5 - 6 09/01/11	P2-SB-06 23 - 24 09/01/11	P2-SB-07 5 - 6 09/01/11	P2-SB-07 29 - 30 09/01/11	P2-SB-08 5 - 6 09/01/11
	Units																				
Volatile Organics																					
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<3	<3	<3	<3	<3	<3	<4	<3	<3 [<3]	<3	<3	<3	<3	<4	<3	<3	<500 J	<70 J	<3	<3
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1 J
1,2-Dichlorobenzene	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
1,4-Dichlorobenzene	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
2-Hexanone	ug/kg	<590	<630	<640	<510	<700	<690	<740	<630	<660 [<690]	<620	<630	<680	<680	<720	<680	<660	<880	<650	<620	<590
Acetone	ug/kg	<590	<630	<640	<510	<700	<690	<740	<630	<660 [<690]	<620	<630	<680	<680	<720	<680	<660	<880	<650	<620	<590
Bromodichloromethane	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
Bromoform	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
Bromomethane (Methyl bromide)	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
Carbon disulfide	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
Carbon tetrachloride	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
Chlorobenzene	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
Chloroform (Trichloromethane)	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
Chloromethane (Methyl chloride)	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
cis-1,3-Dichloropropene	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
Dichlorodifluoromethane (CFC-12)	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
Methyl acetate	ug/kg	<590	<630	<640	<510	<700	<690	<740	<630	<660 [<690]	<620	<630	<680	<680	<720	<680	<660	<880	<650	<620	<590
Methylene chloride	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
Styrene	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
trans-1,3-Dichloropropene	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
Trichlorofluoromethane (CFC-11)	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
Trifluorotrichloroethane (Freon 113)	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
1,4-Dioxane	ug/kg	<300	<300	<300	<300	<300	<300	<400	<300	<300 [<300]	<300	<300	<300	<300	<400	<300	<300	<400	<300	<300	<300
1,1,1-Trichloroethane	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	80	<60	<60
1,1,2,2-Tetrachloroethane	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
1,1,2-Trichloroethane	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
1,1-Dichloroethane	ug/kg	<60	<60	<60	<50	<70	<70	<70	270	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
1,1-Dichloroethene	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
1,2-Dichloroethane	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
cis-1,2-Dichloroethene	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	210	<70	<70	<70	<70	<90	<60	<60	<60
trans-1,2-Dichloroethene	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
Trichloroethene	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
Tetrachloroethene	ug/kg	<60	<60	<60	<50	<70	<70	<70	660 ^a	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
Vinyl chloride	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
Chloroethane	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
Benzene	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
Ethylbenzene	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
Toluene	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
o-Xylene	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	130
m&p-Xylene	ug/kg	<100	<100	<100	<100	<100	<100	<100	<100	<100 [<100]	<100	<100	<100	<100	<100	<100	<100	<200	<100	<100	400
Xylene (total)	ug/kg	<160	<160	<160	<150	<170	<170	<170	<160	<170 [<170]	<160	<160	<170	<170	<170	<170	<170	<290	<160	<160	530
Methyl tert butyl ether (MTBE)	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<590	<630	<640	<510	<700	<690	<740	<630	<660 [<690]	<620	<630	<680	<680	<720	<680	<660	<880	<650	<620	<590
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<590	<630	<640	<510	<700	<690	<740	<630	<660 [<690]	<620	<630	<680	<680	<720	<680	<660	<880	<650	<620	<590
1,2,4-Trichlorobenzene	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
1,3-Dichlorobenzene	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
Cyclohexane	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
Methyl cyclohexane	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	620
Dibromochloromethane	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	<60
Isopropyl benzene	ug/kg	<60	<60	<60	<50	<70	<70	<70	<60	<70 [<70]	<60	<60	<70	<70	<70	<70	<70	<90	<60	<60	140
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	P2-MW-03	P2-MW-03	P2-MW-03	P2-MW-04	P2-MW-04	P2-SB-01	P2-SB-01	P2-SB-02	P2-SB-02	P2-SB-03	P2-SB-03	P2-SB-04	P2-SB-04	P2-SB-05	P2-SB-05	P2-SB-06	P2-SB-06	P2-SB-07	P2-SB-07	P2-SB-08
		0 - 3	21 - 22	30	1 - 3	27	2 - 3	29 - 30	5 - 6	29 - 30	5.5 - 6.5	14.5 - 15.5	4 - 5	18 - 19	5 - 6	19 - 20	5 - 6	23 - 24	5 - 6	29 - 30	5 - 6
		07/19/11	07/19/11	07/19/11	07/21/11	07/21/11	09/06/11	09/06/11	09/06/11	09/07/11	09/08/11	09/08/11	09/08/11	09/08/11	09/08/11	09/08/11	09/08/11	09/01/11	09/01/11	09/01/11	09/01/11
Semivolatile Organics																					
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<40	<300	<40	<40	<40	<600	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40	<40	<40	<300	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<300	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	
2,4-Dichlorophenol	ug/kg	<40	<40	<40	<300	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<300	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	
2,4-Dimethylphenol	ug/kg	<40	<40	<40	<300	<40	<40 J	<40 J	130 J	<40 J	<40 J	<40	<40	<40	<40	<40	<40 J	<40 J	<40 J	<40 J	
2,4-Dinitrophenol	ug/kg	<40	<40	<40	<300	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<300	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<300	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	
2-Chloronaphthalene	ug/kg	<40	<40	<40	<300	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	
2-Chlorophenol	ug/kg	<40	<40	<40	<300	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	
2-Methylnaphthalene	ug/kg	<40	<40	<40	1,700	<40	<40	<40	570	<40	<40	<40	<40	<40	<40	<40	210	<40	<40	220 Z	
2-Methylphenol	ug/kg	<40	<40	<40	<300	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	
2-Nitroaniline	ug/kg	<40	<40	<40	<300	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	
2-Nitrophenol	ug/kg	<40	<40	<40	<300	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	
3&4-Methylphenol	ug/kg	<40	<40	<40	<300	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<300	<40	<40	<40	<600	<40	<40	<40	<40	<40	<40	<40	<200	<40	<40	<40 J	
Napthalene	ug/kg	<40	<40	<40	2,000 ^b	<40	<40	<40	1,320 ^b	<40	<40	<40	<40	<40	<40	<40	90	<40	<40	<40	
3-Nitroaniline	ug/kg	<40	<40	<40	<300	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<300	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<300	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	
4-Chloroaniline	ug/kg	<40	<40	<40	<300	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<300	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	
4-Nitroaniline	ug/kg	<40	<40	<40	<300	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	
4-Nitrophenol	ug/kg	<40	<40	<40	<300	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	
Anthracene	ug/kg	<40	<40	<40	6,700	<40	<40	<40	750	<40	<40	<40	<40	<40	<40	<40	70	<40	<40	<40	
Acenaphthene	ug/kg	<40	<40	<40	5,100	<40	<40	<40	830	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	
Acenaphthylene	ug/kg	<40	<40	<40	<300	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	
Acetophenone	ug/kg	<40	<40	<40	<300	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	
Atrazine	ug/kg	<40	<40	<40	<300	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	
Benzaldehyde	ug/kg	<40	<40	<40	<300	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	
Benzo(a)anthracene	ug/kg	<140	<40	<40	10,700	<40	<40	<40	540 J	<40	<40	<40	<40	<40	<40	<40	<200	<40	<40	70 J	
Benzo(a)pyrene	ug/kg	<160	<40	<40	9,400 ^f	<40	<40	<40	<600	<40	<40	<40	<40	<40	<40	<40	<200 J	<40	<40	<200	
Benzo(b)fluoranthene	ug/kg	<190	<40	<40	10,200	<40	<40	<40	<600	<40	<40										

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		P2-MW-03	P2-MW-03	P2-MW-03	P2-MW-04	P2-MW-04	P2-SB-01	P2-SB-01	P2-SB-02	P2-SB-02	P2-SB-03	P2-SB-03	P2-SB-04	P2-SB-04	P2-SB-05	P2-SB-05	P2-SB-06	P2-SB-06	P2-SB-07	P2-SB-07	P2-SB-08
		0 - 3	21 - 22	30	1 - 3	27	2 - 3	29 - 30	5 - 6	29 - 30	5.5 - 6.5	14.5 - 15.5	4 - 5	18 - 19	5 - 6	19 - 20	5 - 6	23 - 24	5 - 6	29 - 30	5 - 6
		07/19/11	07/19/11	07/19/11	07/21/11	07/21/11	09/06/11	09/06/11	09/06/11	09/07/11	09/08/11	09/08/11	09/08/11	09/08/11	09/08/11	09/08/11	09/01/11	09/01/11	09/01/11	09/01/11	09/01/11
	Units																				
PCBs																					
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																					
Antimony	mg/kg	<0.23	<0.22	<0.22	<0.20	<0.24	<0.13	<0.14	<0.12	<0.13 [<0.13]	NA	NA	NA	NA	NA	NA	<0.12	<0.11	<0.12	<0.12	<0.12
Arsenic	mg/kg	1.80	2.31	1.24	27.3 ^{abi}	5.08	0.34	3.98	0.87	3.15 [3.1]	NA	NA	NA	NA	NA	NA	1.39	1.85	0.75	3.02	0.46
Barium	mg/kg	33.6	34.6	30.3	22.3	19.4	81.4 ⁱ	42.5	49.3	37.2 [40]	NA	NA	NA	NA	NA	NA	23.4	23.4	40.2	19.6	14.9
Beryllium	mg/kg	<0.19	<0.16	<0.19	<0.15	<0.12	0.42	0.21	0.23	0.20 [0.16]	NA	NA	NA	NA	NA	NA	<0.12	0.12	0.20	<0.12	0.15
Boron	mg/kg	<0.76	<1.46	<2.03	<1.20	<1.85	<5.26	<5.44	<4.92	<5.14 [<5.06]	NA	NA	NA	NA	NA	NA	<4.82	<4.58	<4.78	<4.68	<4.80
Cadmium	mg/kg	<0.18	<0.08	<0.09	0.25	<0.11	0.23	<0.14	0.18	<0.13 [<0.13]	NA	NA	NA	NA	NA	NA	<0.12	<0.11	<0.12	0.20	<0.12
Chromium	mg/kg	4.29	3.14	5.03	3.35	1.88	2.58	4.23	4.02	3.54 [4.05]	NA	NA	NA	NA	NA	NA	2.33	3.09	3.98	3.09	4.05
Cobalt	mg/kg	1.73	2.54	2.67	1.87	2.43	3.51	3.86	3.37	3.40 [3.36]	NA	NA	NA	NA	NA	NA	1.75	2.41	5.17	3.11	3.13
Copper	mg/kg	13.4	9.06	10.0	10.5	6.97	2.00	12.7	7.83	10.0 [10.2]	NA	NA	NA	NA	NA	NA	8.24	6.28	3.64	7.84	9.44
Lead	mg/kg	33.9 ⁱ	4.28	4.63	35.8 ⁱ	4.19	5.85	6.48	4.47	5.72 [5.9]	NA	NA	NA	NA	NA	NA	23.8 ⁱ	3.54	3.66	4.28	4.05
Manganese	mg/kg	155	242	237	151	226	161	303	267	250 [268]	NA	NA	NA	NA	NA	NA	132	193	484 ^{abi}	244	208
Mercury	mg/kg	<0.0250	<0.0097	<0.0091	<0.0175	<0.0061	0.0583	0.0133	0.0124	0.0102 [0.0113]	NA	NA	NA	NA	NA	NA	0.0077	0.0070	0.0123	0.0081	0.0067
Nickel	mg/kg	10.4	5.88	6.37	4.65	5.47	2.48	11.2	6.94	10.1 [10]	NA	NA	NA	NA	NA	NA	5.34	7.26	10.0	9.18	8.73
Selenium	mg/kg	<0.23	<0.22	<0.22	<0.20	<0.24	<0.13	0.32	0.21	0.17 [<0.13]	NA	NA	NA	NA	NA	NA	<0.12	<0.11	0.21	0.26	0.18
Silver	mg/kg	0.12	<0.11	<0.11	<0.10	0.12	<0.13	<0.14	<0.12	<0.13 [<0.13]	NA	NA	NA	NA	NA	NA	<0.12	<0.11	<0.12	<0.12	<0.12
Thallium	mg/kg	<0.02	<0.05	<0.03	<0.02	<0.07	<0.13	<0.14	<0.12	<0.13 [<0.13]	NA	NA	NA	NA	NA	NA	<0.12	<0.11	<0.12	<0.12	<0.12
Vanadium	mg/kg	5.03	4.74	5.17	3.55	3.78	4.57	6.63	6.46	5.87 [6.17]	NA	NA	NA	NA	NA	NA	3.51	4.87	5.39	5.06	6.89
Zinc	mg/kg	30.2	11.8	14.1	24.1	20.2	7.97	14.4	11.0	16.5 [17.1]	NA	NA	NA	NA	NA	NA	9.62	15.6	11.1	25.5	16.3
Miscellaneous																					
Total solids	%	92	88	88	96	82	83	81	88	85 [84]	90	88	85	85	82	85	87	91	87	89	90

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		P2-SB-08 29 - 30 09/01/11	P2-SB-09 5 - 6 08/31/11	P2-SB-09 22 - 23 08/31/11	P2-SB-09 29 - 30 08/31/11	P2-SB-10 4 - 5 09/01/11	P2-SB-10 29 - 30 09/01/11	P2-SB-11 2 - 3 09/07/11	P2-SB-11 19 - 20 09/07/11	P2-SB-12 2 - 3 09/07/11	P2-SB-12 19 - 20 09/07/11	P2-SB-13 2 - 3 08/31/11	P2-SB-13 14 - 15 08/31/11	P2-SB-14 9 - 10 08/31/11	P2-SB-14 14 - 15 08/31/11	P2-SB-15 4 - 5 09/07/11	P2-SB-15 9 - 10 09/07/11	P2-SB-16 2 - 3 09/07/11	P2-SB-16 9 - 10 09/07/11	P2-SB-17 4 - 5 08/26/11	P2-SB-17 9 - 10 08/26/11
	Units																				
Volatile Organics																					
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<60 J	<3	<4	<4	<3 [<3]	<3	NA	NA	NA	NA	<3 [<3]	<3	<4	<3	<3	<3	NA	NA	<3	<3
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<1 J	<1	<1	<2	<1 [<1]	<1	NA	NA	NA	NA	<1 [<1]	<1	<2	<1	<1	<1	NA	NA	<1	<3 J
1,2-Dichlorobenzene	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
1,4-Dichlorobenzene	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
2-Hexanone	ug/kg	<660	<670	<710	<760	<620 [<620]	<620	NA	NA	NA	NA	<630 [<630]	<600	<820	<630	<630	<600	NA	NA	<640	<620
Acetone	ug/kg	<660	<670	<710	<760	<620 [<620]	<620	NA	NA	NA	NA	<630 [<630]	<600	<820	<630	<630	<600	NA	NA	<640	<620
Bromodichloromethane	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
Bromoform	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
Bromomethane (Methyl bromide)	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
Carbon disulfide	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
Carbon tetrachloride	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
Chlorobenzene	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
Chloroform (Trichloromethane)	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
Chloromethane (Methyl chloride)	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
cis-1,3-Dichloropropene	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
Dichlorodifluoromethane (CFC-12)	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
Methyl acetate	ug/kg	<660	<670	<710	<760	<620 [<620]	<620	NA	NA	NA	NA	<630 [<630]	<600	<820	<630	<630	<600	NA	NA	<640	<620
Methylene chloride	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
Styrene	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
trans-1,3-Dichloropropene	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
Trichlorofluoromethane (CFC-11)	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
Trifluorotrichloroethane (Freon 113)	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
1,4-Dioxane	ug/kg	<300	<300	<400	<400	<300 [<300]	<300	NA	NA	NA	NA	<300 [<300]	<300	<400	<300	<300	<300	NA	NA	<300	<300
1,1,1-Trichloroethane	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
1,1,2,2-Tetrachloroethane	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
1,1,2-Trichloroethane	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
1,1-Dichloroethane	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	200	<80	<60	<60	<60	NA	NA	<60	<60
1,1-Dichloroethene	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
1,2-Dichloroethane	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
cis-1,2-Dichloroethene	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
trans-1,2-Dichloroethene	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
Trichloroethene	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
Tetrachloroethene	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
Vinyl chloride	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
Chloroethane	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
Benzene	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
Ethylbenzene	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
Toluene	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
o-Xylene	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
m&p-Xylene	ug/kg	<100	<100	<100	<200	<100 [<100]	<100	NA	NA	NA	NA	<100 [<100]	<100	<200	<100	<100	<100	NA	NA	<100	<100
Xylene (total)	ug/kg	<170	<170	<170	<280	<160 [<160]	<160	NA	NA	NA	NA	<160 [<160]	<160	<280	<160	<160	<160	NA	NA	<160	<160
Methyl tert butyl ether (MTBE)	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<660	<670	<710	<760	<620 [<620]	<620	NA	NA	NA	NA	<630 [<630]	<600	<820	<630	<630	<600	NA	NA	<640	<620
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<660	<670	<710	<760	<620 [<620]	<620	NA	NA	NA	NA	<630 [<630]	<600	<820	<630	<630	<600	NA	NA	<640	<620
1,2,4-Trichlorobenzene	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
1,3-Dichlorobenzene	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
Cyclohexane	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
Methyl cyclohexane	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
Dibromochloromethane	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
Isopropyl benzene	ug/kg	<70	<70	<70	<80	<60 [<60]	<60	NA	NA	NA	NA	<60 [<60]	<60	<80	<60	<60	<60	NA	NA	<60	<60
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	P2-SB-08	P2-SB-09	P2-SB-09	P2-SB-09	P2-SB-10	P2-SB-10	P2-SB-11	P2-SB-11	P2-SB-12	P2-SB-12	P2-SB-12	P2-SB-13	P2-SB-13	P2-SB-14	P2-SB-14	P2-SB-15	P2-SB-15	P2-SB-16	P2-SB-16	P2-SB-17	P2-SB-17
		29 - 30	5 - 6	22 - 23	29 - 30	4 - 5	29 - 30	2 - 3	19 - 20	2 - 3	19 - 20	2 - 3	14 - 15	9 - 10	14 - 15	4 - 5	9 - 10	2 - 3	9 - 10	4 - 5	9 - 10	
		09/01/11	08/31/11	08/31/11	08/31/11	09/01/11	09/01/11	09/07/11	09/07/11	09/07/11	09/07/11	09/07/11	08/31/11	08/31/11	08/31/11	09/07/11	09/07/11	09/07/11	09/07/11	08/26/11	08/26/11	
Semivolatile Organics																						
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<70	<40	<40	<40	<40 J [<40 J]	<40 J	<400 J	<40	<40	<40	NA	NA	<40	<40	
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J [<40 J]	<40 J	<70	<40	<40 J	<40	<40 J [<40 J]	<40 J	<400 J	<40	<40 J	<40 J	NA	NA	<40	<40	
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<70	<40	<40	<40	<40 [<40]	<40	<400 J	<40	<40	<40	NA	NA	<40	<40	
2,4-Dichlorophenol	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J [<40 J]	<40 J	<70	<40	<40 J	<40	<40 J [<40 J]	<40 J	<400 J	<40	<40 J	<40 J	NA	NA	<40	<40	
2,4,5-Trichlorophenol	ug/kg	<40	<40 J	<40 J	<40 J	<40 [<40]	<40	<70	<40	<40	<40	<40 J [<40 J]	<40 J	<400 J	<40	<40	<40	NA	NA	<40	<40	
2,4-Dimethylphenol	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J [<40 J]	<40 J	<70	<40	<40 J	<40	<40 J [<40 J]	<40 J	<400 J	<40	<40 J	<40 J	NA	NA	<40	<40	
2,4-Dinitrophenol	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<70	<40	<40	<40	<40 [<40]	<40	<400 J	<40 J	<40	<40	NA	NA	<40	<40	
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<70	<40	<40	<40	<40 [<40]	<40	<400 J	<40	<40	<40	NA	NA	<40	<40	
2,6-Dinitrotoluene	ug/kg	<40	<40 J	<40 J	<40 J	<40 [<40]	<40	<70	<40	<40	<40	<40 J [<40 J]	<40 J	<400 J	<40	<40	<40	NA	NA	<40	<40	
2-Chloronaphthalene	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J [<40 J]	<40 J	<70	<40	<40	<40	<40 J [<40 J]	<40 J	<400 J	<40	<40 J	<40 J	NA	NA	<40	<40	
2-Chlorophenol	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<70	<40	<40	<40	<40 [<40]	<40	<400 J	<40	<40	<40	NA	NA	<40	<40	
2-Methylnaphthalene	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<70	<40	<40	<40	<40 [<40]	<40	<400 J	<40	<40	<40	NA	NA	<40	<40	
2-Methylphenol	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<70	<40	<40	<40	<40 [<40]	<40	<400 J	<40	<40	<40	NA	NA	<40	<40	
2-Nitroaniline	ug/kg	<40	<40 J	<40 J	<40 J	<40 [<40]	<40	<70	<40	<40	<40	<40 J [<40 J]	<40 J	<400 J	<40	<40	<40	NA	NA	<40	<40	
2-Nitrophenol	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J [<40 J]	<40 J	<70	<40	<40 J	<40	<40 J [<40 J]	<40 J	<400 J	<40	<40 J	<40 J	NA	NA	<40	<40	
3&4-Methylphenol	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<70	<40	<40	<40	<40 [<40]	<40	<400 J	<40	<40	<40	NA	NA	<40	<40	
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<70	<40	<40	<40	<40 [<40]	<40	<400 J	<40	<40	<40	NA	NA	<40	<40	
Naphthalene	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<70	<40	<40	<40	<40 [<40]	<40	<400 J	<40	<40	<40	NA	NA	<40	<40	
3-Nitroaniline	ug/kg	<40	<40 J	<40 J	<40 J	<40 [<40]	<40	<70	<40	<40	<40	<40 J [<40 J]	<40 J	<400 J	<40	<40	<40	NA	NA	<40	<40	
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<70	<40	<40	<40	<40 [<40]	<40	<400 J	<40	<40	<40	NA	NA	<40	<40	
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<70	<40	<40	<40	<40 [<40]	<40	<400 J	<40	<40	<40	NA	NA	<40	<40	
4-Chloroaniline	ug/kg	<40	<40 J	<40 J	<40 J	<40 [<40]	<40	<70	<40	<40	<40	<40 J [<40 J]	<40 J	<400 J	<40 J	<40	<40	NA	NA	<40	<40	
4-Chlorophenyl phenyl ether	ug/kg	<40	<40 J	<40 J	<40 J	<40 [<40]	<40	<70	<40	<40	<40	<40 J [<40 J]	<40 J	<400 J	<40	<40	<40	NA	NA	<40	<40	
4-Nitroaniline	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<70	<40	<40	<40	<40 [<40]	<40	<400 J	<40	<40	<40	NA	NA	<40	<40	
4-Nitrophenol	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<70	<40	<40	<40	<40 [<40]	<40	<400 J	<40	<40	<40	NA	NA	<40	<40	
Anthracene	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	1,900	<40	<40	<40	<40 [<40]	<40	<400 J	<40	<40	<40	NA	NA	<40	<40	
Acenaphthene	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<70	<40	<40	<40	<40 [<40]	<40	<400 J	<40	<40	<40	NA	NA	<40	<40	
Acenaphthylene	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	120	<40	<40	<40	<40 [<40]	<40	<400 J	<40	<40	<40	NA	NA	<40	<40	
Acetophenone	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J [<40 J]	<40 J	<70	<40	<40 J	<40	<40 J [<40 J]	<40 J	<400 J	<40	<40 J	<40 J	NA	NA	<40	<40	
Atrazine	ug/kg	<40	<40 J	<40 J	<40 J	<40 [<40]	<40	<70	<40	<40	<40	<40 J [<40 J]	<40 J	<400 J	<40	<40	<40	NA	NA	<40	<40	
Benzaldehyde	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<70	<40	<40	<40	<40 [<40]	<40	<400 J	<40	<40	<40	NA	NA	<40	<40	
Benzo(a)anthracene	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	1,250	<40	110	<40	<40 [<40]	<40	<400 J	<40	<40	<40	NA	NA	<40	<40	
Benzo(a)pyrene	ug/kg	<40	<40	<40	<40	<40 [<40]																

TABLE 12 RFI Phase 2 Summary Report RACER Plant 2 Summary of Soil Sample Analytical Results																					
Location ID: Sample Depth(ft): Date Collected:		P2-SB-08 29 - 30 09/01/11	P2-SB-09 5 - 6 08/31/11	P2-SB-09 22 - 23 08/31/11	P2-SB-09 29 - 30 08/31/11	P2-SB-10 4 - 5 09/01/11	P2-SB-10 29 - 30 09/01/11	P2-SB-11 2 - 3 09/07/11	P2-SB-11 19 - 20 09/07/11	P2-SB-12 2 - 3 09/07/11	P2-SB-12 19 - 20 09/07/11	P2-SB-13 2 - 3 08/31/11	P2-SB-13 14 - 15 08/31/11	P2-SB-14 9 - 10 08/31/11	P2-SB-14 14 - 15 08/31/11	P2-SB-15 4 - 5 09/07/11	P2-SB-15 9 - 10 09/07/11	P2-SB-16 2 - 3 09/07/11	P2-SB-16 9 - 10 09/07/11	P2-SB-17 4 - 5 08/26/11	P2-SB-17 9 - 10 08/26/11
	Units																				
PCBs																					
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	<3	<3	<3	<3	<3 [<u><3</u>]	<3	<3	<3	NA	NA	<3 [<u><3</u>]	<3	<3	<3
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	<3	<3	<3	<3	<3 [<u><3</u>]	<3	<3	<3	NA	NA	<3 [<u><3</u>]	<3	<3	<3
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	<3	<3	<3	<3	<3 [<u><3</u>]	<3	<3	<3	NA	NA	<3 [<u><3</u>]	<3	<3	<3
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	<3	<3	<3	<3	<3 [<u>11</u>]	<3	<3	<3	NA	NA	<3 [<u><3</u>]	<3	<3	<3
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	<3	<3	<3	<3	<3 [<u><3</u>]	<3	<3	<3	NA	NA	<3 [<u><3</u>]	<3	<3	<3
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	<3	<3	<3	<3	<3 [<u><3</u>]	<3	<3	<3	NA	NA	<3 [<u><3</u>]	<3	<3	<3
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	8	<3	<3	<3	<3 [<u><3</u>]	<3	<3	<3	NA	NA	<3 [<u><3</u>]	<3	<3	<3
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	8	ND	ND	ND	<3 [<u>11</u>]	<3	<3	<3	NA	NA	ND [<u>ND</u>]	ND	<3	<3
Inorganics																					
Antimony	mg/kg	<0.12	<0.11	<0.12	<0.11	<0.12 [<u><0.12</u>]	<0.12	0.21	<0.12	<0.12	<0.12	<0.11 [<u><0.12</u>]	<0.11	<0.12	<0.12	<0.12	<0.12	NA	NA	<0.12	<0.12
Arsenic	mg/kg	3.50	0.85	1.26	1.53	0.83 [<u>0.92</u>]	2.79	1.39	2.74	0.83	3.13	1.35 [<u>1.55</u>]	3.54	0.96	1.52	0.74	1.37	NA	NA	1.31	0.71
Barium	mg/kg	34.0	16.3	31.4	36.4	25.4 [<u>40.3</u>]	20.2	44.2	28.8	29.4	32.8	37.5 [<u>35.7</u>]	12.6	35.9	16.2	45.5	25.5	NA	NA	16.8	29.5
Beryllium	mg/kg	0.22	0.23	0.29	0.21	0.15 [<u>0.2</u>]	0.14	0.30	<0.12	0.21	0.15	0.31 [<u>0.27</u>]	0.16	0.29	0.19	0.19	<0.12	NA	NA	0.15	0.15
Boron	mg/kg	<4.84	<4.48	<4.56	<4.46	<4.68 [<u><4.72</u>]	<4.66	<4.62	<4.78	<4.80	<4.74	<4.36 [<u><4.7</u>]	<4.56	<4.68	<4.74	<4.94	<4.64	NA	NA	<4.94	<4.72
Cadmium	mg/kg	0.15	<0.11	<0.12	<0.11	<0.12 [<u><0.12</u>]	<0.12	0.16	<0.12	<0.12	<0.12	<0.11 [<u><0.12</u>]	<0.11	0.17	0.13	0.13	<0.12	NA	NA	<0.12	<0.12
Chromium	mg/kg	5.31	3.07	7.15	7.19	3.63 [<u>4.82</u>]	3.46	8.94	2.47	4.18	15.8	9.07 [<u>9.57</u>]	5.44	10.6	6.12	3.96	2.43	NA	NA	2.83	2.03
Cobalt	mg/kg	4.69	1.87	3.97	4.46	2.54 [<u>4.55</u>]	2.81	2.70	2.45	2.05	4.52	4.78 [<u>5.81</u>]	3.39	5.33	3.51	4.34	1.78	NA	NA	3.20	2.24
Copper	mg/kg	12.9	3.19	13.4	12.2	9.63 [<u>10.2</u>]	7.09	11.9	6.66	37.7 ⁱ	14.3	7.65 [<u>6.94</u>]	8.16	15.2	11.0	3.93	3.63	NA	NA	9.48	10.6
Lead	mg/kg	6.53	2.24	5.40	5.43	4.28 [<u>4.57</u>]	3.98	122 ⁱ	3.73	20.3	4.36	4.65 [<u>4.49</u>]	3.37	6.21	5.06	3.20	2.66	NA	NA	4.67	4.53
Manganese	mg/kg	313	179	315	306	239 [<u>262</u>]	214	482 ^{abi}	196	161	212	287 [<u>330</u>]	149	271	247	457 ^{abi}	166	NA	NA	261	235
Mercury	mg/kg	0.0129	<0.0058	0.0109	0.0101	0.0102 [<u>0.01</u>]	0.0076	0.0171	0.0061	0.0139	0.0142	0.0129 [<u>0.0142</u>]	0.0083	0.0120	0.0104	0.0098	0.0056	NA	NA	0.0089	0.0083
Nickel	mg/kg	13.1	3.56	11.2	12.3	7.70 [<u>10</u>]	8.32	9.10	7.47	4.62	10.7	12.3 [<u>12.7</u>]	9.14	14.1	10.1	9.61	6.12	NA	NA	10.2	6.89
Selenium	mg/kg	0.25	<0.11	0.25	0.14	<0.12 [<u><0.12</u>]	0.18	<0.12	0.17	<0.12	0.24	<0.11 [<u><0.12</u>]	0.45 ^{bi}	0.61 ^{bi}	0.17	0.31	0.25	NA	NA	0.26	<0.12
Silver	mg/kg	<0.12	<0.11	<0.12	<0.11	<0.12 [<u><0.12</u>]	<0.12	<0.12	<0.12	<0.12	<0.12	<0.11 [<u><0.12</u>]	<0.11	<0.12	<0.12	<0.12	<0.12	NA	NA	<0.12	<0.12
Thallium	mg/kg	0.12	<0.11	<0.12	<0.11	<0.12 [<u><0.12</u>]	<0.12	<0.12	<0.12	<0.12	<0.12	<0.11 [<u><0.12</u>]	<0.11	<0.12	<0.12	<0.12	<0.12	NA	NA	<0.12	<0.12
Vanadium	mg/kg	7.50	4.65	10.5	10.4	4.54 [<u>6.33</u>]	5.27	4.78	4.18	4.47	4.48	11.1 [<u>11.9</u>]	8.33	14.4	9.79	5.60	3.69	NA	NA	4.83	3.90
Zinc	mg/kg	21.0	6.44	20.7	18.3	11.3 [<u>15.1</u>]	14.2	18.5	12.8	14.1	14.3	17.9 [<u>17.1</u>]	17.0	29.5	22.0	10.1	7.85	NA	NA	12.4	13.2
Miscellaneous																					
Total solids	%	86	86	86	88	89 [<u>89</u>]	90	89	90	89	91	89 [<u>89</u>]	91	84	88	88	90	88 [<u>86</u>]	90	89	90

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		P2-SB-18 4 - 5 08/29/11	P2-SB-18 19 - 20 08/29/11	P2-SB-21 4 - 5 08/29/11	P2-SB-21 9 - 10 08/29/11	P2-SB-21 19 - 20 08/29/11	P2-SB-22 4 - 5 08/30/11	P2-SB-22 9 - 10 08/30/11	P2-SB-23 3 - 4 08/29/11	P2-SB-23 19 - 20 08/29/11	P2-SB-24 5.5 - 6.5 08/31/11	P2-SB-24 19 - 20 08/31/11	P2-SB-25 4 - 5 09/07/11	P2-SB-25 9 - 10 09/07/11	P2-SB-26 5 - 6 08/29/11	P2-SB-26 19 - 20 08/29/11	P2-SB-27 3 - 4 09/02/11	P2-SB-27 10 - 11 09/02/11	P2-SB-28 2 - 3 09/02/11	P2-SB-28 9 - 10 09/02/11	P2-SB-29 1 - 2 08/31/11
	Units																				
Volatile Organics																					
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<3 J	<3 J	<7 J	<4 J	<3 J	<3 J	<3 J	<3 J	<3 J	<3 J	<3	<3	<3	<3 J [<3 J]	<3 J	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<1	<3 J	<3	<1	<2 J	<1	<1	<1	<4 J	<1 J	<1	<1	<1	<1 [<1]	<3 J	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
2-Hexanone	ug/kg	<610	<600	<1,300	<700	<630	<670	<690	<630	<610	<580 J	<620	<620	<600	<620 [<650]	<630	NA	NA	NA	NA	NA
Acetone	ug/kg	<610	<600	<1,300	<700	<630	<670	<690	<630	<610	<580 J	<620	<620	<600	<620 [<650]	<630	NA	NA	NA	NA	NA
Bromodichloromethane	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
Bromoform	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
Bromomethane (Methyl bromide)	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
Carbon tetrachloride	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
Chlorobenzene	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
Chloroform (Trichloromethane)	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
Chloromethane (Methyl chloride)	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
Dichlorodifluoromethane (CFC-12)	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	<610	<600	<1,300	<700	<630	<670	<690	<630	<610	<580 J	<620	<620	<600	<620 [<650]	<630	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
Styrene	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
Trichlorofluoromethane (CFC-11)	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
1,4-Dioxane	ug/kg	<300	<300	<700	<400	<300	<300	<300	<300	<300	<300 J	400	<300	400	<300 [<300]	<300	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	11,900 D ^{ab}	<60	560	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
1,1-Dichloroethane	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	6,780 J	<60	620	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
1,1-Dichloroethene	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	250 J ^a	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
1,2-Dichloroethane	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
Trichloroethene	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	190 J ^a	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
Tetrachloroethene	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	430 J ^a	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
Vinyl chloride	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
Chloroethane	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	890 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
Benzene	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
Ethylbenzene	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
Toluene	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	600 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
o-Xylene	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
m&p-Xylene	ug/kg	<100	<100	<300	<100	<100	<100	<100	<100	<100	<100 J	<100	<100	<100	<100 [<100]	<100	NA	NA	NA	NA	NA
Xylene (total)	ug/kg	<160	<160	<400	<170	<160	<170	<170	<160	<160	<160	<160	<160	<160	<160 [<170]	<160	NA	NA	NA	NA	NA
Methyl tert butyl ether (MTBE)	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<610	<600	<1,300	<700	<630	<670	<690	<630	<610	<580 J	<620	<620	<600	<620 [<650]	<630	NA	NA	NA	NA	NA
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<610	<600	<1,300	<700	<630	<670	<690	<630	<610	<580 J	<620	<620	<600	<620 [<650]	<630	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	70 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
Cyclohexane	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
Methyl cyclohexane	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
Dibromochloromethane	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
Isopropyl benzene	ug/kg	<60	<60	<100	<70	<60	<70	<70	<60	<60	<60 J	<60	<60	<60	<60 [<70]	<60	NA	NA	NA	NA	NA
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	P2-SB-18	P2-SB-18	P2-SB-21	P2-SB-21	P2-SB-21	P2-SB-22	P2-SB-22	P2-SB-23	P2-SB-23	P2-SB-24	P2-SB-24	P2-SB-25	P2-SB-25	P2-SB-26	P2-SB-26	P2-SB-27	P2-SB-27	P2-SB-28	P2-SB-28	P2-SB-29
		4 - 5	19 - 20	4 - 5	9 - 10	19 - 20	4 - 5	9 - 10	3 - 4	19 - 20	5.5 - 6.5	19 - 20	4 - 5	9 - 10	5 - 6	19 - 20	3 - 4	10 - 11	2 - 3	9 - 10	1 - 2
		08/29/11	08/29/11	08/29/11	08/29/11	08/29/11	08/30/11	08/30/11	08/29/11	08/29/11	08/31/11	08/31/11	09/07/11	09/07/11	08/29/11	08/29/11	09/02/11	09/02/11	09/02/11	09/02/11	08/31/11
Semivolatile Organics																					
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40 J	<40	<40	<40	<40	NA	NA	NA	<100 J	
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40 J	<40 J	<40 J	<40	<40	NA	NA	NA	<100 J	
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40	60	<40	<40	<40	NA	NA	NA	<100	
2,4-Dichlorophenol	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40 J	<40 J	<40 J	<40	<40	NA	NA	NA	<100 J	
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40 J	<40	<40	<40	<40	NA	NA	NA	<100	
2,4-Dimethylphenol	ug/kg	<40	<40	<40	<40	<40	NA	NA	8,400 D ^{ab}	<40	<2,000 J	<40 J	<40 J	<40 J	<40	<40	NA	NA	NA	<100 J	
2,4-Dinitrophenol	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40	<40	<40	<40	<40	NA	NA	NA	<100 J	
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40	<40	<40	<40	<40	NA	NA	NA	<100	
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40 J	<40	<40	<40	<40	NA	NA	NA	<100	
2-Chloronaphthalene	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40 J	<40 J	<40	<40	<40	NA	NA	NA	<100	
2-Chlorophenol	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40	<40	<40	<40	<40	NA	NA	NA	<100	
2-Methylnaphthalene	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40	90	<40	<40	<40	NA	NA	NA	<100	
2-Methylphenol	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40	<40	<40	<40	<40	NA	NA	NA	<100	
2-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	NA	NA	40	<40	<2,000 J	<40 J	<40	<40	<40	<40	NA	NA	NA	<100 J	
2-Nitrophenol	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40 J	<40 J	<40 J	<40	<40	NA	NA	NA	<100 J	
3&4-Methylphenol	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40	<40	<40	<40	<40	NA	NA	NA	<100	
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40	<40 J	<40	<40	<40	NA	NA	NA	<100	
Napthalene	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40	70	<40	<40	<40	NA	NA	NA	<100	
3-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40 J	<40	<40	<40	<40	NA	NA	NA	<100	
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40	<40	<40	<40	<40	NA	NA	NA	<100	
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<40	<40	NA	NA	50	<40	<2,000 J	<40	<40	<40	<40	<40	NA	NA	NA	<100	
4-Chloroaniline	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40 J	<40	<40	<40	<40	NA	NA	NA	<100 J	
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40 J	<40	<40	<40	<40	NA	NA	NA	<100	
4-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40	<40	<40	<40	<40	NA	NA	NA	<100	
4-Nitrophenol	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40	<40	<40	<40	<40	NA	NA	NA	<100	
Anthracene	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	2,000 J	<40	270	<40	<40	<40	NA	NA	NA	<100	
Acenaphthene	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40	100 Z	<40	<40	<40	NA	NA	NA	<100	
Acenaphthylene	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40	<40	<40	<40	<40	NA	NA	NA	<100	
Acetophenone	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40 J	<40 J	<40 J	<40	<40	NA	NA	NA	<100 J	
Atrazine	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40 J	<40	<40	<40	<40	NA	NA	NA	<100 J	
Benzaldehyde	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40	<40	<40	<40	<40	NA	NA	NA	<100	
Benzo(a)anthracene	ug/kg	<40	<40	<40	<40	<40	NA	NA	80	<40	<2,000 J	<40	150 J	<40	<40	<40	NA	NA	NA	<100	
Benzo(a)pyrene	ug/kg	<40	<40	<40	<40	<40	NA	NA	80	<40	<2,000 J	<40	<300	<40	<40	<40	NA	NA	NA	<100	
Benzo(b)fluoranthene	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40	<300	<40	<40	<40	NA	NA	NA	<100	
Benzo(g,h,i)perylene	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40	<300	<40	<40	<40	NA	NA	NA	<100	
Benzo(k)fluoranthene	ug/kg	<40	<40	<40	<40	<40	NA	NA	<40	<40	<2,000 J	<40	<300	<40	<40						

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	P2-SB-18	P2-SB-18	P2-SB-21	P2-SB-21	P2-SB-21	P2-SB-22	P2-SB-22	P2-SB-23	P2-SB-23	P2-SB-24	P2-SB-24	P2-SB-25	P2-SB-25	P2-SB-26	P2-SB-26	P2-SB-27	P2-SB-27	P2-SB-28	P2-SB-28	P2-SB-29
		4 - 5	19 - 20	4 - 5	9 - 10	19 - 20	4 - 5	9 - 10	3 - 4	19 - 20	5.5 - 6.5	19 - 20	4 - 5	9 - 10	5 - 6	19 - 20	3 - 4	10 - 11	2 - 3	9 - 10	1 - 2
		08/29/11	08/29/11	08/29/11	08/29/11	08/29/11	08/30/11	08/30/11	08/29/11	08/29/11	08/31/11	08/31/11	09/07/11	09/07/11	08/29/11	08/29/11	09/02/11	09/02/11	09/02/11	09/02/11	08/31/11
		PCBs																			
Aroclor-1016 (PCB-1016)	ug/kg	<3	<3	<3	<3	<3	NA	NA	<20 J	<3	<1,500 J	<3	NA	NA	<3 [<3]	<3	NA	NA	NA	NA	
Aroclor-1221 (PCB-1221)	ug/kg	<3	<3	<3	<3	<3	NA	NA	<20 J	<3	<1,500 J	<3	NA	NA	<3 [<3]	<3	NA	NA	NA	NA	
Aroclor-1232 (PCB-1232)	ug/kg	<3	<3	<3	<3	<3	NA	NA	<20 J	<3	<1,500 J	<3	NA	NA	<3 [<3]	<3	NA	NA	NA	NA	
Aroclor-1242 (PCB-1242)	ug/kg	<3	<3	<3	<3	<3	NA	NA	<20 J	<3	10,000 J	<3	NA	NA	<3 [<3]	<3	NA	NA	NA	NA	
Aroclor-1248 (PCB-1248)	ug/kg	<3	<3	<3	<3	<3	NA	NA	<20 J	<3	<1,500 J	<3	NA	NA	<3 [<3]	<3	NA	NA	NA	NA	
Aroclor-1254 (PCB-1254)	ug/kg	<3	<3	<3	<3	<3	NA	NA	130 J	<3	<1,500 J	<3	NA	NA	<3 [<3]	<3	NA	NA	NA	NA	
Aroclor-1260 (PCB-1260)	ug/kg	<3	<3	<3	<3	<3	NA	NA	<20 J	<3	<1,500 J	<3	NA	NA	<3 [<3]	<3	NA	NA	NA	NA	
Total PCBs	ug/kg	<3	<3	<3	<3	<3	NA	NA	130 J	<3	10,000 J	<3	NA	NA	<3 [<3]	<3	NA	NA	NA	NA	
Inorganics																					
Antimony	mg/kg	<0.12	<0.12	<0.13	<0.13	<0.12	NA	NA	<0.12	<0.12	NA	NA	<0.12	<0.11	<0.12 [<0.11]	<0.12	<0.11 [<0.11]	<0.12	<0.12	<0.11	<0.12
Arsenic	mg/kg	1.83	2.14	0.61	0.16	1.70	NA	NA	0.31	2.23	NA	NA	0.74	0.44	1.57 [1.84]	2.43	0.87 [1.75]	1.69	0.89	0.59	1.26
Barium	mg/kg	47.0	30.4	71.9	52.6	39.1	NA	NA	22.3	37.4	NA	NA	36.7	21.1	29.6 [30]	38.1	22.9 [18.3]	18.4	12.8	11.3	52.0
Beryllium	mg/kg	0.25	0.18	0.44	0.42	0.20	NA	NA	0.16	0.20	NA	NA	0.13	0.13	0.20 [0.19]	0.19	0.13 [0.13]	0.13	<0.12	<0.11	0.28
Boron	mg/kg	<4.76	<4.76	<5.14	<5.24	<4.68	NA	NA	<5.0	<4.60	NA	NA	<4.62	<4.54	<4.60 [<4.42]	<4.96	<4.52 [<4.46]	<4.62	<4.62	<4.56	<4.82
Cadmium	mg/kg	<0.12	<0.12	0.35	<0.13	<0.12	NA	NA	<0.12	<0.12	NA	NA	<0.12	<0.11	<0.12 [<0.11]	<0.12	<0.11 [<0.11]	<0.12	<0.12	<0.11	0.19
Chromium	mg/kg	5.32	3.99	6.07	7.09	4.89	NA	NA	6.92	5.48	NA	NA	3.64	2.55	4.77 [4.72]	5.36	3.43 [3.62]	4.56	2.91	1.84	7.70
Cobalt	mg/kg	4.75	2.81	3.09	5.79	3.88	NA	NA	2.03	3.97	NA	NA	5.02	2.01	3.53 [3.48]	4.03	2.86 [2.73]	2.92	1.79	1.73	4.36
Copper	mg/kg	9.93	7.19	7.63	6.15	10.1	NA	NA	3.61	9.79	NA	NA	9.13	6.97	9.59 [9.03]	8.40	3.98 [6.88]	6.88	3.82	2.93	11.4
Lead	mg/kg	5.25	4.14	10.6	8.74	4.69	NA	NA	3.97	4.66	NA	NA	2.33	3.32	4.81 [4.73]	4.60	3.31 [3.51]	3.55	2.24	2.60	19.8
Manganese	mg/kg	319	200	111	94.5	273	NA	NA	34.0	237	NA	NA	240	281	269 [274]	236	202 [203]	204	168	150	308
Mercury	mg/kg	0.0090	0.0078	0.0380	0.0206	0.0096	NA	NA	0.0163	0.0104	NA	NA	<0.0055	0.0074	0.0079 [0.008]	0.0077	0.0114 [0.0078]	0.0083	<0.0055	0.0093	0.0441
Nickel	mg/kg	10.7	8.44	6.12	8.63	11.1	NA	NA	4.35	11.1	NA	NA	6.79	6.77	10.3 [9.73]	11.4	7.95 [8.64]	9.43	6.85	6.80	11.9
Selenium	mg/kg	<0.12	0.20	0.46 ^{bi}	<0.13	0.24	NA	NA	<0.12	0.14	NA	NA	<0.12	0.21	0.27 [0.21]	<0.12	<0.11 [0.14]	0.12	<0.12	0.11	<0.12
Silver	mg/kg	<0.12	<0.12	<0.13	<0.13	<0.12	NA	NA	<0.12	<0.12	NA	NA	<0.12	<0.11	<0.12 [<0.11]	<0.12	<0.11 [<0.11]	<0.12	<0.12	<0.11	<0.12
Thallium	mg/kg	<0.12	<0.12	<0.13	<0.13	<0.12	NA	NA	<0.12	<0.12	NA	NA	<0.12	<0.11	<0.12 [<0.11]	<0.12	<0.11 [<0.11]	<0.12	<0.12	<0.11	<0.12
Vanadium	mg/kg	8.81	6.04	11.2	6.44	7.21	NA	NA	5.38	7.82	NA	NA	4.32	3.99	7.09 [6.7]	7.66	4.54 [5.56]	5.64	3.84	3.13	10.0
Zinc	mg/kg	17.0	13.5	36.0	32.8	16.7	NA	NA	13.2	17.2	NA	NA	6.83	12.6	18.9 [15.6]	18.9	9.75 [18.4]	18.3	9.35	4.88	36.2
Miscellaneous																					
Total solids	%	90	91	79	83	89	86	84	88	90	92	89	89	90	90 [90]	90	89 [91]	90	89	90	90

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		P2-SB-29 4 - 5 08/31/11	P2-SB-30 3 - 4 08/26/11	P2-SB-30 14 - 15 08/26/11	P2-SB-31 1 - 2 08/30/11	P2-SB-31 9 - 10 08/30/11	P2-SB-32 2 - 3 08/30/11	P2-SB-32 9 - 10 08/30/11	P2-SB-33 5 - 6 08/30/11	P2-SB-33 9 - 10 08/30/11	P2-SB-34 3 - 4 08/30/11	P2-SB-34 9 - 10 08/30/11	P2-SB-35 2 - 3 08/30/11	P2-SB-35 9 - 10 08/30/11	P2-SB-36 5 - 6 08/30/11	P2-SB-36 19 - 20 08/30/11	P2-SB-37 1 - 2 08/31/11	P2-SB-37 9 - 10 08/31/11	SB-A1-RJ79 3 - 4 09/17/12	SB-A1-RJ79 9 - 10 09/17/12	SB-A1-RJ79 16 - 17 09/17/12
	Units																				
Volatile Organics																					
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	NA	<3	<3	<4 J	<3 J	NA	NA	<3 J [<3 J]	<4 J	NA	NA	NA	NA	<4 J	<3	<3	<4	<60 J	<60 J	<60 J
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	NA	<1	<1	<1	<1	NA	NA	<1 [<1]	<1	NA	NA	NA	NA	<2	<1	<1	<1	<60	<60	<60
1,2-Dichlorobenzene	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
1,4-Dichlorobenzene	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
2-Hexanone	ug/kg	NA	<690	<640	<710	<660	NA	NA	<650 [<670]	<750	NA	NA	NA	NA	<750	<610	<630	<720	<570	<560	<630
Acetone	ug/kg	NA	<690	<640	<710	<660	NA	NA	<650 [<670]	<750	NA	NA	NA	NA	<750	<610	<630	<720	<570	<560	<630
Bromodichloromethane	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
Bromoform	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60 J	<60 J	<60 J
Bromomethane (Methyl bromide)	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
Carbon disulfide	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
Carbon tetrachloride	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
Chlorobenzene	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
Chloroform (Trichloromethane)	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
Chloromethane (Methyl chloride)	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
cis-1,3-Dichloropropene	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60 J	<60 J	<60 J
Methyl acetate	ug/kg	NA	<690	<640	<710	<660	NA	NA	<650 [<670]	<750	NA	NA	NA	NA	<750	<610	<630	<720	<570	<560	<630
Methylene chloride	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60 J	<60 J	<60 J
Styrene	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
trans-1,3-Dichloropropene	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60 J	<60 J	<60 J
Trichlorofluoromethane (CFC-11)	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
Trifluorotrichloroethane (Freon 113)	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
1,4-Dioxane	ug/kg	NA	<300	<300	<400	<300	NA	NA	<300 [<300]	<400	NA	NA	NA	NA	<400	<300	<300	<400	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	110	<60	<60	<60
1,1,2,2-Tetrachloroethane	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
1,1,2-Trichloroethane	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
1,1-Dichloroethane	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	150	<60	<60	<60
1,1-Dichloroethene	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
1,2-Dichloroethane	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
cis-1,2-Dichloroethene	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
trans-1,2-Dichloroethene	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
Trichloroethene	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
Tetrachloroethene	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
Vinyl chloride	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
Chloroethane	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	770	<60	<60	<60
Benzene	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
Ethylbenzene	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
Toluene	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	130	<60	<60	<60
o-Xylene	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
m&p-Xylene	ug/kg	NA	<100	<100	<100	<100	NA	NA	<100 [<100]	<100	NA	NA	NA	NA	<200	<100	<100	<100	<100	<100	<100
Xylene (total)	ug/kg	NA	<170	<160	<170	<170	NA	NA	<160 [<170]	<170	NA	NA	NA	NA	<280	<160	<160	<170	<160	<160	<160
Methyl tert butyl ether (MTBE)	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	NA	<690	<640	<710	<660	NA	NA	<650 [<670]	<750	NA	NA	NA	NA	<750	<610	<630	<720	<570	<560	<630
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	NA	<690	<640	<710	<660	NA	NA	<650 [<670]	<750	NA	NA	NA	NA	<750	<610	<630	<720	<570	<560	<630
1,2,4-Trichlorobenzene	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
1,3-Dichlorobenzene	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
Cyclohexane	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
Methyl cyclohexane	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
Dibromochloromethane	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60 J	<60 J	<60 J
Isopropyl benzene	ug/kg	NA	<70	<60	<70	<70	NA	NA	<60 [<70]	<70	NA	NA	NA	NA	<80	<60	<60	<70	<60	<60	<60
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		P2-SB-29 4 - 5 08/31/11	P2-SB-30 3 - 4 08/26/11	P2-SB-30 14 - 15 08/26/11	P2-SB-31 1 - 2 08/30/11	P2-SB-31 9 - 10 08/30/11	P2-SB-32 2 - 3 08/30/11	P2-SB-32 9 - 10 08/30/11	P2-SB-33 5 - 6 08/30/11	P2-SB-33 9 - 10 08/30/11	P2-SB-34 3 - 4 08/30/11	P2-SB-34 9 - 10 08/30/11	P2-SB-35 2 - 3 08/30/11	P2-SB-35 9 - 10 08/30/11	P2-SB-36 5 - 6 08/30/11	P2-SB-36 19 - 20 08/30/11	P2-SB-37 1 - 2 08/31/11	P2-SB-37 9 - 10 08/31/11	SB-A1-RJ79 3 - 4 09/17/12	SB-A1-RJ79 9 - 10 09/17/12	SB-A1-RJ79 16 - 17 09/17/12
Units																					
Semivolatile Organics																					
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100	<100	<100
2-Methyl-4,6-dinitrophenol	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 J	<200 J	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 J	<200 J	NA	NA
2,4,6-Trichlorophenol	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200	NA	NA
2,4-Dichlorophenol	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 J	<200 J	NA	NA
2,4,5-Trichlorophenol	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 J	<200 J	NA	NA
2,4-Dimethylphenol	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 J	<200 J	NA	NA
2,4-Dinitrophenol	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200	NA	NA
2,4-Dinitrotoluene	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200	NA	NA
2,6-Dinitrotoluene	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 J	<200 J	NA	NA
2-Chloronaphthalene	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 J	<200 J	NA	NA
2-Chlorophenol	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200	NA	NA
2-Methylnaphthalene	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200	<100	<100
2-Methylphenol	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200	NA	NA
2-Nitroaniline	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 J	<200 J	NA	NA
2-Nitrophenol	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 J	<200 J	NA	NA
3&4-Methylphenol	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200	NA	NA
3,3'-Dichlorobenzidine	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200	NA	NA
Naphtthalene	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200	<100	<100
3-Nitroaniline	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 J	<200 J	NA	NA
4-Bromophenyl phenyl ether	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200	NA	NA
4-Chloro-3-methylphenol	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200	NA	NA
4-Chloroaniline	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 J	<200 J	NA	NA
4-Chlorophenyl phenyl ether	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 J	<200 J	NA	NA
4-Nitroaniline	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200	NA	NA
4-Nitrophenol	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200	NA	NA
Anthracene	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200	<100	<100
Acenaphthene	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200	<100	<100
Acenaphthylene	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200	<100	<100
Acetophenone	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 J	<200 J	NA	NA
Atrazine	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 J	<200 J	NA	NA
Benzaldehyde	ug/kg	<900 J	<40	<40	<40	<40	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200	NA	NA
Benzo(a)anthracene	ug/kg	<900 J	<40	<40	50	<40	<40	<30	130 [50]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200	<100	<100
Benzo(a)pyrene	ug/kg																				

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		P2-SB-29 4 - 5 08/31/11	P2-SB-30 3 - 4 08/26/11	P2-SB-30 14 - 15 08/26/11	P2-SB-31 1 - 2 08/30/11	P2-SB-31 9 - 10 08/30/11	P2-SB-32 2 - 3 08/30/11	P2-SB-32 9 - 10 08/30/11	P2-SB-33 5 - 6 08/30/11	P2-SB-33 9 - 10 08/30/11	P2-SB-34 3 - 4 08/30/11	P2-SB-34 9 - 10 08/30/11	P2-SB-35 2 - 3 08/30/11	P2-SB-35 9 - 10 08/30/11	P2-SB-36 5 - 6 08/30/11	P2-SB-36 19 - 20 08/30/11	P2-SB-37 1 - 2 08/31/11	P2-SB-37 9 - 10 08/31/11	SB-A1-RJ79 3 - 4 09/17/12	SB-A1-RJ79 9 - 10 09/17/12	SB-A1-RJ79 16 - 17 09/17/12
PCBs																					
Aroclor-1016 (PCB-1016)	ug/kg	NA	<3	<3	<3	<3	NA	NA	<3 <3]	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	<3	<3	<3	<3	NA	NA	<3 <3]	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	<3	<3	<3	<3	NA	NA	<3 <3]	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	<3	<3	<3	<3	NA	NA	<3 <3]	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	<3	<3	<3	<3	NA	NA	<3 <3]	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	<3	<3	<3	<3	NA	NA	<3 <3]	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	<3	<3	<3	<3	NA	NA	<3 <3]	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	<3	<3	<3	<3	NA	NA	<3 <3]	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	NA
Inorganics																					
Antimony	mg/kg	0.66	<0.13	<0.13	<0.12	<0.13	<0.12	<0.11	<0.11 [<0.12]	<0.13	<0.13	<0.12	<0.12	<0.11	<0.14	<0.11	<0.12	<0.13	NA	NA	NA
Arsenic	mg/kg	7.17 ^{abi}	0.57	0.72	2.02	1.04	0.12	<0.11	1.86 [3.06]	0.49	0.82	0.77	2.90	0.32	2.16	1.99	1.08	1.21	NA	NA	NA
Barium	mg/kg	70.0	36.2	21.3	117 ⁱ	55.1	14.3	3.33	44.2 [56.5]	43.7	106 ⁱ	73.1	69.4	19.6	59.2	14.3	37.4	36.0	NA	NA	NA
Beryllium	mg/kg	<0.12	0.33	0.15	0.73	0.31	<0.12	<0.11	0.27 [0.3]	0.30	0.69	0.49	<0.12	0.21	0.43	0.13	0.29	0.37	NA	NA	NA
Boron	mg/kg	11.5 ^a	<5.12	<5.02	<5.0	<5.20	<4.82	<4.18	<4.40 [<4.88]	<5.24	<5.30	<4.90	<4.82	<4.54	<5.48	<4.44	<4.84	<5.20	NA	NA	NA
Cadmium	mg/kg	1.11	0.37	<0.13	0.33	0.15	<0.12	<0.11	0.15 [0.2]	0.16	0.29	<0.12	<0.12	0.20	<0.14	<0.11	<0.12	0.13	NA	NA	NA
Chromium	mg/kg	231 ⁱ	4.27	2.61	14.5	7.72	2.03	0.57	5.36 [9.81]	5.47	9.24	8.18	2.18	3.92	11.4	4.07	8.85	8.57	NA	NA	NA
Cobalt	mg/kg	7.22 ^{abi}	1.79	2.29	10.3 ^{abi}	7.29 ^{abi}	0.52	0.22	4.15 [5.03]	2.44	4.53	5.65	2.36	3.31	5.55	3.02	4.81	4.53	NA	NA	NA
Copper	mg/kg	8,000 ^{abi}	11.0	5.57	12.6	6.47	0.96	0.29	8.94 [14]	13.8	17.7	9.85	2.78	9.95	11.7	7.00	9.19	14.3	NA	NA	NA
Lead	mg/kg	297 ⁱ	6.65	3.66	14.3	5.53	2.11	0.81	56.6 [27] ⁱ	7.79	12.8	8.91	2.21	3.80	6.39	3.96	4.96	6.54	NA	NA	NA
Manganese	mg/kg	591 ^{abi}	50.1	245	696 ^{abi}	375	10.4	2.74	182 [416]	44.1	109	121	808 ^{abi}	231	333	240	377	195	NA	NA	NA
Mercury	mg/kg	0.0174	0.0320	0.0094	0.0352	0.0127	0.0169	<0.0053	0.0193 [0.0215]	0.0234	0.0536	0.0221	0.0083	0.0089	0.0196	0.0060	0.0217	0.0253	NA	NA	NA
Nickel	mg/kg	371 ^{abi}	3.56	7.63	18.9	16.2	1.23	0.61	8.99 [13.3]	17.9	10.8	11.1	3.95	8.98	18.2	8.67	11.5	12.2	NA	NA	NA
Selenium	mg/kg	<0.12	0.40	0.22	0.24	<0.13	0.14	<0.11	0.11 [0.14]	<0.13	0.38	0.14	<0.12	<0.11	<0.14	0.21	<0.12	<0.13	NA	NA	NA
Silver	mg/kg	0.81	<0.13	<0.13	<0.12	<0.13	<0.12	<0.11	<0.11 [<0.12]	<0.13	<0.13	<0.12	<0.12	<0.11	<0.14	<0.11	<0.12	<0.13	NA	NA	NA
Thallium	mg/kg	<0.12	<0.13	<0.13	<0.12	<0.13	<0.12	<0.11	<0.11 [<0.12]	<0.13	<0.13	<0.12	<0.12	<0.11	<0.14	<0.11	<0.12	<0.13	NA	NA	NA
Vanadium	mg/kg	13.9	14.8	3.96	17.9	10.8	1.83	0.57	8.05 [9.64]	8.43	14.9	10.0	3.57	7.61	14.7	7.24	10.8	12.4	NA	NA	NA
Zinc	mg/kg	309 ^{bi}	26.4	9.62	49.1 ⁱ	21.0	6.10	3.32	24.3 [39.4]	13.9	34.6	31.9	12.2	14.7	26.7	14.8	28.7	26.0	NA	NA	NA
Miscellaneous																					
Total solids	%	93	85	87	82	87	89	96	88 [87]	81	78	82	88	87	79	90	88	82	95	96	87

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A1-RM55 1 - 2 09/17/12	SB-A1-RM55 8 - 9 09/17/12	SB-A1-RM55 19 - 20 09/17/12	SB-A1-RQ78 12 - 13 06/07/12	SB-A1-RQ78 17 - 18 06/07/12	SB-A1-RS78 3 - 4 05/17/12	SB-A1-RV74 2 - 3 05/17/12	SB-A1-RV74 8 - 9 05/17/12	SB-A1-RV74 12 - 13 05/17/12	SB-A1-RV74 22 - 23 05/17/12	SB-A1-RV81 2 - 3 05/18/12	SB-A1-RV81 12 - 13 05/18/12	SB-A1-RV81 19 - 20 05/18/12	SB-A1-RV81 22 - 23 05/18/12	SB-A1-RY78 1 - 2 05/18/12	SB-A1-RY78 11 - 12 05/18/12	SB-A1-RY78 21.5 - 22.5 05/18/12
	Units																	
Volatile Organics																		
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
1,2-Dichlorobenzene	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
1,4-Dichlorobenzene	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
2-Hexanone	ug/kg	NA	NA	NA	<640 [<u><660</u>]	<720	<850	<890	<810	<850	<880	<840	<830	<960	<820	<840	<870	<800
Acetone	ug/kg	NA	NA	NA	<640 [<u><660</u>]	<720	<2,700 BJ	<2,200 J	<2,000 J	<2,100 J	<2,200 J	<2,100	<2,100	<2,400	<2,000	2,100 J	<2,200	<2,000
Bromodichloromethane	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
Bromoform	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
Carbon tetrachloride	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
Chlorobenzene	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
Chloroform (Trichloromethane)	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
Chloromethane (Methyl chloride)	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<210	<220	<200	<210	<220	<210	<210	<240	<200	<210	<220	<200
cis-1,3-Dichloropropene	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	<640 [<u><660</u>]	<720	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
Styrene	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
trans-1,3-Dichloropropene	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
1,4-Dioxane	ug/kg	NA	NA	NA	<6,000 [<u><7,000</u>]	<7,000	<850	<890	<810	<850	<880	<840	<830	<960	<820	<840	<870	<800
1,1,1-Trichloroethane	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
1,1,2,2-Tetrachloroethane	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
1,1,2-Trichloroethane	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
1,1-Dichloroethane	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
1,1-Dichloroethene	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
1,2-Dichloroethane	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
cis-1,2-Dichloroethene	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
trans-1,2-Dichloroethene	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
Trichloroethene	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
Tetrachloroethene	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
Vinyl chloride	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
Chloroethane	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
Benzene	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
Ethylbenzene	ug/kg	NA	NA	NA	290 [280]	<70	<85	<89	<81	40 J	<88	<84	<83	<96	<82	<84	<87	<80
Toluene	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
o-Xylene	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	27 J	<88	<84	<83	<96	<82	<84	<87	<80
m&p-Xylene	ug/kg	NA	NA	NA	<100 [<u><100</u>]	<100	<170	<180	<160	<170	<180	<170	<170	<190	<160	<170	<170	<160
Xylene (total)	ug/kg	NA	NA	NA	<160 [<u><170</u>]	<170	<255	<269	<241	27 J	<268	<254	<253	<286	<242	<254	<257	<240
Methyl tert butyl ether (MTBE)	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	NA	NA	NA	<640 [<u><660</u>]	<720	<850	<890	<810	<850	<880	<840	<830	<960	<820	<840	<870	<800
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	NA	NA	NA	<640 [<u><660</u>]	<720	<850	<890	<810	<850	<880	<840	<830	<960	<820	<840	<870	<800
1,2,4-Trichlorobenzene	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	<85	<89	<81	100	<88	<84	<83	<96	<82	<84	<87	<80
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	<85	<89	<81	71 J	<88	<84	<83	<96	<82	<84	<87	<80
1,2-Dichloropropane	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
1,3-Dichlorobenzene	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
Cyclohexane	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
Methyl cyclohexane	ug/kg	NA	NA	NA	290 [280]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
Dibromochloromethane	ug/kg	NA	NA	NA	<60 [<u><70</u>]	<70	<85	<89	<81	<85	<88	<84	<83	<96	<82	<84	<87	<80
Isopropyl benzene	ug/kg	NA	NA	NA	410 [390]	<70	<85	<89	<81	36 J	<88	<84	<83	<96	<82	<84	<87	<80
Naphthalene	ug/kg	NA	NA	NA	NA	NA	<85	<89	96	170	<88	<84	<83	<96	<82	<84	<87	<80

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A1-RM55 1 - 2 09/17/12	SB-A1-RM55 8 - 9 09/17/12	SB-A1-RM55 19 - 20 09/17/12	SB-A1-RQ78 12 - 13 06/07/12	SB-A1-RQ78 17 - 18 06/07/12	SB-A1-RS78 3 - 4 05/17/12	SB-A1-RV74 2 - 3 05/17/12	SB-A1-RV74 8 - 9 05/17/12	SB-A1-RV74 12 - 13 05/17/12	SB-A1-RV74 22 - 23 05/17/12	SB-A1-RV81 2 - 3 05/18/12	SB-A1-RV81 12 - 13 05/18/12	SB-A1-RV81 19 - 20 05/18/12	SB-A1-RV81 22 - 23 05/18/12	SB-A1-RY78 1 - 2 05/18/12	SB-A1-RY78 11 - 12 05/18/12	SB-A1-RY78 21.5 - 22.5 05/18/12
	Units																	
Semivolatile Organics																		
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40	<40	<40	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2,4,6-Trichlorophenol	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2,4-Dichlorophenol	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2,4,5-Trichlorophenol	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2,4-Dimethylphenol	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2,4-Dinitrophenol	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40	<40	<40	<40	<40
2,4-Dinitrotoluene	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2,6-Dinitrotoluene	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2-Chloronaphthalene	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2-Chlorophenol	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2-Methylnaphthalene	ug/kg	NA	NA	NA	9,000 J [10,000 J] ^b	<40	<40	<40	90	<40	<40	<40	<40	<40	<40	<40	<40	<40
2-Methylphenol	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2-Nitroaniline	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2-Nitrophenol	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
3&4-Methylphenol	ug/kg	NA	NA	NA	<2,000 J [<2,000 J]	<80	<70	<80	<80	<70	<70	<70	<70	<80	<70	<70	<80	<70
3,3'-Dichlorobenzidine	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Naphthalene	ug/kg	NA	NA	NA	3,000 J [3,000 J] ^b	<40	<40	<40	<40	70	<40	<40	<40	<40	<40	<40	<40	<40
3-Nitroaniline	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
4-Bromophenyl phenyl ether	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
4-Chloro-3-methylphenol	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
4-Chloroaniline	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
4-Nitroaniline	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
4-Nitrophenol	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40	<40	<40	<40	<40
Anthracene	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40	<40	<40	<40	<40
Acenaphthene	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Acenaphthylene	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Acetophenone	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Atrazine	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40	<40	<40	<40	<40
Benzaldehyde	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Benzo(a)anthracene	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Benzo(a)pyrene	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40	<40	<40	<40	<40
Benzo(b)fluoranthene	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40	<40	<40	<40	<40
Benzo(g,h,i)perylene	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40	<40	<40	<40	<40
Benzo(k)fluoranthene	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Biphenyl (1,1-Biphenyl)	ug/kg	NA	NA	NA	1,000 J [1,000 J]	<40	<40	<40	80	<40	<40	<40	<40	<40	<40	<40	<40	<40
bis(2-Chloroethoxy)methane	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40 J	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
bis(2-Chloroethyl)ether	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	NA	NA	<2,000 J [<2,000 J]	<80	<130 B	<80	<80	<70	<70	<70	<70	140	<70	<70	<80	<70
Butyl benzylphthalate (BBP)	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Caprolactam	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Carbazole	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Chrysene	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Dibenz(a,h)anthracene	ug/kg	NA	NA	NA	<2,000 J [<2,000 J]	<80	<70	<80	<80	<70	<70	<70	<70	<80	<70	<70	<80	<70
Dibenzofuran	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Diethyl phthalate	ug/kg	NA	NA	NA	<2,000 J [<2,000 J]	<80	<70	<80	<80	<70	<70	<70	<70	<80	<70	<70	<80	<70
Dimethyl phthalate	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<80 B	270 B	<400 B	<590 B	<430 B	<340 B	<40 B	<50 B	<100 B	<70 B	<40	<40	<40
Di-n-butylphthalate (DBP)	ug/kg	NA	NA	NA	<2,000 J [<2,000 J]	<80	<70	<80	<80	<70	<70	<70	<70	<80	<70	<70	<80	<70
Di-n-octyl phthalate (DnOP)	ug/kg	NA	NA	NA	<2,000 J [<2,000 J]	<80	<70	<80	<80	<70	<70	<70	<70	<80	<70	<70	<80	<70
Fluoranthene	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Fluorene	ug/kg	NA	NA	NA	1,000 J [1,000 J]	<40	<40	<40	60	<40	<40	<40	<40	<40	<40	<40	<40	<40
Hexachlorobenzene	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Hexachlorobutadiene	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Hexachlorocyclopentadiene	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Hexachloroethane	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Indeno(1,2,3-cd)pyrene	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Isophorone	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Nitrobenzene	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40 J	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
N-Nitrosodi-n-propylamine	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
N-Nitrosodiphenylamine	ug/kg	NA	NA	NA	<1,000 J [<1,000 J]	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40	<40	&		

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A1-RM55	SB-A1-RM55	SB-A1-RM55	SB-A1-RQ78	SB-A1-RQ78	SB-A1-RS78	SB-A1-RV74	SB-A1-RV74	SB-A1-RV74	SB-A1-RV74	SB-A1-RV81	SB-A1-RV81	SB-A1-RV81	SB-A1-RV81	SB-A1-RY78	SB-A1-RY78	SB-A1-RY78
		1 - 2	8 - 9	19 - 20	12 - 13	17 - 18	3 - 4	2 - 3	8 - 9	12 - 13	22 - 23	2 - 3	12 - 13	19 - 20	22 - 23	1 - 2	11 - 12	21.5 - 22.5
		09/17/12	09/17/12	09/17/12	06/07/12	06/07/12	05/17/12	05/17/12	05/17/12	05/17/12	05/17/12	05/18/12	05/18/12	05/18/12	05/18/12	05/18/12	05/18/12	05/18/12
PCBs																		
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																		
Antimony	mg/kg	NA	NA	NA	<0.21 [<0.2]	<0.22	<0.20	<0.22	<0.21	<0.21	<0.20	<0.21	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20
Arsenic	mg/kg	4.06 [3.86]	2.05	2.22	1.39 [1.3]	2.42	0.74	0.65	1.74	1.09	1.90	1.59	0.99	1.81	1.84	1.22	1.12	1.64
Barium	mg/kg	NA	NA	NA	11.4 [16.1]	74.4	4.69	85.9 ⁱ	34.4	29.6	14.1	35.5	31.5	10.0	20.0	33.0	32.4	18.1
Beryllium	mg/kg	NA	NA	NA	<0.21 [<0.2]	0.45	<0.20	0.58	0.23	<0.21	<0.20	<0.21	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20
Boron	mg/kg	NA	NA	NA	<4.2 [<4.1]	<4.4	<4.0	<4.4	<4.2	<4.2	<4.0	<4.2	<4.1	<4.3	<4.0	<4.1	<4.1	<4.0
Cadmium	mg/kg	NA	NA	NA	<0.10 [<0.1]	0.11	<0.10	<0.11	<0.10	<0.10	<0.10	0.11	<0.10	<0.10	<0.10	0.10	<0.10	0.13
Chromium	mg/kg	NA	NA	NA	4.46 [3.27]	16.1	0.76	6.00	5.35	5.30	2.38	3.84	3.61	2.24	2.83	2.62	4.62	2.76
Cobalt	mg/kg	3.97 [4.74]	3.76	4.21	1.69 [2.22]	8.41 ^{abi}	0.96	3.50	4.65	3.52	2.01	2.93	3.31	1.32	2.56	3.24	2.68	2.57
Copper	mg/kg	NA	NA	NA	5.47 [5.98]	15.6	2.44	10.7	7.53	7.93	6.01	3.95	3.97	4.56	7.33	3.86	4.62	7.40
Lead	mg/kg	NA	NA	NA	2.75 [3.57]	7.73	1.80	8.94	5.54	4.18	3.17	4.02	3.47	2.32	3.84	4.37	3.37	3.85
Manganese	mg/kg	224 [259]	237	255	172 [162]	433	137	294	267	237	228	269	229	150	225	209	198	204
Mercury	mg/kg	NA	NA	NA	0.0131 [0.0105]	0.0210	<0.0053	0.0554	0.0127	0.0102	0.0090	0.0157	0.0134	<0.0061	0.0082	0.0162	0.0149	0.0110
Nickel	mg/kg	NA	NA	NA	5.65 [6.16]	22.9 ⁱ	2.48	3.52	10.7	8.53	6.43	6.30	7.14	4.07	7.45	5.73	7.53	7.57
Selenium	mg/kg	NA	NA	NA	<0.21 [<0.2]	<0.22	<0.20	0.26	<0.21	0.27	0.29	<0.21	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20
Silver	mg/kg	0.19 [0.24]	<0.02	0.02	<0.10 [<0.1]	<0.11	<0.10	0.11	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Thallium	mg/kg	NA	NA	NA	<0.21 [<0.2]	<0.22	<0.20	<0.22	<0.21	<0.21	<0.20	<0.21	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20
Vanadium	mg/kg	NA	NA	NA	4.09 [4.66]	20.0	1.34	11.2	8.26	6.89	3.80	5.12	5.45	2.69	4.56	6.43	6.69	4.33
Zinc	mg/kg	NA	NA	NA	10.9 [11.7]	34.3	4.27	9.14	13.5	13.0	9.62	8.10	8.63	10.4	10.1	6.70	10.3	14.4
Miscellaneous																		
Total solids	%	83 [88]	89	89	87 [86]	83	94	82	87	89	92	89	89	84	91	89	88	93

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A2-OP67	SB-A2-OP67	SB-A2-OP67	SB-A2-OP67	SB-A2-OP67	SB-A2-OP67	SB-A2-OT59	SB-A2-OT59	SB-A2-OT59	SB-A2-OT59	SB-A2-OT59	SB-A2-OT59	SB-A2-OT74	SB-A2-OT74	SB-A2-OT74	SB-A2-OT74	SB-A2-OT74	SB-A2-OT74
		1 - 2	7 - 8	14 - 15	19 - 20	24 - 25	28 - 29	1 - 2	5 - 6	10 - 11	23 - 24	29 - 30	1 - 2	6 - 7	10 - 11	17 - 18	23 - 24	29 - 30	
		09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	
		Units																	
Volatile Organics																			
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
1,2-Dichlorobenzene	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
1,4-Dichlorobenzene	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
2-Hexanone	ug/kg	<650	<610	<570	<580	<570	<630	<640	<620	<610	<610	<610	<610	<590	<580	<570	<600	<650	<630
Acetone	ug/kg	<650	<610	<570	<580	<570	<630	<640	<620	<610	<610	<610	<610	<590	<580	<570	<600	<650	<630
Bromodichloromethane	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Bromoform	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Bromomethane (Methyl bromide)	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Carbon disulfide	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Carbon tetrachloride	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Chlorobenzene	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Chloroform (Trichloromethane)	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Chloromethane (Methyl chloride)	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
cis-1,3-Dichloropropene	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Dichlorodifluoromethane (CFC-12)	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Methyl acetate	ug/kg	<650	<610	<570	<580	<570	<630	<640	<620	<610	<610	<610	<610	<590	<580	<570	<600	<650	<630
Methylene chloride	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Styrene	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
trans-1,3-Dichloropropene	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Trichlorofluoromethane (CFC-11)	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Trifluorotrichloroethane (Freon 113)	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	100	1,280	1,100	<60
1,1,2,2-Tetrachloroethane	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
1,1,2-Trichloroethane	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
1,1-Dichloroethane	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	160	160	<60
1,1-Dichloroethene	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	210	210	<60
1,2-Dichloroethane	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
cis-1,2-Dichloroethene	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
trans-1,2-Dichloroethene	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Trichloroethene	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Tetrachloroethene	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Vinyl chloride	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Chloroethane	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Benzene	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Ethylbenzene	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Toluene	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
o-Xylene	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
m&p-Xylene	ug/kg	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Xylene (total)	ug/kg	<160	<160	<160	<160	<160	<160	<160	<160	<160	<160	<160	<160	<160	<160	<160	<160	<160	<160
Methyl tert butyl ether (MTBE)	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<650	<610	<570	<580	<570	<630	<640	<620	<610	<610	<610	<610	<590	<580	<570	<600	<650	<630
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<650	<610	<570	<580	<570	<630	<640	<620	<610	<610	<610	<610	<590	<580	<570	<600	<650	<630
1,2,4-Trichlorobenzene	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
1,3-Dichlorobenzene	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Cyclohexane	ug/kg	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60							

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A2-OP67	SB-A2-OP67	SB-A2-OP67	SB-A2-OP67	SB-A2-OP67	SB-A2-OP67	SB-A2-OT59	SB-A2-OT59	SB-A2-OT59	SB-A2-OT59	SB-A2-OT59	SB-A2-OT74	SB-A2-OT74	SB-A2-OT74	SB-A2-OT74	SB-A2-OT74	SB-A2-OT74
		1 - 2	7 - 8	14 - 15	19 - 20	24 - 25	28 - 29	1 - 2	5 - 6	10 - 11	23 - 24	29 - 30	1 - 2	6 - 7	10 - 11	17 - 18	23 - 24	29 - 30
		09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12
		Semivolatile Organics																
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Napthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A2-OP67	SB-A2-OP67	SB-A2-OP67	SB-A2-OP67	SB-A2-OP67	SB-A2-OP67	SB-A2-OT59	SB-A2-OT59	SB-A2-OT59	SB-A2-OT59	SB-A2-OT59	SB-A2-OT74	SB-A2-OT74	SB-A2-OT74	SB-A2-OT74	SB-A2-OT74	SB-A2-OT74
		1 - 2	7 - 8	14 - 15	19 - 20	24 - 25	28 - 29	1 - 2	5 - 6	10 - 11	23 - 24	29 - 30	1 - 2	6 - 7	10 - 11	17 - 18	23 - 24	29 - 30
		09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12
PCBs																		
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																		
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																		
Total solids	%	89	90	95	91	91	90	88	88	91	91	92	90	91	93	89 [88]	90	91

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A2-OU52 2 - 3 11/07/12	SB-A2-OU52 7 - 8 11/07/12	SB-A2-OU52 13 - 14 11/07/12	SB-A2-OU52 18 - 19 11/07/12	SB-A2-OU52 24 - 25 11/07/12	SB-A2-OU52 29 - 30 11/07/12	SB-A2-OU62 1 - 2 09/05/12	SB-A2-OU62 5 - 6 09/05/12	SB-A2-OU62 11 - 12 09/05/12	SB-A2-OU62 23 - 24 09/05/12	SB-A2-OU62 29 - 30 09/05/12	SB-A2-OU70 3 - 4 09/05/12	SB-A2-OU70 9 - 10 09/05/12	SB-A2-OU70 11 - 12 09/05/12	SB-A2-OU70 16 - 17 09/05/12	SB-A2-OU70 29 - 30 09/05/12	SB-A2-OU76 2 - 3 11/08/12
	Units																	
Volatile Organics																		
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<70
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<70
1,2-Dichlorobenzene	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<70
1,4-Dichlorobenzene	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<70
2-Hexanone	ug/kg	<680	<600	<630	<600	<580	<680	<660	<590	<580	<600	<600	<640	<630	<630 [<u><640</u>]	<600	<590	<720
Acetone	ug/kg	<680	<600	<630	<600	<580	<680	<660	<590	<580	<600	<600	<640	<630	<630 [<u><640</u>]	<600	<590	<720
Bromodichloromethane	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
Bromoform	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
Bromomethane (Methyl bromide)	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
Carbon disulfide	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
Carbon tetrachloride	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
Chlorobenzene	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
Chloroform (Trichloromethane)	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
Chloromethane (Methyl chloride)	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
cis-1,3-Dichloropropene	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
Dichlorodifluoromethane (CFC-12)	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
Methyl acetate	ug/kg	<680	<600	<630	<600	<580	<680	<660	<590	<580	<600	<600	<640	<630	<630 [<u><640</u>]	<600	<590	<720
Methylene chloride	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
Styrene	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
trans-1,3-Dichloropropene	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
Trichlorofluoromethane (CFC-11)	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
Trifluorotrichloroethane (Freon 113)	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	260	<60 [<u><60</u>]	120	<60	<70
1,1,2,2-Tetrachloroethane	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
1,1,2-Trichloroethane	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
1,1-Dichloroethane	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
1,1-Dichloroethene	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
1,2-Dichloroethane	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
cis-1,2-Dichloroethene	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
trans-1,2-Dichloroethene	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
Trichloroethene	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
Tetrachloroethene	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	1,800^{ab}	8,240^{ab}	1,600 [<u>1,630</u>]^{ab}	1,060^a	<60	<70
Vinyl chloride	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
Chloroethane	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
Benzene	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
Ethylbenzene	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
Toluene	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
o-Xylene	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
m&p-Xylene	ug/kg	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100 [<u><100</u>]	<100	<100	<100
Xylene (total)	ug/kg	<170	<160	<160	<160	<160	<170	<170	<160	<160	<160	<160	<160	<160	<160 [<u><160</u>]	<160	<160	<170
Methyl tert butyl ether (MTBE)	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<680	<600	<630	<600	<580	<680	<660	<590	<580	<600	<600	<640	<630	<630 [<u><640</u>]	<600	<590	<720
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<680	<600	<630	<600	<580	<680	<660	<590	<580	<600	<600	<640	<630	<630 [<u><640</u>]	<600	<590	<720
1,2,4-Trichlorobenzene	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
1,3-Dichlorobenzene	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
Cyclohexane	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
Methyl cyclohexane	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
Dibromochloromethane	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
Isopropyl benzene	ug/kg	<70	<60	<60	<60	<60	<70	<70	<60	<60	<60	<60	<60	<60	<60 [<u><60</u>]	<60	<60	<70
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

[illegible]

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A2-OU52	SB-A2-OU52	SB-A2-OU52	SB-A2-OU52	SB-A2-OU52	SB-A2-OU52	SB-A2-OU62	SB-A2-OU62	SB-A2-OU62	SB-A2-OU62	SB-A2-OU62	SB-A2-OU62	SB-A2-OU70	SB-A2-OU70	SB-A2-OU70	SB-A2-OU70	SB-A2-OU70	SB-A2-OU76
		2 - 3	7 - 8	13 - 14	18 - 19	24 - 25	29 - 30	1 - 2	5 - 6	11 - 12	23 - 24	29 - 30	3 - 4	9 - 10	11 - 12	16 - 17	29 - 30	2 - 3	
		11/07/12	11/07/12	11/07/12	11/07/12	11/07/12	11/07/12	09/05/12	09/05/12	09/05/12	09/05/12	09/05/12	09/05/12	09/05/12	09/05/12	09/05/12	09/05/12	11/08/12	
PCBs																			
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																			
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	0.52	0.88	1.18	2.34	3.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	2.46	4.59	5.07	5.47	2.31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	164	288	320	318	249	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	<0.02	0.03	0.04	0.04	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																			
Total solids	%	84	92	90	89	91	84	86	90	92	91	92	90	89	89 [89]	90	92	84	

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A2-OX76 7 - 8 11/08/12	SB-A2-OX76 13 - 14 11/08/12	SB-A2-OX76 18 - 19 11/08/12	SB-A2-OX76 23 - 24 11/08/12	SB-A2-OX76 29 - 30 11/08/12	SB-A2-OY47 2 - 3 11/30/12	SB-A2-OY47 8 - 9 11/30/12	SB-A2-OY47 18 - 19 11/30/12	SB-A2-OY47 29 - 30 11/30/12	SB-A2-OY52 3 - 4 11/07/12	SB-A2-OY52 7 - 8 11/07/12	SB-A2-OY52 12 - 13 11/07/12	SB-A2-OY52 20 - 21 11/07/12	SB-A2-OY52 25 - 26 11/07/12	SB-A2-OY52 29 - 30 11/07/12	SB-A2-OY56 4 - 5 09/13/12	SB-A2-OY56 8 - 9 09/13/12
	Units																	
Volatile Organics																		
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
1,2-Dichlorobenzene	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
1,4-Dichlorobenzene	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
2-Hexanone	ug/kg	<530	<610	<540	<590	<680	NA	NA	NA	NA	<590	<620	<540	<620	<660	<630	<630	<650
Acetone	ug/kg	<530	<610	<540	<590	<680	NA	NA	NA	NA	<590	<620	<540	<620	<660	<630	<630	<650
Bromodichloromethane	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
Bromoform	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
Bromomethane (Methyl bromide)	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
Carbon disulfide	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
Carbon tetrachloride	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
Chlorobenzene	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
Chloroform (Trichloromethane)	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
Chloromethane (Methyl chloride)	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
cis-1,3-Dichloropropene	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
Dichlorodifluoromethane (CFC-12)	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
Methyl acetate	ug/kg	<530	<610	<540	<590	<680	NA	NA	NA	NA	<590	<620	<540	<620	<660	<630	<630	<650
Methylene chloride	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
Styrene	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
trans-1,3-Dichloropropene	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
Trichlorofluoromethane (CFC-11)	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
Trifluorotrichloroethane (Freon 113)	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
1,1,2,2-Tetrachloroethane	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
1,1,2-Trichloroethane	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
1,1-Dichloroethane	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
1,1-Dichloroethene	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
1,2-Dichloroethane	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
cis-1,2-Dichloroethene	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
trans-1,2-Dichloroethene	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
Trichloroethene	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
Tetrachloroethene	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
Vinyl chloride	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
Chloroethane	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
Benzene	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
Ethylbenzene	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
Toluene	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
o-Xylene	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
m&p-Xylene	ug/kg	<100	<100	<100	<100	<100	NA	NA	NA	NA	<100	<100	<100	<100	<100	<100	<100	<100
Xylene (total)	ug/kg	<150	<160	<150	<160	<170	NA	NA	NA	NA	<160	<160	<150	<160	<170	<160	<160	<160
Methyl tert butyl ether (MTBE)	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<530	<610	<540	<590	<680	NA	NA	NA	NA	<590	<620	<540	<620	<660	<630	<630	<650
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<530	<610	<540	<590	<680	NA	NA	NA	NA	<590	<620	<540	<620	<660	<630	<630	<650
1,2,4-Trichlorobenzene	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
1,3-Dichlorobenzene	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
Cyclohexane	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
Methyl cyclohexane	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
Dibromochloromethane	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
Isopropyl benzene	ug/kg	<50	<60	<50	<60	<70	NA	NA	NA	NA	<60	<60	<50	<60	<70	<60	<60	<60
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A2-OX76 7 - 8 11/08/12	SB-A2-OX76 13 - 14 11/08/12	SB-A2-OX76 18 - 19 11/08/12	SB-A2-OX76 23 - 24 11/08/12	SB-A2-OX76 29 - 30 11/08/12	SB-A2-OY47 2 - 3 11/30/12	SB-A2-OY47 8 - 9 11/30/12	SB-A2-OY47 18 - 19 11/30/12	SB-A2-OY47 29 - 30 11/30/12	SB-A2-OY52 3 - 4 11/07/12	SB-A2-OY52 7 - 8 11/07/12	SB-A2-OY52 12 - 13 11/07/12	SB-A2-OY52 20 - 21 11/07/12	SB-A2-OY52 25 - 26 11/07/12	SB-A2-OY52 29 - 30 11/07/12	SB-A2-OY56 4 - 5 09/13/12	SB-A2-OY56 8 - 9 09/13/12
	Units																	
Semivolatile Organics																		
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A2-OX76	SB-A2-OX76	SB-A2-OX76	SB-A2-OX76	SB-A2-OX76	SB-A2-OY47	SB-A2-OY47	SB-A2-OY47	SB-A2-OY47	SB-A2-OY47	SB-A2-OY52	SB-A2-OY52	SB-A2-OY52	SB-A2-OY52	SB-A2-OY52	SB-A2-OY56	SB-A2-OY56
		7 - 8	13 - 14	18 - 19	23 - 24	29 - 30	2 - 3	8 - 9	18 - 19	29 - 30	3 - 4	7 - 8	12 - 13	20 - 21	25 - 26	29 - 30	4 - 5	8 - 9
		11/08/12	11/08/12	11/08/12	11/08/12	11/08/12	11/30/12	11/30/12	11/30/12	11/30/12	11/07/12	11/07/12	11/07/12	11/07/12	11/07/12	11/07/12	09/13/12	09/13/12
PCBs																		
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																		
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	0.49	1.78	1.87	1.98	2.26	3.99	1.85	3.04	2.90	2.77	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	1.52	2.99	3.01	3.08	2.40	7.44 ^{abi}	1.54	3.18	2.22	4.44	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	37.1	186	208	237	186	477 ^{abi}	115	214	209	318	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA	<0.02	<0.02	0.02	0.03	<0.02	<0.02	<0.02	0.02	0.02	0.03	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																		
Total solids	%	95	90	97	90	87	90	90	92	89	91	90	94	91	85	91	89	89

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A2-OY56 13 - 14 09/13/12	SB-A2-OY56 24 - 25 09/13/12	SB-A2-OY56 29 - 30 09/13/12	SB-A2-PA65 1 - 2 06/04/12	SB-A2-PA65 9.5 - 10.5 06/04/12	SB-A2-PA65 16 - 17 06/04/12	SB-A2-PB67 0 - 1 06/04/12	SB-A2-PB67 9.5 - 10.5 06/04/12	SB-A2-PB67 16 - 17 06/04/12	SB-A2-PB80 2 - 3 09/25/12	SB-A2-PB80 7 - 8 09/25/12	SB-A2-PB80 15 - 16 09/25/12	SB-A2-PB80 21 - 22 09/25/12	SB-A2-PB80 29 - 30 09/25/12	SB-A2-PC52 2.5 - 3.5 11/08/12	SB-A2-PC52 7 - 8 11/08/12	SB-A2-PC52 12 - 13 11/08/12
	Units																	
Volatile Organics																		
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
1,2-Dichlorobenzene	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
1,4-Dichlorobenzene	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
2-Hexanone	ug/kg	<610	<580	<600	<740	<710	<2,800	<660	<630 [<590]	<580	<630	<6,900	<600	<600	<540	<600	<600	<690
Acetone	ug/kg	<610	<580	<600	<740	<710	<2,800	<660	<630 [<590]	<580	<630	<6,900	<600	<600	<540	<600	<600	<690
Bromodichloromethane	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
Bromoform	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
Bromomethane (Methyl bromide)	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
Carbon disulfide	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
Carbon tetrachloride	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
Chlorobenzene	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60 J	<60	<700	<60	<60	<50	<60	<60	<70
Chloroform (Trichloromethane)	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
Chloromethane (Methyl chloride)	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
cis-1,3-Dichloropropene	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
Dichlorodifluoromethane (CFC-12)	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
Methyl acetate	ug/kg	<610	<580	<600	<740	<710	<2,800	<660	<630 [<590]	<580	<630	<6,900	<600	<600	<540	<600	<600	<690
Methylene chloride	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
Styrene	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
trans-1,3-Dichloropropene	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
Trichlorofluoromethane (CFC-11)	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
Trifluorotrichloroethane (Freon 113)	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
1,4-Dioxane	ug/kg	NA	NA	NA	<7,000	<7,000	<6,000	<7,000	<6,000 [<6,000]	<6,000	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	<60	<60	<60	<70	<70	600 Y	<70	<60 [<60]	1,930 ^b	<60	<700	<60	<60	<50	<60	<60	<70
1,1,2,2-Tetrachloroethane	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
1,1,2-Trichloroethane	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
1,1-Dichloroethane	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
1,1-Dichloroethene	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	60	<60	<700	<60	<60	<50	<60	<60	<70
1,2-Dichloroethane	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
cis-1,2-Dichloroethene	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
trans-1,2-Dichloroethene	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
Trichloroethene	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60 J	<60	<700	<60	<60	<50	<60	<60	<70
Tetrachloroethene	ug/kg	<60	<60	<60	130 ^a	<70	15,300 Y ^{ab}	<70	1,630 [1,720] ^{ab}	310 ^a	<60	<700	<60	<60	<50	<60	<60	<70
Vinyl chloride	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
Chloroethane	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
Benzene	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60 J	<60	<700	3,340 ^a	<60	<50	<60	<60	<70
Ethylbenzene	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	17,900 Y ^{ab}	90	<60	<50	<60	<60	<70
Toluene	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60 J	<60	900 Y	390	<60	<50	<60	<60	<70
o-Xylene	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	3,300 Y ^b	90	<60	<50	<60	<60	<70
m&p-Xylene	ug/kg	<100	<100	<100	<100	<100	<600	<100	<100 [<100]	<100	<100	42,000 Y ^{ab}	1,000 ^b	<100	<100	<100	<100	<100
Xylene (total)	ug/kg	<160	<160	<160	<170	<170	<900	<170	<160 [<160]	<160	<160	45,300 ^{ab}	1,090 ^b	<160	<150	<160	<160	<170
Methyl tert butyl ether (MTBE)	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<610	<580	<600	<740	<710	<2,800	<660	<630 [<590]	<580	<630	<6,900	<600	<600	<540	<600	<600	<690
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<610	<580	<600	<740	<710	<2,800	<660	<630 [<590]	<580	<630	<6,900	<600	<600	<540	<600	<600	<690
1,2,4-Trichlorobenzene	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
1,3-Dichlorobenzene	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
Cyclohexane	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
Methyl cyclohexane	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
Dibromochloromethane	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	<700	<60	<60	<50	<60	<60	<70
Isopropyl benzene	ug/kg	<60	<60	<60	<70	<70	<300	<70	<60 [<60]	<60	<60	1,900 Y	<60	<60	<50	<60	<60	<70
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A2-OY56	SB-A2-OY56	SB-A2-OY56	SB-A2-PA65	SB-A2-PA65	SB-A2-PA65	SB-A2-PB67	SB-A2-PB67	SB-A2-PB67	SB-A2-PB80	SB-A2-PB80	SB-A2-PB80	SB-A2-PB80	SB-A2-PB80	SB-A2-PC52	SB-A2-PC52	SB-A2-PC52
		13 - 14	24 - 25	29 - 30	1 - 2	9.5 - 10.5	16 - 17	0 - 1	9.5 - 10.5	16 - 17	2 - 3	7 - 8	15 - 16	21 - 22	29 - 30	2.5 - 3.5	7 - 8	12 - 13
		09/13/12	09/13/12	09/13/12	06/04/12	06/04/12	06/04/12	06/04/12	06/04/12	06/04/12	09/25/12	09/25/12	09/25/12	09/25/12	09/25/12	11/08/12	11/08/12	11/08/12
Semivolatile Organics																		
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40 J	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/kg	NA	NA	NA	<40	<40	<40 J	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40 J	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40 J	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/kg	NA	NA	NA	<80	<80	<70	<80	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40 J	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40 J	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40 J	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40 J	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40 J	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40 J	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40 J	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40 J	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/kg	NA	NA	NA	<40	<40	<40 J	<40	<40	<40 J	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40 J	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	NA	NA	<80	<80	<70	<80	<70	<70 J	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40 J	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40 J	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/kg	NA	NA	NA	<80	<80	<70	<80	<70	<70 J	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/kg	NA	NA	NA	<80	<80	<70	<80	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/kg	NA	NA	NA	<130 B	<140 B	<130 BJ	<120 B	<110 B	<90 B	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/kg	NA	NA	NA	<80	<80	<70	<80	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/kg	NA	NA	NA	<80	<80	<70	<80	<70	<70 J	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40 J	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/kg	NA	NA	NA	<40	<40	<40	<40	<40	<40 J	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/kg	NA	NA	NA	<40	<40	<40 J	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane</																		

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A2-OY56	SB-A2-OY56	SB-A2-OY56	SB-A2-PA65	SB-A2-PA65	SB-A2-PA65	SB-A2-PB67	SB-A2-PB67	SB-A2-PB67	SB-A2-PB80	SB-A2-PB80	SB-A2-PB80	SB-A2-PB80	SB-A2-PB80	SB-A2-PB80	SB-A2-PC52	SB-A2-PC52	SB-A2-PC52
		13 - 14	24 - 25	29 - 30	1 - 2	9.5 - 10.5	16 - 17	0 - 1	9.5 - 10.5	16 - 17	2 - 3	7 - 8	15 - 16	21 - 22	29 - 30	2.5 - 3.5	7 - 8	12 - 13	
		09/13/12	09/13/12	09/13/12	06/04/12	06/04/12	06/04/12	06/04/12	06/04/12	06/04/12	09/25/12	09/25/12	09/25/12	09/25/12	09/25/12	11/08/12	11/08/12	11/08/12	
Units																			
PCBs																			
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																			
Antimony	mg/kg	NA	NA	NA	<0.21	<0.20	<0.20	<0.21	<0.20 [<0.2]	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	53.2 ^{abfi}	0.78	1.39	1.67	0.87 [1.24]	1.43	NA	NA	NA	NA	NA	0.87	1.84	0.75	
Barium	mg/kg	NA	NA	NA	42.2	6.97	15.4	10.9	20.9 [20.6]	17.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	0.25	<0.20	<0.20	<0.21	<0.20 [<0.2]	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/kg	NA	NA	NA	<4.2	<4.1	<4.1	<4.2	<4.0 [<4]	<4.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	0.11	<0.10	<0.10	<0.10	<0.10 [<0.1]	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	6.12	1.62	5.26	2.85	4.94 [5.62]	4.85	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	5.36	0.59	3.22	29.3 ^{abi}	4.21 [3.52]	3.21	NA	NA	NA	NA	NA	1.80	6.10	1.62	
Copper	mg/kg	NA	NA	NA	5.76	2.20	8.54	3.50	6.39 [7]	8.19	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	5.92	1.34	3.60	2.53	7.95 [4.11]	3.49	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	353	99.3	191	180	250 [181]	230	NA	NA	NA	NA	NA	136	301	191	
Mercury	mg/kg	NA	NA	NA	0.0283	<0.0057	0.0066	0.0105	0.0132 [0.0116]	0.0100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	9.43	2.35	8.77	5.83	9.68 [8.68]	9.83	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	<0.21	<0.20	<0.20	<0.21	0.25 [0.24]	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	0.12	<0.10	<0.10	6.20 ^{abi}	<0.10 [<0.1]	<0.10	NA	NA	NA	NA	NA	<0.02	<0.02	0.02	
Thallium	mg/kg	NA	NA	NA	<0.21	<0.20	<0.20	<0.21	<0.20 [<0.2]	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	9.41	2.40	6.96	4.09	8.11 [7.73]	7.61	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	16.9	5.61	18.1	8.40	19.2 [15.1]	16.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																			
Total solids	%	90	91	91	84	86	92	88	90 [90]	91	88	85	89	91	96	92	90	84	

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID:			SB-A2-PC52	SB-A2-PC52	SB-A2-PC64	SB-A2-PC64	SB-A2-PC64	SB-A2-PC64	SB-A2-PC76	SB-A2-PC76	SB-A2-PC76	SB-A2-PC76	SB-A2-PC76	SB-A2-PC76	SB-A2-PD65	SB-A2-PD65	SB-A2-PD65	SB-A2-PD65
Sample Depth(ft):			18 - 19	23 - 24	1 - 2	5 - 6	15 - 16	18 - 19	2 - 3	9.5 - 10	10 - 11	17 - 18	23 - 24	29 - 30	1 - 2	9 - 10	15 - 16	16 - 17
Date Collected:			11/08/12	11/08/12	06/04/12	06/04/12	06/04/12	06/04/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	06/04/12	06/04/12	06/04/12	06/04/12
		Units																
Volatile Organics																		
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
1,2-Dichlorobenzene	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
1,4-Dichlorobenzene	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
2-Hexanone	ug/kg	<600	<610	<870	<680	<680 [<620]	<660	<670	<6,400	<650 [<640]	<600	<590	<500	<640	<940	<750	<690	
Acetone	ug/kg	<600	<610	<870	<680	<680 [<620]	<660	<670	<6,400	<650 [<640]	<600	<590	<500	<640	<940	<750	<690	
Bromodichloromethane	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
Bromoform	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
Bromomethane (Methyl bromide)	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
Carbon disulfide	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
Carbon tetrachloride	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
Chlorobenzene	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
Chloroform (Trichloromethane)	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
Chloromethane (Methyl chloride)	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
cis-1,3-Dichloropropene	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
Dichlorodifluoromethane (CFC-12)	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
Methyl acetate	ug/kg	<600	<610	<870	<680	<680 [<620]	<660	<670	<6,400	<650 [<640]	<600	<590	<500	<640	<940	<750	<690	
Methylene chloride	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
Styrene	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
trans-1,3-Dichloropropene	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
Trichlorofluoromethane (CFC-11)	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
Trifluorotrichloroethane (Freon 113)	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
1,4-Dioxane	ug/kg	NA	NA	<9,000	<7,000	<7,000 [<6,000]	<7,000	NA	NA	NA	NA	NA	NA	NA	<6,000	<9,000	<7,000	<7,000
1,1,1-Trichloroethane	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
1,1,2,2-Tetrachloroethane	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
1,1,2-Trichloroethane	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
1,1-Dichloroethane	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
1,1-Dichloroethene	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
1,2-Dichloroethane	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	1,710 ^a	<50	<60	<90	<70	<70	
cis-1,2-Dichloroethene	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
trans-1,2-Dichloroethene	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
Trichloroethene	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
Tetrachloroethene	ug/kg	<60	<60	<90	<70	<70 [<60]	750 ^a	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	730 ^a	1,700 ^{ab}	
Vinyl chloride	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
Chloroethane	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
Benzene	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	700 Y ^a	2,730 [1,990] ^a	15,300 D ^{abd}	11,240 ^{abd}	<50	<60	<90	<70	<70	
Ethylbenzene	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	25,200 Y ^{ab}	18,400 D [16,100 D] ^{ab}	<60	<60	<50	<60	<90	<70	<70	
Toluene	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	24,500 Y ^{ab}	40,400 D [33,800 D] ^{ab}	22,900 D ^{ab}	<60	<50	<60	<90	<70	<70	
o-Xylene	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	28,900 Y ^{ab}	23,800 D [21,600 D] ^{ab}	<60	<60	<50	<60	<90	<70	<70	
m&p-Xylene	ug/kg	<100	<100	<200	<100	<100 [<100]	<100	<100	75,000 Y ^{ab}	57,000 D [51,000 D] ^{ab}	<100	<100	<100	<100	<200	<100	<100	
Xylene (total)	ug/kg	<160	<160	<290	<170	<170 [<160]	<170	<170	103,900 ^{ab}	80,800 [72,600] ^{ab}	<160	<160	<150	<160	<290	<170	<170	
Methyl tert butyl ether (MTBE)	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<600	<610	<870	<680	<680 [<620]	<660	<670	<6,400	<650 [<640]	<600	<590	<500	<640	<940	<750	<690	
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<600	<610	<870	<680	<680 [<620]	<660	<670	<6,400	<650 [<640]	<600	<590	<500	<640	<940	<750	<690	
1,2,4-Trichlorobenzene	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,2-Dichloropropane	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
1,3-Dichlorobenzene	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
Cyclohexane	ug/kg	<60	<60	<90	<70	<70 [<60]	<70	<70	<600	<60 [<60]	<60	<60	<50	<60	<90	<70	<70	
Methyl cyclohexane	ug/kg	<60	<60	<90	<70	<70 [<60]	<>											

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A2-PC52 18 - 19 11/08/12	SB-A2-PC52 23 - 24 11/08/12	SB-A2-PC64 1 - 2 06/04/12	SB-A2-PC64 5 - 6 06/04/12	SB-A2-PC64 15 - 16 06/04/12	SB-A2-PC64 18 - 19 06/04/12	SB-A2-PC76 2 - 3 09/13/12	SB-A2-PC76 9.5 - 10 09/13/12	SB-A2-PC76 10 - 11 09/13/12	SB-A2-PC76 17 - 18 09/13/12	SB-A2-PC76 23 - 24 09/13/12	SB-A2-PC76 29 - 30 09/13/12	SB-A2-PD65 1 - 2 06/04/12	SB-A2-PD65 9 - 10 06/04/12	SB-A2-PD65 15 - 16 06/04/12	SB-A2-PD65 16 - 17 06/04/12
	Units																
Semivolatile Organics																	
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
2,4,6-Trichlorophenol	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
2,4-Dichlorophenol	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
2,4,5-Trichlorophenol	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
2,4-Dimethylphenol	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
2,4-Dinitrophenol	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
2,4-Dinitrotoluene	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
2,6-Dinitrotoluene	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
2-Chloronaphthalene	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
2-Chlorophenol	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
2-Methylnaphthalene	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
2-Methylphenol	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
2-Nitroaniline	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
2-Nitrophenol	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
3&4-Methylphenol	ug/kg	NA	NA	<80	<70	<80 [<70]	<80	NA	NA	NA	NA	NA	NA	<80	<90	<80	<70
3,3'-Dichlorobenzidine	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Naphthalene	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
3-Nitroaniline	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
4-Bromophenyl phenyl ether	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
4-Chloro-3-methylphenol	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
4-Chloroaniline	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
4-Nitroaniline	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
4-Nitrophenol	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Anthracene	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Acenaphthene	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Acenaphthylene	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Acetophenone	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Atrazine	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Benzaldehyde	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Benzo(a)anthracene	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Benzo(a)pyrene	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Benzo(b)fluoranthene	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Benzo(g,h,i)perylene	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Benzo(k)fluoranthene	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Biphenyl (1,1-Biphenyl)	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
bis(2-Chloroethoxy)methane	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
bis(2-Chloroethyl)ether	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	NA	<80	<70	<80 [<70]	<80	NA	NA	NA	NA	NA	NA	<80	<90	<80	<70
Butyl benzylphthalate (BBP)	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Caprolactam	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Carbazole	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Chrysene	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Dibenz(a,h)anthracene	ug/kg	NA	NA	<80	<70	<80 [<70]	<80	NA	NA	NA	NA	NA	NA	<80	<90	<80	<70
Dibenzofuran	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Diethyl phthalate	ug/kg	NA	NA	<80	<70	<80 [<70]	<80	NA	NA	NA	NA	NA	NA	<80	<90	<80	<70
Dimethyl phthalate	ug/kg	NA	NA	<100 B	<110 B	<170 B [<180 B]	<60 B	NA	NA	NA	NA	NA	NA	<270 B	<200 B	<180 B	<150 B
Di-n-butylphthalate (DBP)	ug/kg	NA	NA	<80	<70	<80 [<70]	<80	NA	NA	NA	NA	NA	NA	<80	<90	<80	<70
Di-n-octyl phthalate (DnOP)	ug/kg	NA	NA	<80	<70	<80 [<70]	<80	NA	NA	NA	NA	NA	NA	<80	<90	<80	<70
Fluoranthene	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Fluorene	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Hexachlorobenzene	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Hexachlorobutadiene	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Hexachlorocyclopentadiene	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Hexachloroethane	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Indeno(1,2,3-cd)pyrene	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Isophorone	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Nitrobenzene	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
N-Nitrosodi-n-propylamine	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
N-Nitrosodiphenylamine	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Pentachlorophenol	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Phenanthrene	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Phenol	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40
Pyrene	ug/kg	NA	NA	<40	<40	<40 [<40]	<40	NA	NA	NA	NA	NA	NA	<40	<50	<40	<40

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A2-PC52	SB-A2-PC52	SB-A2-PC64	SB-A2-PC64	SB-A2-PC64	SB-A2-PC64	SB-A2-PC76	SB-A2-PC76	SB-A2-PC76	SB-A2-PC76	SB-A2-PC76	SB-A2-PC76	SB-A2-PC76	SB-A2-PD65	SB-A2-PD65	SB-A2-PD65	SB-A2-PD65
		18 - 19	23 - 24	1 - 2	5 - 6	15 - 16	18 - 19	2 - 3	9.5 - 10	10 - 11	17 - 18	23 - 24	29 - 30	1 - 2	9 - 10	15 - 16	16 - 17	
		11/08/12	11/08/12	06/04/12	06/04/12	06/04/12	06/04/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	06/04/12	06/04/12	06/04/12	06/04/12
PCBs																		
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																		
Antimony	mg/kg	NA	NA	<0.21	<0.20	<0.21 [<0.21]	<0.20	NA	NA	NA	NA	NA	NA	NA	<0.20	<0.22	<0.20	<0.20
Arsenic	mg/kg	3.32	3.66	2.30	1.05	2.20 [1.89]	1.12	NA	NA	NA	NA	NA	NA	NA	0.79	2.00	1.09	1.20
Barium	mg/kg	NA	NA	83.6 ⁱ	38.5	31.6 [30.1]	8.28	NA	NA	NA	NA	NA	NA	NA	10.9	138 ⁱ	9.98	38.8
Beryllium	mg/kg	NA	NA	0.49	0.27	0.31 [0.25]	<0.20	NA	NA	NA	NA	NA	NA	NA	<0.20	0.80	<0.20	0.24
Boron	mg/kg	NA	NA	<4.3	<4.0	<4.3 [<4.2]	<4.1	NA	NA	NA	NA	NA	NA	NA	<4.1	<4.5	<4.0	<4.0
Cadmium	mg/kg	NA	NA	0.52	<0.10	0.14 [0.11]	<0.10	NA	NA	NA	NA	NA	NA	NA	0.28	0.68	<0.10	<0.10
Chromium	mg/kg	NA	NA	9.25	6.96	7.93 [6.58]	2.04	NA	NA	NA	NA	NA	NA	NA	2.03	8.38	2.19	8.05
Cobalt	mg/kg	6.75	8.03 ^{abi}	8.91 ^{abi}	3.89	5.36 [4.75]	1.60	NA	NA	NA	NA	NA	NA	NA	15.9 ^{abi}	7.63 ^{abi}	1.53	4.46
Copper	mg/kg	NA	NA	8.69	5.77	12.6 [12.8]	4.74	NA	NA	NA	NA	NA	NA	NA	4.49	9.27	4.57	9.39
Lead	mg/kg	NA	NA	29.8 ⁱ	4.23	5.85 [5.32]	2.17	NA	NA	NA	NA	NA	NA	NA	6.18	11.7	2.10	4.34
Manganese	mg/kg	337	348	506 ^{abi}	258	297 [257]	122	NA	NA	NA	NA	NA	NA	NA	138	1,560 ^{abgi}	176	217
Mercury	mg/kg	NA	NA	0.0556	0.0111	0.0141 [0.0142]	0.0084	NA	NA	NA	NA	NA	NA	NA	0.0058	0.0906	0.0082	0.0134
Nickel	mg/kg	NA	NA	9.30	11.2	15.4 [13]	4.49	NA	NA	NA	NA	NA	NA	NA	6.52	15.9	4.01	11.9
Selenium	mg/kg	NA	NA	<0.21	<0.20	<0.21 [<0.21]	<0.20	NA	NA	NA	NA	NA	NA	NA	<0.20	<0.22	<0.20	<0.20
Silver	mg/kg	0.04	0.04	<0.10	<0.10	<0.10 [<0.1]	<0.10	NA	NA	NA	NA	NA	NA	NA	2.98 ^{bi}	<0.11	<0.10	<0.10
Thallium	mg/kg	NA	NA	<0.21	<0.20	<0.21 [<0.21]	<0.20	NA	NA	NA	NA	NA	NA	NA	<0.20	<0.22	<0.20	<0.20
Vanadium	mg/kg	NA	NA	10.8	9.42	10.9 [9.24]	3.91	NA	NA	NA	NA	NA	NA	NA	2.10	15.7	3.86	10.1
Zinc	mg/kg	NA	NA	55.8 ⁱ	14.0	23.4 [21]	10.8	NA	NA	NA	NA	NA	NA	NA	121 ⁱ	31.4	10.1	16.7
Miscellaneous																		
Total solids	%	89	88	85	89	88 [89]	86	87	89	86 [87]	89	90	98	88	74	85	89	

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A2-PF68 3 - 4 09/05/12	SB-A2-PF68 6 - 7 09/05/12	SB-A2-PF68 12.5 - 13.5 09/05/12	SB-A2-PF68 19 - 20 09/05/12	SB-A2-PF68 25 - 26 09/05/12	SB-A2-PF68 29 - 30 09/05/12	SB-A2-PF80 1 - 2 09/25/12	SB-A2-PF80 6 - 7 09/25/12	SB-A2-PF80 20 - 21 09/25/12	SB-A2-PF80 26 - 27 09/25/12	SB-A2-PH76 1.5 - 2.5 11/08/12	SB-A2-PH76 7 - 8 11/08/12	SB-A2-PH76 14 - 15 11/08/12	SB-A2-PH76 19 - 20 11/08/12	SB-A2-PH76 25 - 26 11/08/12	SB-A2-PH76 29 - 30 11/08/12	SB-A2-PM54 12.5 - 13.5 11/30/12
	Units																	
Volatile Organics																		
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
1,2-Dichlorobenzene	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
1,4-Dichlorobenzene	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
2-Hexanone	ug/kg	<750	<620	<660	<660	<650	<580	<710	<660	<680	<610	<540	<620 [<640]	<700	<610	<1,100	<620	<590
Acetone	ug/kg	<750	<620	<660	<660	<650	<580	<710	<660	<680	<610	<540	<620 [<640]	<700	<610	<1,100	<620	<590
Bromodichloromethane	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
Bromoform	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
Bromomethane (Methyl bromide)	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
Carbon disulfide	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
Carbon tetrachloride	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
Chlorobenzene	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
Chloroform (Trichloromethane)	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
Chloromethane (Methyl chloride)	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
cis-1,3-Dichloropropene	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
Dichlorodifluoromethane (CFC-12)	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
Methyl acetate	ug/kg	<750	<620	<660	<660	<650	<580	<710	<660	<680	<610	<540	<620 [<640]	<700	<610	<1,100	<620	<590
Methylene chloride	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
Styrene	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
trans-1,3-Dichloropropene	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
Trichlorofluoromethane (CFC-11)	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
Trifluorotrichloroethane (Freon 113)	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	<70	<60	<70	300	590	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
1,1,2,2-Tetrachloroethane	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
1,1,2-Trichloroethane	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
1,1-Dichloroethane	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
1,1-Dichloroethene	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
1,2-Dichloroethane	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
cis-1,2-Dichloroethene	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
trans-1,2-Dichloroethene	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
Trichloroethene	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
Tetrachloroethene	ug/kg	<70	<60	90	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
Vinyl chloride	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
Chloroethane	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
Benzene	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	1,690 ^a	<60	<100	<60	<60
Ethylbenzene	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
Toluene	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
o-Xylene	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
m&p-Xylene	ug/kg	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100 [<100]	<100	<100	<200	<100	<100
Xylene (total)	ug/kg	<170	<160	<170	<170	<170	<160	<170	<170	<170	<160	<150	<160 [<160]	<170	<160	<300	<160	<160
Methyl tert butyl ether (MTBE)	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<750	<620	<660	<660	<650	<580	<710	<660	<680	<610	<540	<620 [<640]	<700	<610	<1,100	<620	<590
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<750	<620	<660	<660	<650	<580	<710	<660	<680	<610	<540	<620 [<640]	<700	<610	<1,100	<620	<590
1,2,4-Trichlorobenzene	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
1,3-Dichlorobenzene	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
Cyclohexane	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
Methyl cyclohexane	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
Dibromochloromethane	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
Isopropyl benzene	ug/kg	<70	<60	<70	<70	<70	<60	<70	<70	<70	<60	<50	<60 [<60]	<70	<60	<100	<60	<60
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A2-PF68 3 - 4 09/05/12	SB-A2-PF68 6 - 7 09/05/12	SB-A2-PF68 12.5 - 13.5 09/05/12	SB-A2-PF68 19 - 20 09/05/12	SB-A2-PF68 25 - 26 09/05/12	SB-A2-PF68 29 - 30 09/05/12	SB-A2-PF80 1 - 2 09/25/12	SB-A2-PF80 6 - 7 09/25/12	SB-A2-PF80 20 - 21 09/25/12	SB-A2-PF80 26 - 27 09/25/12	SB-A2-PH76 1.5 - 2.5 11/08/12	SB-A2-PH76 7 - 8 11/08/12	SB-A2-PH76 14 - 15 11/08/12	SB-A2-PH76 19 - 20 11/08/12	SB-A2-PH76 25 - 26 11/08/12	SB-A2-PH76 29 - 30 11/08/12	SB-A2-PM54 12.5 - 13.5 11/30/12
	Units																	
Semivolatile Organics																		
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
2,4,6-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
2,4-Dichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100 J
2,4,5-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
2,4-Dimethylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
2,4-Dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	R
2,4-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
2,6-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
2-Chloronaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
2-Chlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
2-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
2-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
2-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
2-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100 J
3&4-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<200
3,3'-Dichlorobenzidine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
3-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
4-Bromophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
4-Chloro-3-methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
4-Chloroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
4-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
4-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Acenaphthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Acenaphthylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Acetophenone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100 J
Atrazine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Benzaldehyde	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Benzo(a)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Benzo(a)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Benzo(b)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Benzo(g,h,i)perylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Benzo(k)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Biphenyl (1,1-Biphenyl)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
bis(2-Chloroethoxy)methane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100 J
bis(2-Chloroethyl)ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100 J
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<200
Butyl benzylphthalate (BBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Caprolactam	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Chrysene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Dibenz(a,h)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<200
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Diethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<200
Dimethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Di-n-butylphthalate (DBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<200
Di-n-octyl phthalate (DnOP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<200
Fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Fluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Hexachlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Hexachlorobutadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Hexachlorocyclopentadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100 J
Hexachloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Indeno(1,2,3-cd)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Isophorone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Nitrobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100 J
N-Nitrosodi-n-propylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
N-Nitrosodiphenylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Pentachlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Phenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Phenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100
Pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A2-PF68	SB-A2-PF68	SB-A2-PF68	SB-A2-PF68	SB-A2-PF68	SB-A2-PF68	SB-A2-PF80	SB-A2-PF80	SB-A2-PF80	SB-A2-PF80	SB-A2-PF80	SB-A2-PH76	SB-A2-PH76	SB-A2-PH76	SB-A2-PH76	SB-A2-PH76	SB-A2-PM54
		3 - 4	6 - 7	12.5 - 13.5	19 - 20	25 - 26	29 - 30	1 - 2	6 - 7	20 - 21	26 - 27	1.5 - 2.5	7 - 8	14 - 15	19 - 20	25 - 26	29 - 30	12.5 - 13.5
		09/05/12	09/05/12	09/05/12	09/05/12	09/05/12	09/05/12	09/25/12	09/25/12	09/25/12	09/25/12	11/08/12	11/08/12	11/08/12	11/08/12	11/08/12	11/08/12	11/30/12
PCBs																		
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																		
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.20
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.54
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.2
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.0
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.91
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.95
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.99
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	119
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0053
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.90
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.02
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.47
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.9
Miscellaneous																		
Total solids	%	81	88	91	90	88	94	84	90	84	89	96	89 [89]	90	88	62	91	94

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A2-PM54 15 - 15.5 11/30/12	SB-A2-PQ53 7 - 8 11/30/12	SB-A2-PQ53 15 - 15.5 11/30/12	SB-A4-MX47 1 - 2 11/07/12	SB-A4-MX47 7 - 8 11/07/12	SB-A4-MX47 18 - 19 11/07/12	SB-A4-MX58 1 - 2 06/05/12	SB-A4-MX58 5 - 6 06/05/12	SB-A4-MX58 16 - 17 06/05/12	SB-A4-MX61 1 - 2 06/05/12	SB-A4-MX61 10 - 11 06/05/12	SB-A4-MX61 16 - 17 06/05/12	SB-A4-MY60 1 - 2 05/18/12	SB-A4-MY60 10 - 11 05/18/12	SB-A4-MY60 21 - 22 05/18/12	SB-A5.1-MB142 0 - 1 06/06/12
	Units																
Volatile Organics																	
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
1,2-Dichlorobenzene	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
1,4-Dichlorobenzene	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
2-Hexanone	ug/kg	<600	<610	<620	NA	NA	NA	<580	<700 [<770]	<980	<570	<1,400	<750	<750	<830	<830	<990
Acetone	ug/kg	<600	<610	<620	NA	NA	NA	<580	<700 [<770]	<980	<570	<1,400	<750	<1,900	<2,100	<2,100	<990
Bromodichloromethane	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
Bromoform	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
Bromomethane (Methyl bromide)	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	NA	NA	NA	<100
Carbon disulfide	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
Carbon tetrachloride	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
Chlorobenzene	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
Chloroform (Trichloromethane)	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
Chloromethane (Methyl chloride)	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<190	<210	<210	<100
cis-1,3-Dichloropropene	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
Dichlorodifluoromethane (CFC-12)	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	NA	NA	NA	<100
Methyl acetate	ug/kg	<600	<610	<620	NA	NA	NA	<580	<700 [<770]	<980	<570	<1,400	<750	NA	NA	NA	<990
Methylene chloride	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
Styrene	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
trans-1,3-Dichloropropene	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
Trichlorofluoromethane (CFC-11)	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	NA	NA	NA	<100
Trifluorotrichloroethane (Freon 113)	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	<6,000	<7,000 [<8,000]	<10,000	<6,000	<10,000	<7,000	<750	<830	<830	<10,000
1,1,1-Trichloroethane	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
1,1,2,2-Tetrachloroethane	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
1,1,2-Trichloroethane	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
1,1-Dichloroethane	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
1,1-Dichloroethene	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
1,2-Dichloroethane	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
cis-1,2-Dichloroethene	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
trans-1,2-Dichloroethene	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
Trichloroethene	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
Tetrachloroethene	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
Vinyl chloride	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
Chloroethane	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
Benzene	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
Ethylbenzene	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
Toluene	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
o-Xylene	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
m&p-Xylene	ug/kg	<100	<100	<100	NA	NA	NA	<100	<100 [<200]	<200	<100	<300	<100	<150	<170	<170	<200
Xylene (total)	ug/kg	<160	<160	<160	NA	NA	NA	<160	<170 [<280]	<300	<160	<400	<170	<225	<253	<253	<300
Methyl tert butyl ether (MTBE)	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<600	<610	<620	NA	NA	NA	<580	<700 [<770]	<980	<570	<1,400	<750	<750	<830	<830	<990
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<600	<610	<620	NA	NA	NA	<580	<700 [<770]	<980	<570	<1,400	<750	<750	<830	<830	<990
1,2,4-Trichlorobenzene	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<75	<83	<83	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<75	<83	<83	NA
1,2-Dichloropropane	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
1,3-Dichlorobenzene	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
Cyclohexane	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
Methyl cyclohexane	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
Dibromochloromethane	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
Isopropyl benzene	ug/kg	<60	<60	<60	NA	NA	NA	<60	<70 [<80]	<100	<60	<100	<70	<75	<83	<83	<100
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<75	<83	<83	NA

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A2-PM54 15 - 15.5 11/30/12	SB-A2-PQ53 7 - 8 11/30/12	SB-A2-PQ53 15 - 15.5 11/30/12	SB-A4-MX47 1 - 2 11/07/12	SB-A4-MX47 7 - 8 11/07/12	SB-A4-MX47 18 - 19 11/07/12	SB-A4-MX58 1 - 2 06/05/12	SB-A4-MX58 5 - 6 06/05/12	SB-A4-MX58 16 - 17 06/05/12	SB-A4-MX61 1 - 2 06/05/12	SB-A4-MX61 10 - 11 06/05/12	SB-A4-MX61 16 - 17 06/05/12	SB-A4-MY60 1 - 2 05/18/12	SB-A4-MY60 10 - 11 05/18/12	SB-A4-MY60 21 - 22 05/18/12	SB-A5.1-MB142 0 - 1 06/06/12
	Units																
Semivolatile Organics																	
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
2,4,6-Trichlorophenol	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
2,4-Dichlorophenol	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
2,4,5-Trichlorophenol	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
2,4-Dimethylphenol	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
2,4-Dinitrophenol	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
2,4-Dinitrotoluene	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
2,6-Dinitrotoluene	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
2-Chloronaphthalene	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
2-Chlorophenol	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
2-Methylnaphthalene	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
2-Methylphenol	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
2-Nitroaniline	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
2-Nitrophenol	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
3&4-Methylphenol	ug/kg	<200	<200	<200	NA	NA	NA	<100	<80 [<80]	<90	<300	<500	<80	<70	<500	<80	<300
3,3'-Dichlorobenzidine	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200 J
Naphthalene	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
3-Nitroaniline	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
4-Bromophenyl phenyl ether	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
4-Chloro-3-methylphenol	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
4-Chloroaniline	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
4-Chlorophenyl phenyl ether	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
4-Nitroaniline	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
4-Nitrophenol	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
Anthracene	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	200
Acenaphthene	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
Acenaphthylene	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
Acetophenone	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
Atrazine	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
Benzaldehyde	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
Benzo(a)anthracene	ug/kg	<100	200	200	NA	NA	NA	<70	<40 [<40]	<40	<100	1,400	<40	<40	<300	<40	800 J
Benzo(a)pyrene	ug/kg	<100	200	200	NA	NA	NA	<70	<40 [<40]	<40	<100	1,200	<40	<40	<300	<40	800 J
Benzo(b)fluoranthene	ug/kg	<100	200	200	NA	NA	NA	<70	<40 [<40]	<40	<100	2,700 J	<40	<40	<300	<40	1,100 J
Benzo(g,h,i)perylene	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	600	<40	<40	<300	<40	500 J
Benzo(k)fluoranthene	ug/kg	<100	200	200	NA	NA	NA	<70	<40 [<40]	<40	<100	2,800 J	<40	<40	<300	<40	900 J
Biphenyl (1,1-Biphenyl)	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
bis(2-Chloroethoxy)methane	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
bis(2-Chloroethyl)ether	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<200	<200	<200	NA	NA	NA	<100	<80 [<80]	<90	900	<500	<80	<70	<500	<80	<300 J
Butyl benzylphthalate (BBP)	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	300 J
Caprolactam	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
Carbazole	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
Chrysene	ug/kg	<100	300	300	NA	NA	NA	<70	<40 [<40]	<40	500	1,500	<40	<40	<300	<40	800 J
Dibenz(a,h)anthracene	ug/kg	<200	<200	<200	NA	NA	NA	<100	<80 [<80]	<90	<300	<500	<80	<70	<500	<80	R
Dibenzofuran	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
Diethyl phthalate	ug/kg	<200	<200	<200	NA	NA	NA	<100	<80 [<80]	<90	1,000	<500	<80	<70	<500	<80	<300
Dimethyl phthalate	ug/kg	<100	<100	<100	NA	NA	NA	<150 B	<280 B [<170 B]	<140 B	<100	<200	<80 B	<40	<300	<110 B	<200
Di-n-butylphthalate (DBP)	ug/kg	<200	<200	<200	NA	NA	NA	<100	<80 [<80]	<90	<300	500 B	<80	<70	<500	<80	<300
Di-n-octyl phthalate (DnOP)	ug/kg	<200	<200	<200	NA	NA	NA	<100	<80 [<80]	<90	<300	<500	<80	<70	<500	<80	R
Fluoranthene	ug/kg	<100	500	400	NA	NA	NA	<70	<40 [<40]	<40	<100	2,400	<40	<40	<300	<40	1,300
Fluorene	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
Hexachlorobenzene	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
Hexachlorobutadiene	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
Hexachlorocyclopentadiene	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
Hexachloroethane	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
Indeno(1,2,3-cd)pyrene	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	700	<40	<40	<300	<40	300 J
Isophorone	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
Nitrobenzene	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
N-Nitrosodi-n-propylamine	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
N-Nitrosodiphenylamine	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
Pentachlorophenol	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
Phenanthrene	ug/kg	<100	300	200	NA	NA	NA	<70	<40 [<40]	<40	<100	300	<40	<40	<300	<40	900
Phenol	ug/kg	<100	<100	<100	NA	NA	NA	<70	<40 [<40]	<40	<100	<200	<40	<40	<300	<40	<200
Pyrene	ug/kg	<100	400	300	NA	NA	NA	&									

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A2-PM54	SB-A2-PQ53	SB-A2-PQ53	SB-A4-MX47	SB-A4-MX47	SB-A4-MX47	SB-A4-MX58	SB-A4-MX58	SB-A4-MX58	SB-A4-MX61	SB-A4-MX61	SB-A4-MX61	SB-A4-MY60	SB-A4-MY60	SB-A4-MY60	SB-A5.1-MB142
		15 - 15.5	7 - 8	15 - 15.5	1 - 2	7 - 8	18 - 19	1 - 2	5 - 6	16 - 17	1 - 2	10 - 11	16 - 17	1 - 2	10 - 11	21 - 22	0 - 1
		11/30/12	11/30/12	11/30/12	11/07/12	11/07/12	11/07/12	06/05/12	06/05/12	06/05/12	06/05/12	06/05/12	06/05/12	06/05/12	05/18/12	05/18/12	05/18/12
PCBs																	
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																	
Antimony	mg/kg	<0.20	<0.19	<0.20	NA	NA	NA	<0.20	<0.20 [<0.2]	<0.21	<0.20	0.33	<0.22	<0.20	0.27	<0.20	0.22
Arsenic	mg/kg	1.94	1.55	0.94	NA	NA	NA	0.49	0.55 [0.64]	1.90	0.60	5.10	2.04	0.60	3.98	2.37	3.57
Barium	mg/kg	24.3	32.7	15.4	NA	NA	NA	5.10	13.4 [11.5]	51.8	9.06	195 ⁱ	35.9	8.15	93.6 ⁱ	7.97	53.0
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	<0.20	<0.20 [<0.2]	0.33	<0.20	0.92	0.30	<0.20	0.73	<0.20	0.30
Boron	mg/kg	<4.0	<3.9	<3.9	NA	NA	NA	<4.0	<4.0 [<4]	<4.2	<4.0	10.5 ^a	<4.4	<4.0	<4.2	<4.1	<4.2
Cadmium	mg/kg	<0.10	0.14	<0.10	0.19 [0.42]	0.24	<0.11	0.12	<0.10 [<0.1]	0.17	<0.10	2.28 ⁱ	0.19	<0.10	4.90 ⁱ	<0.10	0.74
Chromium	mg/kg	3.94	4.02	2.27	NA	NA	NA	1.88	2.51 [2.27]	7.58	2.31	15.2	8.32	1.17	10.6	2.74	11.0
Cobalt	mg/kg	2.65	2.94	1.70	4.98 [3.43]	5.89	3.56	7.58 ^{abi}	1.95 [1.73]	5.28	18.4 ^{abi}	4.77	6.05	2.14	5.05	2.35	2.16
Copper	mg/kg	7.70	8.65	4.68	15.0 [15.7]	20.2	9.63	5.71	3.58 [3.52]	17.5	2.43	78.6 ⁱ	17.7	1.47	79.9 ⁱ	5.76	20.0
Lead	mg/kg	3.75	7.93	3.59	NA	NA	NA	4.19	3.39 [2.69]	8.15	2.24	211 ⁱ	7.96	1.88	208 ⁱ	2.80	65.3 ⁱ
Manganese	mg/kg	199	193	243	402 [144]	164	249	102	109 [123]	357	124	133	361	110	190	205	191
Mercury	mg/kg	0.0082	0.0124	0.0264	NA	NA	NA	0.0057	0.0144 [0.0114]	0.0191	0.0083	0.1139	0.0181	0.0091	0.0344	0.0149	0.0589
Nickel	mg/kg	6.43	6.17	3.89	NA	NA	NA	3.60	4.82 [4.21]	16.0	4.15	27.4 ⁱ	18.3	2.52	34.9 ⁱ	8.40	6.01
Selenium	mg/kg	<0.10	<0.10	<0.10	<0.11 [0.15]	0.87 ^{bi}	0.13	<0.20	<0.20 [<0.2]	<0.21	<0.20	2.52 ^{bi}	0.23	<0.20	1.55 ^{bi}	<0.20	0.39
Silver	mg/kg	0.02	<0.02	<0.02	NA	NA	NA	0.88	<0.10 [<0.1]	<0.10	2.25 ^{bi}	0.13	<0.11	<0.10	0.14	<0.10	<0.10
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	<0.20	<0.20 [<0.2]	<0.21	<0.20	<0.21	<0.22	<0.20	<0.21	<0.20	<0.21
Vanadium	mg/kg	5.73	6.16	4.02	NA	NA	NA	2.29	4.06 [3.73]	12.7	2.74	56.6	13.3	2.04	39.9	4.05	6.60
Zinc	mg/kg	12.2	19.7	9.4	26.7 [64.9]	45.2	18.7	7.28	7.99 [7.02]	29.3	5.23	245 ⁱ	31.5	2.44	336 ^{bi}	6.48	62.2 ⁱ
Miscellaneous																	
Total solids	%	91	90	89	88 [90]	53	89	94	82 [84]	78	94	59	79	94	65	88	86

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.1-MB142 7 - 8 06/06/12	SB-A5.1-MB142 16 - 17 06/06/12	SB-A5.1-MC123 1 - 2 06/05/12	SB-A5.1-MC123 6 - 7 06/05/12	SB-A5.1-MC123 16 - 17 06/05/12	SB-A5.1-ME138 1 - 2 06/06/12	SB-A5.1-ME138 5 - 6 06/06/12	SB-A5.1-ME138 15 - 16 06/06/12	SB-A5.1-ME145 1 - 2 06/06/12	SB-A5.1-ME145 5 - 6 06/06/12	SB-A5.1-ME145 9 - 10 06/06/12	SB-A5.1-ME145 16 - 17 06/06/12	SB-A5.1-MG123 1 - 2 06/05/12	SB-A5.1-MG123 10 - 11 06/05/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60	<60 [<70]	<80	<60	<70
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60	<60 [<70]	<80	<60	<70
1,2-Dichlorobenzene	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60	<60 [<70]	<80	<60	<70
1,4-Dichlorobenzene	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60	<60 [<70]	<80	<60	<70
2-Hexanone	ug/kg	<660	<810	<890	<700 [<630]	<640	<600	<700	<610	<580	<620 [<650]	<790	<640	<670	<710
Acetone	ug/kg	<660	<810	<890	<700 [<630]	<640	710	<700	<610	<580	<620 [<650]	<790	<640	<670	<710
Bromodichloromethane	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
Bromoform	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
Bromomethane (Methyl bromide)	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
Carbon disulfide	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
Carbon tetrachloride	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
Chlorobenzene	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
Chloroform (Trichloromethane)	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
Chloromethane (Methyl chloride)	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
cis-1,3-Dichloropropene	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
Dichlorodifluoromethane (CFC-12)	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
Methyl acetate	ug/kg	<660	<810	<890	<700 [<630]	<640	<600	<700	<610	<580	<620 [<650]	<790	<640	<670	<710
Methylene chloride	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
Styrene	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
trans-1,3-Dichloropropene	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
Trichlorofluoromethane (CFC-11)	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	120	<60 [<70]	<80	<60	<70	<70
Trifluorotrichloroethane (Freon 113)	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
1,4-Dioxane	ug/kg	<7,000	<8,000	<9,000	<7,000 [<6,000]	<6,000	<6,000	<7,000	<6,000	<6,000	<6,000 [<7,000]	<8,000	<6,000	<7,000	<7,000
1,1,1-Trichloroethane	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
1,1,2,2-Tetrachloroethane	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
1,1,2-Trichloroethane	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
1,1-Dichloroethane	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
1,1-Dichloroethene	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
1,2-Dichloroethane	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
cis-1,2-Dichloroethene	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
trans-1,2-Dichloroethene	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
Trichloroethene	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
Tetrachloroethene	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
Vinyl chloride	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
Chloroethane	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
Benzene	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
Ethylbenzene	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
Toluene	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
o-Xylene	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
m&p-Xylene	ug/kg	<100	<200	<200	<100 [<100]	<100	<100	<100	<100	<100	<100 [<100]	<200	<100	<100	<100
Xylene (total)	ug/kg	<170	<280	<290	<170 [<160]	<160	<160	<170	<160	<160	<160 [<170]	<280	<160	<170	<170
Methyl tert butyl ether (MTBE)	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<660	<810	<890	<700 [<630]	<640	<600	<700	<610	<580	<620 [<650]	<790	<640	<670	<710
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<660	<810	<890	<700 [<630]	<640	<600	<700	<610	<580	<620 [<650]	<790	<640	<670	<710
1,2,4-Trichlorobenzene	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
1,3-Dichlorobenzene	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
Cyclohexane	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
Methyl cyclohexane	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
Dibromochloromethane	ug/kg	<70	<80	<90	<70 [<60]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
Isopropyl benzene	ug/kg	<70	<80	<540	<70 [<80]	<60	<60	<70	<60	<60	<60 [<70]	<80	<60	<70	<70
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 12
RFI Phase 2 Summary Report
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Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.1-MB142 7 - 8 06/06/12	SB-A5.1-MB142 16 - 17 06/06/12	SB-A5.1-MC123 1 - 2 06/05/12	SB-A5.1-MC123 6 - 7 06/05/12	SB-A5.1-MC123 16 - 17 06/05/12	SB-A5.1-ME138 1 - 2 06/06/12	SB-A5.1-ME138 5 - 6 06/06/12	SB-A5.1-ME138 15 - 16 06/06/12	SB-A5.1-ME145 1 - 2 06/06/12	SB-A5.1-ME145 5 - 6 06/06/12	SB-A5.1-ME145 9 - 10 06/06/12	SB-A5.1-ME145 16 - 17 06/06/12	SB-A5.1-MG123 1 - 2 06/05/12	SB-A5.1-MG123 10 - 11 06/05/12
	Units														
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	R	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	R	<40
2,4-Dichlorophenol	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	R	<40
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	R	<40
2,4-Dimethylphenol	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	R	<40
2,4-Dinitrophenol	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	R	<40
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
2-Chloronaphthalene	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
2-Chlorophenol	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	R	<40
2-Methylnaphthalene	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
2-Methylphenol	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	R	<40
2-Nitroaniline	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
2-Nitrophenol	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	R	<40
3&4-Methylphenol	ug/kg	<80	<80	<90	<100 [<70]	<80	<70	<80	<70	<70	<400 [<200]	<70	<70	R	<80
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<70 [<40]	<40	<40 J	<40	<40	<40 J	<40	<40	<40	<30	<40
Naphthalene	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
3-Nitroaniline	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	R	<40
4-Chloroaniline	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30 J	<40
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
4-Nitroaniline	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
4-Nitrophenol	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	R	<40
Anthracene	ug/kg	<40	<40	50	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	50 S	<40
Acenaphthene	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
Acenaphthylene	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
Acetophenone	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
Atrazine	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
Benzaldehyde	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
Benzo(a)anthracene	ug/kg	<40	<40	240 J	<70 [<40]	<40	40 J	<40	<40	<40 J	<200 [90]	<40	<40	220 J	<40
Benzo(a)pyrene	ug/kg	<40	<40	270 J	<70 [<40]	<40	40 J	<40	<40	R	<200 [<80]	<40	<40	220	<40
Benzo(b)fluoranthene	ug/kg	<40	<40	560 J	<70 [<40]	<40	<40 J	<40	<40	R	<200 [130 J]	<40	<40	410 J	<40
Benzo(g,h,i)perylene	ug/kg	<40	<40	160 J	<70 [<40]	<40	90 J	<40	<40	80 J	<200 [<80]	<40	<40	130 J	<40
Benzo(k)fluoranthene	ug/kg	<40	<40	580 J	<70 [<40]	<40	R	<40	<40	R	<200 [130 J]	<40	<40	420 J	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<80	<80	<90	<100 [<70]	<80	<70 J	<80	<70	<70 J	<400 [<200]	<70	<70	<70	<80
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	50	<70 [<40]	<40	<40 J	<40	<40	<40 J	<200 [<80]	<40	<40	<30	<40
Caprolactam	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
Carbazole	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	40 S	<40
Chrysene	ug/kg	<40	<40	260	<70 [<40]	<40	40 J	<40	<40	<40 J	<200 [90]	<40	<40	230	<40
Dibenz(a,h)anthracene	ug/kg	<80	<80	90 J	<100 [<70]	<80	R	<80	<70	R	<400 [<200]	<70	<70	80 J	<80
Dibenzofuran	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
Diethyl phthalate	ug/kg	<80	<80	<90	<100 [<70]	<80	<70	<80	<70	<70	<400 [<200]	<70	<70	<70	<80
Dimethyl phthalate	ug/kg	<40	<60 B	<200 B	<110 B [<90 B]	<80 B	<70 B	<70 B	<40 B	<50 B	<200 [<80]	<60 B	<110 B	<240 B	<150 B
Di-n-butylphthalate (DBP)	ug/kg	<80	<80	<90	<100 [<70]	<80	<70	<80	<70	<70	<400 [<200]	<70	<70	<70	<80
Di-n-octyl phthalate (DnOP)	ug/kg	<80	<80	<90 J	<100 [<70]	<80	R	<80	<70	R	<400 [<200]	<70	<70	<70	<80
Fluoranthene	ug/kg	<40	<40	470	<70 [<40]	<40	50	<40	<40	50	<200 [170]	<40	<40	400 S	<40
Fluorene	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
Hexachlorobenzene	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
Hexachlorobutadiene	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
Hexachlorocyclopentadiene	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
Hexachloroethane	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	140 J	<70 [<40]	<40	R	<40	<40	R	<40	<40	<40	130 J	<40
Isophorone	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
Nitrobenzene	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
N-Nitrosodiphenylamine	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40
Pentachlorophenol	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	R	<40
Phenanthrene	ug/kg	<40	<40	230	<70 [<40]	<40	40	<40	<40	<40	<200 [150]	<40	<40	190 S	<40
Phenol	ug/kg	<40	<40	<40	<70 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	R	<40
Pyrene	ug/kg	<40	<40	510	<70 [<40]	<40	120 J	<40	<40	100 J	<200 [140]	<40	<40	360	<40

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.1-MB142 7 - 8 06/06/12	SB-A5.1-MB142 16 - 17 06/06/12	SB-A5.1-MC123 1 - 2 06/05/12	SB-A5.1-MC123 6 - 7 06/05/12	SB-A5.1-MC123 16 - 17 06/05/12	SB-A5.1-ME138 1 - 2 06/06/12	SB-A5.1-ME138 5 - 6 06/06/12	SB-A5.1-ME138 15 - 16 06/06/12	SB-A5.1-ME145 1 - 2 06/06/12	SB-A5.1-ME145 5 - 6 06/06/12	SB-A5.1-ME145 9 - 10 06/06/12	SB-A5.1-ME145 16 - 17 06/06/12	SB-A5.1-MG123 1 - 2 06/05/12	SB-A5.1-MG123 10 - 11 06/05/12
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	<0.21	<0.21	<0.22	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.21
Arsenic	mg/kg	1.04	3.11	2.40	1.22 [1.04]	1.39	2.07	0.89	2.90	1.05	0.63 [0.43]	1.56	2.59	1.11	0.33
Barium	mg/kg	42.8	29.6	64.9	19.2 [15.7]	35.2	20.6	53.2	26.9	20.5	61.5 [61.3]	26.9	35.4	13.8	46.0
Beryllium	mg/kg	<0.21	<0.21	<0.22	<0.20 [<0.2]	<0.20	<0.20	0.39	<0.20	<0.20	0.54 [0.4]	<0.20	<0.20	<0.20	0.28
Boron	mg/kg	<4.2	<4.3	<4.4	<4.0 [<4]	<4.1	<4.0	<4.0	<4.1	<4.0	<4.0 [<4.1]	<4.0	<4.0	<4.0	<4.2
Cadmium	mg/kg	0.21	<0.10	0.40	0.36 [0.14]	<0.10	0.17	<0.10	0.11	0.11	0.16 [<0.1]	0.10	<0.10	<0.10	0.22
Chromium	mg/kg	2.60	3.04	9.63	3.40 [2.83]	4.78	4.31	7.76	4.81	2.84	7.05 [6.77]	7.21	5.62	6.88	8.85
Cobalt	mg/kg	1.58	3.05	2.35	2.32 [2.12]	3.69	3.05	5.21	3.08	2.30	5.77 [5.11]	3.06	3.89	2.15	4.49
Copper	mg/kg	15.8	8.96	19.1	13.2 [7.73]	10.6	8.74	8.44	7.37	5.52	12.0 [7.43]	9.79	9.48	3.79	13.1
Lead	mg/kg	8.98	4.77	43.0 [†]	17.8 [9.55]	4.49	7.32	6.27	3.65	6.15	7.59 [6.57]	4.86	4.33	3.22	6.10
Manganese	mg/kg	146	238	215	275 [216]	233	256	152	218	269	55.9 [57.4]	242	253	152	248
Mercury	mg/kg	0.0166	0.0126	0.0301	0.0166 [0.0129]	0.0104	0.0106	0.0428	0.0078	0.0155	0.0254 [0.0124]	0.0129	0.0089	0.0060	0.0111
Nickel	mg/kg	3.88	9.16	10.2	9.59 [7.2]	10.8	6.83	9.89	9.43	6.17	9.81 [8.85]	10.8	11.1	10.6	16.4
Selenium	mg/kg	<0.21	<0.21	<0.22	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.21
Silver	mg/kg	<0.10	<0.10	<0.11	<0.10 [<0.1]	<0.10	0.12	<0.10	<0.10	<0.10	<0.10 [<0.1]	<0.10	<0.10	<0.10	<0.10
Thallium	mg/kg	<0.21	<0.21	<0.22	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.21
Vanadium	mg/kg	6.20	4.87	5.91	4.64 [3.79]	7.26	4.75	14.6	6.87	3.95	20.8 [12]	9.01	7.88	4.14	8.51
Zinc	mg/kg	17.9	14.0	61.0 [†]	25.1 [11.5]	16.1	20.8	17.5	15.8	11.8	21.6 [20.2]	17.8	19.5	8.88	24.6
Miscellaneous															
Total solids	%	86	86	77	94 [94]	88	92	86	91	92	88 [86]	90	89	96	83

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.1-MG123 20 - 21 06/05/12	SB-A5.1-MH142 1 - 2 06/06/12	SB-A5.1-MH142 9 - 10 06/06/12	SB-A5.1-MH142 16 - 17 06/06/12	SB-A5.1-MI119 1 - 2 06/05/12	SB-A5.1-MI119 15 - 16 06/05/12	SB-A5.1-MI125 1 - 2 06/05/12	SB-A5.1-MI125 11 - 12 06/05/12	SB-A5.1-MI125 16 - 17 06/05/12	SB-A5.1-MT119 1 - 2 06/06/12	SB-A5.1-MT119 5 - 6 06/06/12	SB-A5.1-MT119 20 - 21 06/06/12	SB-A5.1-MT126 1 - 2 06/06/12	SB-A5.1-MT126 5.5 - 6.5 06/06/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
1,2-Dichlorobenzene	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
1,4-Dichlorobenzene	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
2-Hexanone	ug/kg	<620	<940	<650	<730	<580	<670	<610	<840	<630	<560	<780	<630	<800	<740 [<820]
Acetone	ug/kg	<620	<940	<650	<730	<580	<670	<610	<840	<630	<560	<780	<630	<800	<740 [<820]
Bromodichloromethane	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
Bromoform	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
Bromomethane (Methyl bromide)	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
Carbon disulfide	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
Carbon tetrachloride	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
Chlorobenzene	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
Chloroform (Trichloromethane)	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
Chloromethane (Methyl chloride)	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
cis-1,3-Dichloropropene	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
Dichlorodifluoromethane (CFC-12)	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
Methyl acetate	ug/kg	<620	<940	<650	<730	<580	<670	<610	<840	<630	820	<780	<630	<800	<740 [<820]
Methylene chloride	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
Styrene	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
trans-1,3-Dichloropropene	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
Trichlorofluoromethane (CFC-11)	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
Trifluorotrichloroethane (Freon 113)	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
1,4-Dioxane	ug/kg	<6,000	<9,000	<7,000	<7,000	<6,000	<7,000	<6,000	<8,000	<6,000	<6,000	<8,000	<6,000	<8,000	<7,000 [<8,000]
1,1,1-Trichloroethane	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
1,1,2,2-Tetrachloroethane	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
1,1,2-Trichloroethane	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
1,1-Dichloroethane	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	80 [<80]
1,1-Dichloroethene	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
1,2-Dichloroethane	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
cis-1,2-Dichloroethene	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
trans-1,2-Dichloroethene	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
Trichloroethene	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
Tetrachloroethene	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
Vinyl chloride	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
Chloroethane	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
Benzene	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
Ethylbenzene	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
Toluene	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
o-Xylene	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
m&p-Xylene	ug/kg	<100	<200	<100	<100	<100	<100	<100	<200	<100	<100	<200	<100	<200	<100 [<200]
Xylene (total)	ug/kg	<160	<290	<170	<170	<160	<170	<160	<280	<160	<160	<280	<160	<280	<170 [<280]
Methyl tert butyl ether (MTBE)	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<620	<940	<650	<730	<580	<670	<610	<840	<630	<560	<780	<630	<800	<740 [<820]
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<620	<940	<650	<730	<580	<670	<610	<840	<630	<560	<780	<630	<800	<740 [<820]
1,2,4-Trichlorobenzene	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
1,3-Dichlorobenzene	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
Cyclohexane	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
Methyl cyclohexane	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
Dibromochloromethane	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
Isopropyl benzene	ug/kg	<60	<90	<70	<70	<60	<70	<60	<80	<60	<60	<80	<60	<80	<70 [<80]
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.1-MG123 20 - 21 06/05/12	SB-A5.1-MH142 1 - 2 06/06/12	SB-A5.1-MH142 9 - 10 06/06/12	SB-A5.1-MH142 16 - 17 06/06/12	SB-A5.1-MI119 1 - 2 06/05/12	SB-A5.1-MI119 15 - 16 06/05/12	SB-A5.1-MI125 1 - 2 06/05/12	SB-A5.1-MI125 11 - 12 06/05/12	SB-A5.1-MI125 16 - 17 06/05/12	SB-A5.1-MT119 1 - 2 06/06/12	SB-A5.1-MT119 5 - 6 06/06/12	SB-A5.1-MT119 20 - 21 06/06/12	SB-A5.1-MT126 1 - 2 06/06/12	SB-A5.1-MT126 5.5 - 6.5 06/06/12
	Units														
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40 J	<70	<70	<40	<40	<600 [<100]
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
2,4,6-Trichlorophenol	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
2,4-Dichlorophenol	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
2,4,5-Trichlorophenol	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
2,4-Dimethylphenol	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
2,4-Dinitrophenol	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40 J	<70	<70	<40	<40	<600 [<100]
2,4-Dinitrotoluene	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
2,6-Dinitrotoluene	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40 J	<70	<70	<40	<40	<600 [<100]
2-Chloronaphthalene	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
2-Chlorophenol	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
2-Methylnaphthalene	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
2-Methylphenol	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
2-Nitroaniline	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
2-Nitrophenol	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
3&4-Methylphenol	ug/kg	<80	<100	<70	<70	<200	<80	<70	<80	<80	<100	<100	<80	<70	<1,000 [<300]
3,3'-Dichlorobenzidine	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
Naphthalene	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	900 J [<100 J] ^b
3-Nitroaniline	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
4-Bromophenyl phenyl ether	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
4-Chloro-3-methylphenol	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
4-Chloroaniline	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
4-Chlorophenyl phenyl ether	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
4-Nitroaniline	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
4-Nitrophenol	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40 J	<70	<70	<40	<40	<600 [<100]
Anthracene	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	3,000 J [<100 J]
Acenaphthene	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	1,600 J [<100 J]
Acenaphthylene	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
Acetophenone	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
Atrazine	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
Benzaldehyde	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
Benzo(a)anthracene	ug/kg	<40	<70	<40	<40	<100	<40	100 J	50 J	<40	<70	420	<40	<40	50,700 J [1,500 J]
Benzo(a)pyrene	ug/kg	<40	<70	<40	<40	<100 J	<40	100	<40	<40	<70	470	<40	<40	60,000 J [1,700 J] ^f
Benzo(b)fluoranthene	ug/kg	<40	<70	<40	<40	<100 J	<40	210 J	<40	<40	<70	880 J	<40	<40	118,600 J [3,400 J] ^f
Benzo(g,h,i)perylene	ug/kg	<40	<70	<40	<40	<100 J	<40	90 J	<40	<40	<70	210 J	<40	<40	25,300 J [700 J]
Benzo(k)fluoranthene	ug/kg	<40	<70	<40	<40	<100 J	<40	220 J	<40	<40	<70	870 J	<40	<40	121,900 J [3,400 J]
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
bis(2-Chloroethoxy)methane	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
bis(2-Chloroethyl)ether	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<80	<100	<70	<70	<200	<80	<70	<80	<80	<100	<100	<80	<70	<1,000 [<300]
Butyl benzylphthalate (BBP)	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
Caprolactam	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
Carbazole	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	4,400 J [200 J] ^b
Chrysene	ug/kg	<40	<70	<40	<40	<100	<40	120	50	<40	<70	510	<40	<40	58,800 J [1,900 J]
Dibenz(a,h)anthracene	ug/kg	<80	<100	<70	<70	<200 J	<80	<70	<80	<80	<100	<100	<80	<70	12,000 J [300 J] ^f
Dibenzofuran	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
Diethyl phthalate	ug/kg	<80	<100	<70	<70	<200	<80	<70	<80	<80	<100	<100	<80	<70	<1,000 [<300]
Dimethyl phthalate	ug/kg	<100 B	<100 B	<60 B	<40 B	<300 B	<130 B	<450 B	<120 B	<190 B	<100 B	<120 B	<70 B	<70 B	<600 [<100]
Di-n-butylphthalate (DBP)	ug/kg	<80	<100	<70	<70	<200	<80	<70	<80	<80	<100	<100	<80	<70	<1,000 [<300]
Di-n-octyl phthalate (DnOP)	ug/kg	<80	<100	<70	<70	<200 J	<80	<70	<80	<80	<100	<100	<80	<70	<1,000 [<300]
Fluoranthene	ug/kg	<40	<70	<40	<40	<100	<40	210	150	<40	<70	620	<40	<40	67,600 J [2,100 J] ^b
Fluorene	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	1,200 J [<100 J]
Hexachlorobenzene	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
Hexachlorobutadiene	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
Hexachlorocyclopentadiene	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
Hexachloroethane	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<70	<40	<40	<100 J	<40	80 J	<40	<40	<70	190 J	<40	<40	25,900 J [700 J]
Isophorone	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
Nitrobenzene	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
N-Nitrosodi-n-propylamine	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
N-Nitrosodiphenylamine	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
Pentachlorophenol	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40 J	<70	<70	<40	<40	<600 [<100]
Phenanthrene	ug/kg	<40	<70	<40	<40	<100	<40	100	<40	<40	<70	240	<40	<40	16,800 J [800 J] ^b
Phenol	ug/kg	<40	<70	<40	<40	<100	<40	<40	<40	<40	<70	<70	<40	<40	<600 [<100]
Pyrene	ug/kg	<40	<70	<40	<40	<100	<40	180	110	<40	<70	580	<40	<40	64,200 J [1,900 J]

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A5.1-MG123	SB-A5.1-MH142	SB-A5.1-MH142	SB-A5.1-MH142	SB-A5.1-MI119	SB-A5.1-MI119	SB-A5.1-MI125	SB-A5.1-MI125	SB-A5.1-MI125	SB-A5.1-MI125	SB-A5.1-MT119	SB-A5.1-MT119	SB-A5.1-MT119	SB-A5.1-MT126	SB-A5.1-MT126
		20 - 21	1 - 2	9 - 10	16 - 17	1 - 2	15 - 16	1 - 2	11 - 12	16 - 17	1 - 2	5 - 6	20 - 21	1 - 2	5.5 - 6.5	
		06/05/12	06/06/12	06/06/12	06/06/12	06/05/12	06/05/12	06/05/12	06/05/12	06/05/12	06/06/12	06/06/12	06/06/12	06/06/12	06/06/12	
PCBs																
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																
Antimony	mg/kg	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20 [<0.2]
Arsenic	mg/kg	1.77	1.28	1.36	3.06	2.02	1.99	1.23	1.07	1.30	0.75	0.19	0.84	1.32	0.41	0.32]
Barium	mg/kg	37.8	15.6	27.9	40.6	35.5	30.9	25.6	37.2	43.9	20.0	7.17	33.2	19.4	17.8	22.9]
Beryllium	mg/kg	0.21	<0.20	0.20	0.21	<0.20	<0.20	<0.20	0.26	0.21	<0.20	<0.20	<0.21	<0.20	0.23	0.29]
Boron	mg/kg	<4.2	<4.0	<4.0	<4.0	<4.1 J	<4.0	<4.0	<4.1	<4.2	<4.0	<4.1	<4.2	<4.0	<4.0	<4.0 [<4]
Cadmium	mg/kg	<0.10	<0.10	<0.10	<0.10	0.15	<0.10	0.14	0.12	<0.10	0.16	<0.10	<0.10	<0.10	0.12	<0.1]
Chromium	mg/kg	5.85	2.72	6.46	6.75	10.8	4.80	35.3 ⁱ	4.66	5.15	3.44	0.43	3.72	1.39	2.45	2.55]
Cobalt	mg/kg	3.94	3.61	4.23	4.19	35.7 ^{abi}	3.47	8.87 ^{abi}	3.64	3.55	56.8 ^{abi}	0.41	2.39	5.18	1.84	2.08]
Copper	mg/kg	8.96	5.26	11.1	10.6	13.3	8.50	9.71	10.0	10.2	7.64	1.11	9.22	4.79	5.13	5.83]
Lead	mg/kg	4.41	4.63	4.78	4.93	10.9	4.47	137 ⁱ	7.67	4.80	7.66	6.92	3.99	6.63	14.9	14.3]
Manganese	mg/kg	257	128	277	254	212	233	181	144	246	86.1	67.3	241	212	153	74.3]
Mercury	mg/kg	0.0104	0.0072	0.0099	0.0089	0.0076	0.0167	0.0327	0.0211	0.0126	<0.0053	<0.0057	0.0090	0.0080	0.0067	<0.0055]
Nickel	mg/kg	13.1	5.60	11.2	12.3	11.7	11.7	7.44	9.23	11.7	3.55	0.91	8.26	4.78	3.25	3]
Selenium	mg/kg	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	0.22	<0.20	0.22	0.21]
Silver	mg/kg	<0.10	0.18	<0.10	<0.10	3.03 ^{bi}	<0.10	0.65	<0.10	<0.10	4.83 ^{abi}	<0.10	<0.10	0.35	<0.10	<0.1]
Thallium	mg/kg	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20 [<0.2]
Vanadium	mg/kg	8.56	3.86	8.96	9.07	5.39	7.13	5.67	7.50	7.35	1.69	0.92	4.30	2.06	6.70	6.33]
Zinc	mg/kg	14.7	10.4	20.7	17.8	22.1	13.5	18.6	18.6	15.2	18.1	1.77	11.3	7.28	9.16	10.7]
Miscellaneous																
Total solids	%	88	93	90	89	91	89	91	83	88	94	89	88	92	83	90]

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.1-MT126 16 - 17 06/06/12	SB-A5.2-NB110* 1 - 2 05/04/12	SB-A5.2-NB110* 6 - 7 05/04/12	SB-A5.2-NB110* 10 - 11 05/04/12	SB-A5.2-NB110* 15 - 16 05/04/12	SB-A5.2-NB110* 19 - 20 05/04/12	SB-A5.2-NB110* 24 - 25 05/04/12	SB-A5.2-NE150* 0 - 1 05/08/12	SB-A5.2-NE150* 5 - 6 05/08/12	SB-A5.2-NE150* 11 - 12 05/08/12	SB-A5.2-NE150* 20 - 21 05/09/12	SB-A5.2-NE150* 24 - 25 05/09/12	SB-A5.2-NE157* 1 - 2 05/09/12	SB-A5.2-NE157* 3 - 4 05/09/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
1,2-Dichlorobenzene	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
1,4-Dichlorobenzene	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
2-Hexanone	ug/kg	<700	<720	<800	<760	<740	<740	<730	<810	<790 [<730]	<750	<790	<720	<740 [<710]	<770
Acetone	ug/kg	<700	18,000 B ^a	<2,000	<1,900	<1,900	<1,900	<1,800	<2,000	<2,000 [3,300 B]	2,800 B	2,100 B	2,000 B	<1,900 [2,100 B]	<1,900
Bromodichloromethane	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
Bromoform	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
Bromomethane (Methyl bromide)	ug/kg	<70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
Carbon tetrachloride	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
Chlorobenzene	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
Chloroform (Trichloromethane)	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
Chloromethane (Methyl chloride)	ug/kg	<70	<180	<200	<190	<190	<190	<180	<200	<200 [<180]	<190	<200	<180	<190 [<180]	<190
cis-1,3-Dichloropropene	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
Dichlorodifluoromethane (CFC-12)	ug/kg	<70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	<700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
Styrene	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
trans-1,3-Dichloropropene	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
Trichlorofluoromethane (CFC-11)	ug/kg	<70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
1,4-Dioxane	ug/kg	<7,000	<720	<800	<760	<740	<740	<730	<810	<790 [<730]	<750	<790	<720	<740 [<710]	<770
1,1,1-Trichloroethane	ug/kg	<70	<72	190	160	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
1,1,2,2-Tetrachloroethane	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
1,1,2-Trichloroethane	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
1,1-Dichloroethane	ug/kg	<70	<72	230	240	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
1,1-Dichloroethene	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
1,2-Dichloroethane	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
cis-1,2-Dichloroethene	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
trans-1,2-Dichloroethene	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
Trichloroethene	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
Tetrachloroethene	ug/kg	<70	<72	34 J	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
Vinyl chloride	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
Chloroethane	ug/kg	<70	510 J	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
Benzene	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
Ethylbenzene	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
Toluene	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
o-Xylene	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	35 J
m&p-Xylene	ug/kg	<100	<140	<160	<150	<150	<150	<150	<160	<160 [<150]	<150	<160	<140	<150 [<140]	<150
Xylene (total)	ug/kg	<170	<212	<240	<226	<224	<224	<223	<241	<239 [<223]	<225	<239	<212	<224 [<211]	35 J
Methyl tert butyl ether (MTBE)	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<700	<720	<800	<760	<740	<740	<730	<810	<790 [<730]	<750	<790	<720	<740 [<710]	<770
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<700	<720	<800	<760	<740	<740	<730	<810	<790 [<730]	<750	<790	<720	<740 [<710]	<770
1,2,4-Trichlorobenzene	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
1,2,4-Trimethylbenzene	ug/kg	NA	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	95
1,3,5-Trimethylbenzene	ug/kg	NA	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	41 J
1,2-Dichloropropane	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
1,3-Dichlorobenzene	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
Cyclohexane	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
Methyl cyclohexane	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
Dibromochloromethane	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
Isopropyl benzene	ug/kg	<70	<72	<80	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	<74 [<71]	<77
Naphthalene	ug/kg	NA	<72	31 J	<76	<74	<74	<73	<81	<79 [<73]	<75	<79	<72	560 [470]	4,000 E ^o

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.1-MT126 16 - 17 06/06/12	SB-A5.2-NB110* 1 - 2 05/04/12	SB-A5.2-NB110* 6 - 7 05/04/12	SB-A5.2-NB110* 10 - 11 05/04/12	SB-A5.2-NB110* 15 - 16 05/04/12	SB-A5.2-NB110* 19 - 20 05/04/12	SB-A5.2-NB110* 24 - 25 05/04/12	SB-A5.2-NB110* 0 - 1 05/08/12	SB-A5.2-NE150* 5 - 6 05/08/12	SB-A5.2-NE150* 11 - 12 05/08/12	SB-A5.2-NE150* 20 - 21 05/09/12	SB-A5.2-NE150* 24 - 25 05/09/12	SB-A5.2-NE157* 1 - 2 05/09/12	SB-A5.2-NE157* 3 - 4 05/09/12
	Units														
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70 J	<40 J [<40 J]	<40 J	<40 J	<40 J	<300 J [<100 J]	<2,000 J
2,4,6-Trichlorophenol	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
2,4-Dichlorophenol	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70 J	<40 J [<40 J]	<40 J	<40 J	<40 J	<300 J [<100 J]	<2,000 J
2,4,5-Trichlorophenol	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
2,4-Dimethylphenol	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70 J	<40 J [<40 J]	<40 J	<40 J	<40 J	<300 J [<100 J]	<2,000 J
2,4-Dinitrophenol	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
2,4-Dinitrotoluene	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
2,6-Dinitrotoluene	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
2-Chloronaphthalene	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
2-Chlorophenol	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
2-Methylnaphthalene	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [[200]]	19,000 J ^b
2-Methylphenol	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
2-Nitroaniline	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
2-Nitrophenol	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70 J	<40 J [<40 J]	<40 J	<40 J	<40 J	<300 J [<100 J]	<2,000 J
3&4-Methylphenol	ug/kg	<70	<70	<1,000 J	<300	<80	<70	<70	<100	<70 [<80]	<70	<70	<70	<500 [<300]	<3,000 J
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
Naphthalene	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	700 [[500]]	39,000 J ^{ab}
3-Nitroaniline	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
4-Chloro-3-methylphenol	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
4-Chloroaniline	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
4-Nitroaniline	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
4-Nitrophenol	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
Anthracene	ug/kg	<40	<40	1,200 J	300	<40	<40	<40	190	<40 [<40]	<40	<40	<40	600 [[400]]	19,000 J
Acenaphthene	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	400 [[300]]	23,000 J ^b
Acenaphthylene	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	100	<40 [<40]	<40	<40	<40	<300 [<100]	3,000 J
Acetophenone	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70 J	<40 J [<40 J]	<40 J	<40 J	<40 J	<300 J [<100 J]	<2,000 J
Atrazine	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
Benzaldehyde	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
Benzo(a)anthracene	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	970	<40 [<40]	<40	<40	<40	1,300 [[900]]	22,000 J
Benzo(a)pyrene	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	1,160	<40 [<40]	<40	<40	<40	1,200 [[800]]	11,000 J ^f
Benzo(b)fluoranthene	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	2,510 J	<40 [<40]	<40	<40	<40	2,200 J [[1,500 J]]	27,000 J
Benzo(g,h,i)perylene	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	580	<40 [<40]	<40	<40	<40	500 [[300]]	4,000 J
Benzo(k)fluoranthene	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	2,540 J	<40 [<40]	<40	<40	<40	2,200 J [[1,600 J]]	27,000 J
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	4,000 J
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70 J	<40 J [<40 J]	<40 J	<40 J	<40 J	<300 J [<100 J]	<2,000 J
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70 J	<40 J [<40 J]	<40 J	<40 J	<40 J	<300 J [<100 J]	<2,000 J
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70	<70	<1,000 J	<300	<80	<70	<70	<100 J	<70 J [<80 J]	<70 J	<70 J	<70 J	<500 J [<300 J]	<3,000 J
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	38,600 J	4,400	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
Caprolactam	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
Carbazole	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	90	<40 [<40]	<40	<40	<40	700 [[500]]	12,000 J ^{ab}
Chrysene	ug/kg	<40	<40	600 J	<100	<40	<40	<40	1,170	<40 [<40]	<40	<40	<40	1,400 [[1,000]]	22,000 J
Dibenz(a,h)anthracene	ug/kg	<70	<70	<1,000 J	<300	<80	<70	<70	200	<70 [<80]	<70	<70	<70	<500 X [<300]	<3,000 J
Dibenzofuran	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	300 [[200]]	18,000 J ^b
Diethyl phthalate	ug/kg	<70	<70	<1,000 J	<300	<80	<70	<70	<100	<70 [<80]	<70	<70	<70	<500 X [<300]	<3,000 J
Dimethyl phthalate	ug/kg	<60 B	<40	<600 J	<100	<40	<40	<40	<70 J	<40 J [<40 J]	<40 J	70	170	<300 [<100]	<2,000 J
Di-n-butylphthalate (DBP)	ug/kg	<70	<70	<1,000 J	<300	<80	<70	<70	<100	<70 [<80]	<70	<70	<70	<500 X [<300]	<3,000 J
Di-n-octyl phthalate (DnOP)	ug/kg	<70	<70	<1,000 J	<300	<80	<70	<70	<100 J	<70 J [<80 J]	<70 J	<70 J	<70 J	<500 J [<300 J]	<3,000 J
Fluoranthene	ug/kg	<40	<40	2,200 J	<100	<40	<40	<40	1,730	<40 [<40]	<40	<40	<40	3,300 [[2,300]]	103,000 J ^b
Fluorene	ug/kg	<40	<40	6,800 J ^b	800	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	500 [[400]]	29,000 J ^b
Hexachlorobenzene	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
Hexachlorobutadiene	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70 J	<40 J [<40 J]	<40 J	<40 J	<40 J	<300 J [<100 J]	<2,000 J
Hexachlorocyclopentadiene	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
Hexachloroethane	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70 J	<40 J [<40 J]	<40 J	<40 J	<40 J	<300 J [<100 J]	<2,000 J
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	580	<40 [<40]	<40	<40	<40	500 [[300]]	4,000 J
Isophorone	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70 J	<40 J [<40 J]	<40 J	<40 J	<40 J	<300 J [<100 J]	<2,000 J
Nitrobenzene	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70 J	<40 J [<40 J]	<40 J	<40 J	<40 J	<300 J [<100 J]	<2,000 J
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
N-Nitrosodiphenylamine	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
Pentachlorophenol	ug/kg	<40	<40	<600 J	<100	<40	<40	<40	<70	<40 [<40]	<40	<40	<40	<300 [<100]	<2,000 J
Phenanthrene	ug/kg	<40	<40	26,300 J ^b	1,100	<40	<40	<40	700	<40 [<40]	<40	<40	<40	2,500 [[1,800] ^b	106,000 J ^{abe}
Phenol	ug/kg	<40	<40	<600 J	<100	<40	<4								

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.1-MT126 16 - 17 06/06/12	SB-A5.2-NB110* 1 - 2 05/04/12	SB-A5.2-NB110* 6 - 7 05/04/12	SB-A5.2-NB110* 10 - 11 05/04/12	SB-A5.2-NB110* 15 - 16 05/04/12	SB-A5.2-NB110* 19 - 20 05/04/12	SB-A5.2-NB110* 24 - 25 05/04/12	SB-A5.2-NE150* 0 - 1 05/08/12	SB-A5.2-NE150* 5 - 6 05/08/12	SB-A5.2-NE150* 11 - 12 05/08/12	SB-A5.2-NE150* 20 - 21 05/09/12	SB-A5.2-NE150* 24 - 25 05/09/12	SB-A5.2-NE157* 1 - 2 05/09/12	SB-A5.2-NE157* 3 - 4 05/09/12
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	<3	<5	<3	<3	<3	<3	<8	<5 [<3]	<3	<3	<3	<3 [<3]	<3
Aroclor-1221 (PCB-1221)	ug/kg	NA	<3	<5	<3	<3	<3	<3	<8	<5 [<3]	<3	<3	<3	<3 [<3]	<3
Aroclor-1232 (PCB-1232)	ug/kg	NA	<3	<5	<3	<3	<3	<3	<8	<5 [<3]	<3	<3	<3	<3 [<3]	<3
Aroclor-1242 (PCB-1242)	ug/kg	NA	<3	<5	<3	<3	<3	<3	<8	<5 [<3]	<3	<3	<3	<3 [<3]	<3
Aroclor-1248 (PCB-1248)	ug/kg	NA	<3	<5	<3	<3	<3	<3	<8	<5 [<3]	<3	<3	<3	<3 [<3]	<3
Aroclor-1254 (PCB-1254)	ug/kg	NA	<3	<5	<3	<3	<3	<3	80 Y	<5 [<3]	<3	<3	<3	<3 [<3]	40 Q
Aroclor-1260 (PCB-1260)	ug/kg	NA	<3	<5	<3	<3	<3	<3	<8	<5 [<3]	<3	<3	<3	<3 [<3]	<3
Total PCBs	ug/kg	NA	ND	ND	ND	ND	ND	ND	80	ND [ND]	ND	ND	ND	ND [ND]	40
Inorganics															
Antimony	mg/kg	<0.21	<0.20	<0.20	<0.21	<0.22	<0.21	<0.20	<0.21	<0.20 [<0.21]	<0.20	<0.20	<0.20	<0.21 [<0.2]	<0.21
Arsenic	mg/kg	0.63	0.61	0.51	1.12	7.07 ^{abi}	1.32	2.34	2.65	0.48 [0.5]	0.87	2.08	2.54	0.40 [0.61]	1.56
Barium	mg/kg	27.2	8.54	10.6	28.9	17.2	38.3	20.1	79.7 ⁱ	35.9 [37.1]	19.5	29.9	21.8	10.0 [12.2]	20.7
Beryllium	mg/kg	<0.21	<0.20	<0.20	<0.21	<0.22	<0.21	<0.20	0.31	0.20 [0.48]	<0.20	<0.20	<0.20	<0.21 [<0.2]	<0.21
Boron	mg/kg	<4.2	7.98	<4.0	<4.2	<4.4	<4.2	<4.1	<4.2	<4.1 [<4.2]	<4.1	<3.9	<4.0	<4.2 [<4]	<4.3
Cadmium	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.11	<0.10	<0.10	1.04	<0.10 [<0.1]	<0.10	0.11	<0.10	0.10 [0.11]	0.33
Chromium	mg/kg	3.38	1.00	1.10	3.59	2.23	3.60	2.34	16.6	3.47 [3.25]	2.08	2.22	2.00	1.13 [1.44]	16.5
Cobalt	mg/kg	2.94	4.74	0.98	3.06	4.63	3.13	2.28	9.59 J ^{abi}	1.40 J [2.37 J]	1.95 J	2.43	2.18	86.2 [85] ^{abi}	1.58
Copper	mg/kg	10.4	1.57	4.31	3.81	8.12	14.4	6.45	77.0 ⁱ	7.53 [19.1]	9.39	8.17	6.85	2.98 [4.52]	43.6 ⁱ
Lead	mg/kg	5.13	2.04	5.16	3.15	4.06	4.50	3.62	155 J ⁱ	7.89 J [5.81 J]	3.93 J	4.31	3.56	3.20 [3.88]	34.6 ⁱ
Manganese	mg/kg	255	65.5	129	236	271	116	197	475 ^{abi}	111 [125]	234	247	218	104 [127]	194
Mercury	mg/kg	0.0096	0.0053	0.0076	0.0125	0.0122	0.0225	0.0105	0.0699	0.0153 [0.0141]	0.0075	0.0068	0.0075	<0.0064 [<0.0063]	0.0578
Nickel	mg/kg	8.79	1.71	3.61	9.28	10.3	7.50	6.88	47.2 ⁱ	3.46 [3.65]	7.98	7.28	6.52	3.18 [3.69]	31.5 ⁱ
Selenium	mg/kg	0.24	<0.20	<0.20	0.28	0.40	<0.21	0.22	<0.21	<0.20 [<0.21]	<0.20	0.25	0.30	<0.21 [<0.2]	<0.21
Silver	mg/kg	<0.10	0.49	<0.10	<0.10	<0.11	<0.10	<0.10	0.69 J	<0.10 J [<0.1 J]	<0.10 J	<0.10	<0.10	8.18 [8.64] ^{abi}	<0.10
Thallium	mg/kg	<0.21	<0.20	<0.20	<0.21	<0.22	<0.21	<0.20	<0.21	<0.20 [<0.21]	<0.20	<0.20	<0.20	<0.21 [<0.2]	<0.21
Vanadium	mg/kg	5.45	1.84	2.30	5.46	3.90	4.47	3.72	4.68 J	4.46 J [13.4 J]	3.82 J	4.19	3.66	1.11 [1.43]	1.68
Zinc	mg/kg	13.6	2.47	5.39	9.23	13.5	13.5	11.2	170 ⁱ	10.0 [8.32]	12.9	14.8	9.61	9.54 [9.48]	28.1
Miscellaneous															
Total solids	%	89	92	90	90	87	89	91	89	90 [86]	90	90	90	79 [79]	80

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-NE157*	SB-A5.2-NE157*	SB-A5.2-NE157*	SB-A5.2-NG105*	SB-A5.2-NG105*	SB-A5.2-NG105*	SB-A5.2-NG115*	SB-A5.2-NG115*	SB-A5.2-NG115*	SB-A5.2-NG115*	SB-A5.2-NG115*	SB-A5.2-NG115*	SB-A5.2-NG127*	SB-A5.2-NG127*
		9 - 10	15 - 16	24 - 25	2 - 3	7 - 8	13 - 14	1 - 2	6 - 7	11 - 12	15 - 16	20 - 21	24 - 25	2 - 3	6 - 7
	Units	05/09/12	05/09/12	05/09/12	05/04/12	05/04/12	05/04/12	05/03/12	05/03/12	05/04/12	05/04/12	05/04/12	05/04/12	05/02/12	05/02/12
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
1,2-Dichlorobenzene	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
1,4-Dichlorobenzene	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
2-Hexanone	ug/kg	<760	<740	<790	<770	<780	<770	<830	<780	<770	<770	<760	<780	<800	<770
Acetone	ug/kg	2,300 B	<1,800	4,000 B	<1,900	<1,900	<1,900	150,000 EB ^{ab}	<2,000	<1,900	<1,900	<1,900	<1,900	<2,000	<1,900
Bromodichloromethane	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
Bromoform	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
Carbon tetrachloride	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
Chlorobenzene	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
Chloroform (Trichloromethane)	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
Chloromethane (Methyl chloride)	ug/kg	<190	<180	<200	<190	<190	<190	<210	<200	<190	<190	<190	<190	<200	<190
cis-1,3-Dichloropropene	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
Styrene	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
trans-1,3-Dichloropropene	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
1,4-Dioxane	ug/kg	<760	<740	<790	<770	<780	<770	<830	<780	<770	<770	<760	<780	<800	<770
1,1,1-Trichloroethane	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
1,1,2,2-Tetrachloroethane	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
1,1,2-Trichloroethane	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
1,1-Dichloroethane	ug/kg	<76	<74	<79	<77	<78	230	<83	<78	<77	<77	<76	<78	<80	<77
1,1-Dichloroethene	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
1,2-Dichloroethane	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
cis-1,2-Dichloroethene	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
trans-1,2-Dichloroethene	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
Trichloroethene	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
Tetrachloroethene	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
Vinyl chloride	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
Chloroethane	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
Benzene	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
Ethylbenzene	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
Toluene	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
o-Xylene	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
m&p-Xylene	ug/kg	<150	<150	<160	<150	<160	<150	<170	<160	<150	<150	<150	<160	<160	<150
Xylene (total)	ug/kg	<226	<224	<239	<227	<238	<227	<253	<238	<227	<227	<226	<238	<240	<227
Methyl tert butyl ether (MTBE)	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<760	<740	<790	<770	<780	<770	<830	<780	<770	<770	<760	<780	<800	<770
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<760	<740	<790	<770	<780	<770	<830	<780	<770	<770	<760	<780	<800	<770
1,2,4-Trichlorobenzene	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
1,2,4-Trimethylbenzene	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
1,3,5-Trimethylbenzene	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
1,2-Dichloropropane	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
1,3-Dichlorobenzene	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
Cyclohexane	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
Methyl cyclohexane	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
Dibromochloromethane	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
Isopropyl benzene	ug/kg	<76	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	<80	<77
Naphthalene	ug/kg	26 J	<74	<79	<77	<78	<77	<83	<78	<77	<77	<76	<78	32 J	<77

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-NE157* 9 - 10 05/09/12	SB-A5.2-NE157* 15 - 16 05/09/12	SB-A5.2-NE157* 24 - 25 05/09/12	SB-A5.2-NG105* 2 - 3 05/04/12	SB-A5.2-NG105* 7 - 8 05/04/12	SB-A5.2-NG105* 13 - 14 05/04/12	SB-A5.2-NG115* 1 - 2 05/03/12	SB-A5.2-NG115* 6 - 7 05/03/12	SB-A5.2-NG115* 11 - 12 05/04/12	SB-A5.2-NG115* 15 - 16 05/04/12	SB-A5.2-NG115* 20 - 21 05/04/12	SB-A5.2-NG115* 24 - 25 05/04/12	SB-A5.2-NG127* 2 - 3 05/02/12	SB-A5.2-NG127* 6 - 7 05/02/12
	Units														
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<100	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40 J	<40 J	<40 J	<40	<40	<40 J	<40 J	<40 J	<40	<40	<40	<40	<100 J	<40
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40 J	<40 J	<40	<40	<40	<40	<100	<40
2,4-Dichlorophenol	ug/kg	<40 J	<40 J	<40 J	<40	<40	<40 J	<40 J	<40 J	<40	<40	<40	<40	<100	<40
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<100	<40
2,4-Dimethylphenol	ug/kg	<40 J	<40 J	<40 J	<40	<40	<40 J	<40 J	<40 J	<40	<40	<40	<40	<100	<40
2,4-Dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<100	<40
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40 J	<40	<40	<40	<40	<40	<40	<40	<100	<40
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<40 J	<40 J	<40 J	<40	<40	<40	<40	<100	<40
2-Chloronaphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40 J	<40	<40	<40	<40	<100	<40
2-Chlorophenol	ug/kg	<40	<40	<40	<40	<40 J	<40	<40	<40	<40	<40	<40	<40	<100	<40
2-Methylnaphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<100	<40
2-Methylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<100	<40
2-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40 J	<40 J	<40	<40	<40	<40	<100	<40
2-Nitrophenol	ug/kg	<40 J	<40 J	<40 J	<40	<40	<40	<40 J	<40 J	<40	<40	<40	<40	<100	<40
3&4-Methylphenol	ug/kg	<70	<70	<70	<80	<80	<70	<80	<80	<80	<80	<80	<70	<70	<300
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<100	<40
Naphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<100	<40
3-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<100	<40
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<100	<40
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<40	<40 J	<40	<40	<40	<40	<40	<40	<40	<100	<40
4-Chloroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<100	<40
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<40 J	<40	<40	<40	<40	<40	<40	<100	<40
4-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<100	<40
4-Nitrophenol	ug/kg	<40	<40	<40	<40	<40 J	<40	<40	<40	<40	<40	<40	<40	<100	<40
Anthracene	ug/kg	<40	<40	<40	<40	<40	<40	80	<40	<40	<40	<40	<40	500	<40
Acenaphthene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	200
Acenaphthylene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<100	<40
Acetophenone	ug/kg	<40 J	<40 J	<40 J	<40	<40	<40	<40 J	<40 J	<40	<40	<40	<40	<100	<40
Atrazine	ug/kg	<40	<40	<40	<40	<40	<40 J	<40 J	<40 J	<40	<40	<40	<40	<100	<40
Benzaldehyde	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<100	<40
Benzo(a)anthracene	ug/kg	<40	<40	<40	120	<40	120	910	<40	<40	<40	<40	<40	1,000	<40
Benzo(a)pyrene	ug/kg	<40	<40	<40	100	<40	110 J	930 J	<40 J	<40	<40	<40	<40	900	<40
Benzo(b)fluoranthene	ug/kg	<40	<40	<40	200 J	<40	190 J	2,430 J	<40	<40	<40	<40	<40	1,700 J	<40
Benzo(g,h,i)perylene	ug/kg	<40	<40	<40	70	<40	60	540 J	<40	<40	<40	<40	<40	400	<40
Benzo(k)fluoranthene	ug/kg	<40	<40	<40	200 J	<40	190 J	2,460 J	<40	<40	<40	<40	<40	1,800 J	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40	<40	<40	<40	<40 J	<40 J	<40	<40	<40	<40	<100	<40
bis(2-Chloroethoxy)methane	ug/kg	<40 J	<40 J	<40 J	<40	<40	<40 J	<40 J	<40 J	<40	<40	<40	<40	<100	<40
bis(2-Chloroethyl)ether	ug/kg	<40 J	<40 J	<40 J	<40	<40	<40 J	<40 J	<40 J	<40	<40	<40	<40	<100 J	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70 J	<70 J	<70 J	<80	<80	<70 J	<80 J	<80 J	<80	<80	<80	<70	<70	<300
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<40	<40	<40	<40 J	40 J	<40 J	<40	<40	<40	<40	<100	<40
Caprolactam	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<100	<40
Carbazole	ug/kg	<40	<40	<40	<40	<40	<40	40	<40	<40	<40	<40	<40	200	<40
Chrysene	ug/kg	<40	<40	<40	130	<40	120	1,150	<40	<40	<40	<40	<40	1,100	<40
Dibenz(a,h)anthracene	ug/kg	<70	<70	<70	<80	<80	<70	190 J	<80	<80	<80	<70	<70	<300	<80
Dibenzofuran	ug/kg	<40	<40	<40	<40	<40	<40 J	<40 J	<40 J	<40	<40	<40	<40	<100	<40
Diethyl phthalate	ug/kg	<70	<70	<70	<80	<80	<70 J	<80 J	<80 J	<80	<80	<80	<70	<70	<300
Dimethyl phthalate	ug/kg	40	100	60	<40	<40	<40 J	<40 J	<40 J	<40	<40	<40	<40	<100	<40
Di-n-butylphthalate (DBP)	ug/kg	<70	<70	<70	<80	<80	<70 J	<80 J	<80 J	<80	<80	<70	<70	<300	<80
Di-n-octyl phthalate (DnOP)	ug/kg	<70 J	<70 J	<70 J	<80	<80	<70 J	<80 J	<80 J	<80	<80	<70	<70	<300	<80
Fluoranthene	ug/kg	<40	<40	<40	210	<40	230	1,850	<40	<40	<40	<40	<40	1,900	<40
Fluorene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	200	<40
Hexachlorobenzene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<100	<40
Hexachlorobutadiene	ug/kg	<40 J	<40 J	<40 J	<40	<40	<40	<40 J	<40 J	<40	<40	<40	<40	<100	<40
Hexachlorocyclopentadiene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<100	<40
Hexachloroethane	ug/kg	<40 J	<40 J	<40 J	<40	<40	<40 J	<40 J	<40 J	<40	<40	<40	<40	<100	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	<40	80	<40	60	540 J	<40	<40	<40	<40	<40	400	<40
Isophorone	ug/kg	<40 J	<40 J	<40 J	<40	<40	<40 J	<40 J	<40 J	<40	<40	<40	<40	<100	<40
Nitrobenzene	ug/kg	<40 J	<40 J	<40 J	<40	<40	<40	<40 J	<40 J	<40	<40	<40	<40	<100	<40
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<40	<40	<40 J	<40	<40	<40	<40	<40	<40	<40	<100	<40
N-Nitrosodiphenylamine	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<100	<40
Pentachlorophenol	ug/kg	<40	<40	<40	<40	<40 J	<40	<40	<40	<40	<40	<40	<40	<100	<40
Phenanthrene	ug/kg	<40	<40	<40	110	<40	120	620	<40	<40	<40	<40	<40	1,400	<40
Phenol	ug/kg	<40	<40	<40	<40	<40 J	<40	<40	<40	<40	<40	<40	<40	<100	70
Pyrene	ug/kg	<40	<40	<40	180	<40	200	1,750	<40	<40	<40	<40	<40	1,700	<40

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A5.2-NE157*	SB-A5.2-NE157*	SB-A5.2-NE157*	SB-A5.2-NG105*	SB-A5.2-NG105*	SB-A5.2-NG105*	SB-A5.2-NG115*	SB-A5.2-NG115*	SB-A5.2-NG115*	SB-A5.2-NG115*	SB-A5.2-NG115*	SB-A5.2-NG115*	SB-A5.2-NG127*	SB-A5.2-NG127*
		9 - 10	15 - 16	24 - 25	2 - 3	7 - 8	13 - 14	1 - 2	6 - 7	11 - 12	15 - 16	20 - 21	24 - 25	2 - 3	6 - 7
		05/09/12	05/09/12	05/09/12	05/04/12	05/04/12	05/04/12	05/03/12	05/03/12	05/04/12	05/04/12	05/04/12	05/04/12	05/02/12	05/02/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1221 (PCB-1221)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1232 (PCB-1232)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1242 (PCB-1242)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1248 (PCB-1248)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1254 (PCB-1254)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1260 (PCB-1260)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<15	<3
Total PCBs	ug/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics															
Antimony	mg/kg	<0.20	<0.20	<0.21	<0.22	<0.22	<0.21	<0.20	<0.21	<0.21	<0.21	<0.20	<0.20	<0.20	<0.20
Arsenic	mg/kg	0.68	2.23	2.41	1.16	1.11	1.34	0.54	0.89	0.69	2.39	1.53	2.41	1.76	1.45
Barium	mg/kg	24.2	20.6	22.7	25.7	41.9	18.7	5.87	41.6	30.7	31.1	21.3	22.2	246 ⁱ	71.8
Beryllium	mg/kg	<0.20	<0.20	<0.21	<0.22	0.26	<0.21	<0.20	0.24	0.22	<0.21	<0.20	<0.20	4.05	0.42
Boron	mg/kg	<4.0	<4.1	<4.2	<4.4	<4.5	<4.2	<4.0	<4.3	<4.3	<4.2	<4.1	<4.1	33.9 ^a	<2.0
Cadmium	mg/kg	<0.10	0.11	<0.10	<0.11	0.11	<0.10	<0.10	<0.10	0.10	0.14	<0.10	0.13	0.35	0.15
Chromium	mg/kg	2.03	1.57	2.10	5.55	4.21	4.74	1.23	5.39	4.16	3.22	2.03	2.47	11.9	4.44
Cobalt	mg/kg	1.93	2.27	2.53	2.56	4.48	3.34	14.7 ^{abi}	3.97	2.29	3.64	2.21	2.54	2.24	3.01
Copper	mg/kg	8.03	10.8	7.01	5.82	4.52	7.84	2.40	4.83	4.39	11.4	7.59	7.15	28.7	7.95
Lead	mg/kg	3.88	3.73	3.92	5.91	4.58	3.66	3.49	4.12	4.40	5.80	3.71	4.35	51.4 ⁱ	7.31
Manganese	mg/kg	235	184	248	155	255	222	72.7	417	224	329	204	242	4,030 ^{abgi}	188
Mercury	mg/kg	0.0073	0.0062	0.0092	0.0105	0.0212	0.0089	0.0132	0.0206	0.0171	0.0106	0.0080	0.0093	0.0380	0.0243
Nickel	mg/kg	6.10	6.59	7.46	5.75	8.87	10.1	3.25	10.0	9.08	9.50	7.15	7.82	24.1 ⁱ	5.17
Selenium	mg/kg	0.25	0.20	0.22	<0.22	<0.22	<0.21	<0.20	<0.21	<0.21	0.25	<0.20	<0.20	0.58 ^{bi}	<0.20
Silver	mg/kg	<0.10	<0.10	<0.10	<0.11	<0.11	<0.10	2.32 ^{bi}	<0.10	<0.10	<0.10	<0.10	<0.10	0.11	<0.10
Thallium	mg/kg	<0.20	<0.20	<0.21	<0.22	<0.22	<0.21	<0.20	<0.21	<0.21	<0.21	<0.20	<0.20	<0.20	<0.20
Vanadium	mg/kg	3.67	2.71	3.95	4.95	7.71	5.90	1.87	7.58	6.65	5.79	3.36	4.09	7.76	8.02
Zinc	mg/kg	11.4	17.9	20.9	9.37	10.9	9.08	8.26	12.7	12.6	20.8	10.2	15.7	42.4	19.2
Miscellaneous															
Total solids	%	92	90	90	83	84	91	88	87	87	84	92	91	78	83

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-NG127* 13 - 14 05/02/12	SB-A5.2-NG127* 19 - 20 05/02/12	SB-A5.2-NJ129 1 - 2 05/23/12	SB-A5.2-NJ129 8.5 - 9.5 05/23/12	SB-A5.2-NJ129 12.5 - 13 05/23/12	SB-A5.2-NJ129 13.5 - 14.5 05/23/12	SB-A5.2-NJ145* 1 - 2 05/08/12	SB-A5.2-NJ145* 7 - 8 05/08/12	SB-A5.2-NJ145* 15 - 16 05/08/12	SB-A5.2-NJ145* 21 - 22 05/08/12	SB-A5.2-NJ162* 1 - 2 05/07/12	SB-A5.2-NJ162* 7 - 8 05/07/12	SB-A5.2-NJ162* 12 - 13 05/07/12	SB-A5.2-NJ162* 16 - 17 05/07/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
1,2-Dichlorobenzene	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
1,4-Dichlorobenzene	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
2-Hexanone	ug/kg	<770	<700	<830	<600	<790	<410 [<800]	<760 [<800]	<690	<770	<760	<710	<710	<760	<750 [<730]
Acetone	ug/kg	<1,900	<1,800	<2,100	<1,500	<2,000	<1,000 [<2,000]	<1,900 [2,000 B]	<1,700	3,000 B	<1,900	<1,800	<1,800	<1,900	2,300 B [2,000 JB]
Bromodichloromethane	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
Bromoform	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
Carbon tetrachloride	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
Chlorobenzene	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
Chloroform (Trichloromethane)	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
Chloromethane (Methyl chloride)	ug/kg	<190	<180	<210	<150	<200	<100 [<200]	<190 [<200]	<170	<190	<190	<180	<180	<190	<190 [<180]
cis-1,3-Dichloropropene	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
Styrene	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
trans-1,3-Dichloropropene	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
1,4-Dioxane	ug/kg	<770	<700	<830	<600	<790	<410 [<800]	<760 [<800]	<690	<770	<760	<710	<710	<760	<750 [<730]
1,1,1-Trichloroethane	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
1,1,2,2-Tetrachloroethane	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
1,1,2-Trichloroethane	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
1,1-Dichloroethane	ug/kg	<77	<70	<83	<60	24 J	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
1,1-Dichloroethene	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
1,2-Dichloroethane	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
cis-1,2-Dichloroethene	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
trans-1,2-Dichloroethene	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
Trichloroethene	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
Tetrachloroethene	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
Vinyl chloride	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
Chloroethane	ug/kg	<77	<70	<83	<60	220 J	280 J [300 J]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
Benzene	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
Ethylbenzene	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
Toluene	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
o-Xylene	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
m&p-Xylene	ug/kg	<150	<140	<170	<120	<160	<83 [<160]	<150 [<160]	<140	<150	<150	<140	<140	<150	<150 [<150]
Xylene (total)	ug/kg	<227	<210	<253	<180	<239	<124 [<240]	<226 [<240]	<209	<227	<226	<211	<211	<226	<225 [<223]
Methyl tert butyl ether (MTBE)	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<770	<700	<830	<600	<790	<410 [<800]	<760 [<800]	<690	<770	<760	<710	<710	<760	<750 [<730]
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<770	<700	<830	<600	<790	<410 [<800]	<760 [<800]	<690	<770	<760	<710	<710	<760	<750 [<730]
1,2,4-Trichlorobenzene	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
1,2,4-Trimethylbenzene	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
1,3,5-Trimethylbenzene	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
1,2-Dichloropropane	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
1,3-Dichlorobenzene	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
Cyclohexane	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
Methyl cyclohexane	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
Dibromochloromethane	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
Isopropyl benzene	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]
Naphthalene	ug/kg	<77	<70	<83	<60	<79	<41 [<80]	<76 [<80]	<69	<77	<76	<71	<71	<76	<75 [<73]

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-NG127* 13 - 14 05/02/12	SB-A5.2-NG127* 19 - 20 05/02/12	SB-A5.2-NJ129 1 - 2 05/23/12	SB-A5.2-NJ129 8.5 - 9.5 05/23/12	SB-A5.2-NJ129 12.5 - 13 05/23/12	SB-A5.2-NJ129 13.5 - 14.5 05/23/12	SB-A5.2-NJ145* 1 - 2 05/08/12	SB-A5.2-NJ145* 7 - 8 05/08/12	SB-A5.2-NJ145* 15 - 16 05/08/12	SB-A5.2-NJ145* 21 - 22 05/08/12	SB-A5.2-NJ162* 1 - 2 05/07/12	SB-A5.2-NJ162* 7 - 8 05/07/12	SB-A5.2-NJ162* 12 - 13 05/07/12	SB-A5.2-NJ162* 16 - 17 05/07/12
	Units														
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40 J	<40 J	<40	<1,000 J	<600 J	<40 J [<40 J]	<40 J [<40 J]	<200 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J [<40 J]
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40 J	<40	<40	<40 [<40]
2,4-Dichlorophenol	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 J [<40 J]	<200 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 [<40 J]
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
2,4-Dimethylphenol	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 J [<40 J]	<200 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 [<40 J]
2,4-Dinitrophenol	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40 J]
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40 J	<40	<40	<40 [<40]
2-Chloronaphthalene	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40 J	<40	<40	<40 [<40]
2-Chlorophenol	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
2-Methylnaphthalene	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
2-Methylphenol	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
2-Nitroaniline	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40 J	<40	<40	<40 [<40]
2-Nitrophenol	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 J [<40 J]	<200 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J [<40]
3&4-Methylphenol	ug/kg	<80	<80	<70	<2,000 J	<1,000 J	<80 [<80]	<70 [<70]	<400	<80	<70	<70	<70	<80	<80 [<80]
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
Naphthalene	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
3-Nitroaniline	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
4-Chloroaniline	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40 J	<40	<40	<40 [<40]
4-Nitroaniline	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
4-Nitrophenol	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
Anthracene	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
Acenaphthene	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
Acenaphthylene	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
Acetophenone	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 J [<40 J]	<200 J	<40 J	<40 J	<40 J	<40	<40 J	<40 J [<40 J]
Atrazine	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40 J	<40	<40	<40 [<40]
Benzaldehyde	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
Benzo(a)anthracene	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [40]	<200	<40	<40	<40	<40	<40	<40 [<40]
Benzo(a)pyrene	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [40]	<200	<40	<40	<40 J	<40	<40	<40 [<40]
Benzo(b)fluoranthene	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	60 J [90 J]	<200	<40	<40	<40	<40	<40	<40 [<40]
Benzo(g,h,i)perylene	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
Benzo(k)fluoranthene	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	60 J [90 J]	<200	<40	<40	<40	<40	<40	<40 [<40]
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40 J	<40	<40	<40 [<40]
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 J [<40 J]	<200 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J [<40 J]
bis(2-Chloroethyl)ether	ug/kg	<40 J	<40 J	<40	<1,000 J	<600 J	<40 [<40]	<40 J [<40 J]	<200 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J [<40 J]
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<80	<80	<70	<2,000 J	<1,000 J	<80 [<80]	<70 J [<70 J]	<400 J	<80 J	<70 J	<70 J	<70 J	<80 J	<80 J [<80 J]
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40 J	<40	<40	<40 [<40]
Caprolactam	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
Carbazole	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
Chrysene	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	40 [50]	<200	<40	<40	<40	<40	<40	<40 [<40]
Dibenz(a,h)anthracene	ug/kg	<80	<80	<70	<2,000 J	<1,000 J	<80 [<80]	<70 [<70]	<400 X	<80	<70	<70	<70	<80	<80 [<80]
Dibenzofuran	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40 J	<40	<40	<40 [<40]
Diethyl phthalate	ug/kg	<80	<80	<70	<2,000 J	<1,000 J	<80 [<80]	<70 [<70]	<400 X	<80	<70	<70 J	<70	<80	<80 [<80]
Dimethyl phthalate	ug/kg	<40	<40	<110 B	<1,000 J	<600 J	<50 B [<110 B]	<40 J [<40]	<200	<40	<40 J	<40	<40 B	<50 B	<550 B [<330 B]
Di-n-butylphthalate (DBP)	ug/kg	<80	<80	<70	<2,000 J	<1,000 J	<80 [<80]	<70 [<70]	<400 X	<80	<70	<70 J	<70	<80	<80 [<80]
Di-n-octyl phthalate (DnOP)	ug/kg	<80	<80	<70	<2,000 J	<1,000 J	<80 [<80]	<70 J [<70 J]	<400 J	<80 J	<70 J	<70 J	<70 J	<80 J	<80 J [<80 J]
Fluoranthene	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	60 [80]	<200	<40	<40	<40	<40	<40	<40 [<40]
Fluorene	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
Hexachlorobenzene	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
Hexachlorobutadiene	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 J [<40 J]	<200 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J [<40 J]
Hexachlorocyclopentadiene	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
Hexachloroethane	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 J [<40 J]	<200 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J [<40 J]
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
Isophorone	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 J [<40 J]	<200 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J [<40 J]
Nitrobenzene	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 J [<40 J]	<40 J [<40 J]	<200 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J [<40 J]
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
N-Nitrosodiphenylamine	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
Pentachlorophenol	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
Phenanthrene	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [40]	<200	<40	<40	<40	<40	<40	<40 [<40]
Phenol	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	<40 [<40]	<200	<40	<40	<40	<40	<40	<40 [<40]
Pyrene	ug/kg	<40	<40	<40	<1,000 J	<600 J	<40 [<40]	60 [70]	<200	<40	<40	<40	<40	<40	<40 [<40]

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-NG127*	SB-A5.2-NG127*	SB-A5.2-NJ129	SB-A5.2-NJ129	SB-A5.2-NJ129	SB-A5.2-NJ129	SB-A5.2-NJ145*	SB-A5.2-NJ145*	SB-A5.2-NJ145*	SB-A5.2-NJ145*	SB-A5.2-NJ162*	SB-A5.2-NJ162*	SB-A5.2-NJ162*	SB-A5.2-NJ162*
		13 - 14	19 - 20	1 - 2	8.5 - 9.5	12.5 - 13	13.5 - 14.5	1 - 2	7 - 8	15 - 16	21 - 22	1 - 2	7 - 8	12 - 13	16 - 17
	Units	05/02/12	05/02/12	05/23/12	05/23/12	05/23/12	05/23/12	05/08/12	05/08/12	05/08/12	05/08/12	05/07/12	05/07/12	05/07/12	05/07/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	<3	<3	<3	<20	<3	<3 [<3]	<3 [<3]	<3	<3	<3	<20	<20	<3	<3 [<3]
Aroclor-1221 (PCB-1221)	ug/kg	<3	<3	<3	<20	<3	<3 [<3]	<3 [<3]	<3	<3	<3	<20	<20	<3	<3 [<3]
Aroclor-1232 (PCB-1232)	ug/kg	<3	<3	<3	<20	<3	<3 [<3]	<3 [<3]	<3	<3	<3	<20	<20	<3	<3 [<3]
Aroclor-1242 (PCB-1242)	ug/kg	<3	<3	<3	<20	<3	<3 [<3]	<3 [<3]	<3	<3	<3	<20	<20	<3	<3 [<3]
Aroclor-1248 (PCB-1248)	ug/kg	<3	<3	<3	<20	<3	<3 [<3]	<3 [<3]	<3	<3	<3	<20	<20	<3	<3 [<3]
Aroclor-1254 (PCB-1254)	ug/kg	<3	<3	<3	120 Y	60	<3 [6]	<3 [<3]	<7	<3	<3	<20	<20	<3	<3 [<3]
Aroclor-1260 (PCB-1260)	ug/kg	<3	<3	8	<20	<3	<3 [<3]	<3 [<3]	<3	<3	<3	<20	<20	<3	<3 [<3]
Total PCBs	ug/kg	ND	ND	8	120	60	ND [6]	ND [ND]	ND	ND	ND	ND	ND	ND	ND [ND]
Inorganics															
Antimony	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21 [<0.2]	<0.20 [<0.2]	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20	<0.21 [<0.21]
Arsenic	mg/kg	1.83	0.88	0.88	1.05	1.20	2.10 [2.98]	1.00 [1.23]	0.70	1.29	0.80	0.87	1.15	3.32	1.00 [1]
Barium	mg/kg	13.4	31.5	6.73	3.83	25.3	13.4 [9.51]	8.33 [5.09]	13.9	28.9	18.8	8.27	14.3	27.8	4.05 [4.16]
Beryllium	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21 [<0.2]	<0.20 [<0.2]	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20	<0.21 [<0.21]
Boron	mg/kg	<2.0	<2.0	<4.0	<4.1	<4.1	<4.2 [<4]	<4.1 [<4]	<3.9	<3.9	<4.2	<3.8	<3.9	<4.0	<4.2 [<4.3]
Cadmium	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10 [<0.1]	0.12 [<0.1]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10 [<0.1]
Chromium	mg/kg	2.34	4.08	1.29	1.65	2.63	2.07 [2.35]	1.36 [0.97]	2.74	2.63	3.19	2.54	2.15	2.49	0.67 [0.74]
Cobalt	mg/kg	2.48	2.60	1.38	2.03	2.28	2.75 [3.23]	7.71 J [1.21 J] ^{abi}	1.63 J	2.54 J	1.93 J	3.39	1.86	2.78	0.64 [0.64]
Copper	mg/kg	7.66	10.9	3.75	4.42	8.45	5.82 [5.04]	2.58 [2.44]	9.85	9.71	7.75	3.74	7.78	8.47	2.56 [2.86]
Lead	mg/kg	3.60	4.57	3.82	3.09	6.00	3.12 [2.88]	8.48 J [1.88 J]	38.9 J ⁱ	4.50 J	4.58 J	6.53	3.98	4.67	1.57 [1.63]
Manganese	mg/kg	247	256	130	134	191	262 [222]	132 [124]	146	314	208	190	284	271	70.2 [76.2]
Mercury	mg/kg	<0.0056	0.0100	0.0068	<0.0058	<0.0058	<0.0058 [<0.0057]	<0.0052 [<0.0056]	0.0131	0.0088	0.0075	<0.0053	0.0069	0.0086	<0.0059 [<0.0063]
Nickel	mg/kg	8.60	8.13	3.59	4.83	5.27	6.65 [7.54]	4.51 [4.52]	9.54	9.34	7.77	6.61	6.44	8.78	2.59 [2.93]
Selenium	mg/kg	0.23	<0.20	<0.20	<0.20	0.22	<0.21 [0.2]	<0.20 [<0.2]	<0.20	0.29	0.23	0.20	<0.20	0.34	<0.21 [<0.21]
Silver	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10 [<0.1]	0.78 J [<0.1 J]	<0.10 J	<0.10 J	<0.10 J	0.19	<0.10	<0.10	<0.10 [<0.1]
Thallium	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21 [<0.2]	<0.20 [<0.2]	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20	<0.21 [<0.21]
Vanadium	mg/kg	3.67	4.82	1.98	2.06	5.56	3.64 [3.25]	1.56 J [1.45 J]	3.73 J	4.48 J	3.61 J	1.77	4.26	4.30	0.96 [1.1]
Zinc	mg/kg	8.24	12.1	5.02	10.2	11.2	7.80 [7.96]	8.28 [3.55]	71.0 ⁱ	12.8	11.7	4.36	10.3	13.3	6.42 [8.32]
Miscellaneous															
Total solids	%	87	88	94	85	86	85 [88]	93 [89]	88	88	89	93	90	88	83 [79]

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-NK111* 1 - 2 05/03/12	SB-A5.2-NK111* 7.5 - 8.5 05/03/12	SB-A5.2-NK111* 12 - 13 05/03/12	SB-A5.2-NK111* 15 - 16 05/03/12	SB-A5.2-NK111* 20 - 21 05/03/12	SB-A5.2-NK111* 23 - 24 05/03/12	SB-A5.2-NK111* 25 - 26 05/03/12	SB-A5.2-NL114 1 - 2 05/23/12	SB-A5.2-NL114 8.5 - 9.5 05/23/12	SB-A5.2-NL114 14.5 - 15.5 05/23/12	SB-A5.2-NL114 16.5 - 17.5 05/23/12	SB-A5.2-NL121* 1 - 2 05/02/12	SB-A5.2-NL121* 5 - 6 05/02/12	SB-A5.2-NL121* 10 - 11 05/02/12
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
1,2-Dichlorobenzene	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
1,4-Dichlorobenzene	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
2-Hexanone	ug/kg	<700	<690 [<700]	<750	<610	<650	<740	<990	<810	<800	<830	<710	<750	<760	<780
Acetone	ug/kg	1,800	<1,700 [<1,800]	<1,900	<1,500	<1,600	<1,800	<2,500	<2,000	<2,000	<2,100	<1,800	<1,900	<1,900	<1,900
Bromodichloromethane	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
Bromoform	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<70	<69 [110]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
Carbon tetrachloride	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
Chlorobenzene	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
Chloroform (Trichloromethane)	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
Chloromethane (Methyl chloride)	ug/kg	<180	<170 [<180]	<190	<150	<160	<180	<250	<200	<200	<210	<180	<190	<190	<190
cis-1,3-Dichloropropene	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
Styrene	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
trans-1,3-Dichloropropene	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
1,4-Dioxane	ug/kg	<700	<690 [<700]	<750	<610	<650	<740	<990	<810	<800	<830	<710	<750	<760	<780
1,1,1-Trichloroethane	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
1,1,2,2-Tetrachloroethane	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
1,1,2-Trichloroethane	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
1,1-Dichloroethane	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
1,1-Dichloroethene	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
1,2-Dichloroethane	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
cis-1,2-Dichloroethene	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
trans-1,2-Dichloroethene	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
Trichloroethene	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
Tetrachloroethene	ug/kg	<70	27 J [69 J]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
Vinyl chloride	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
Chloroethane	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	400 J	<76	<78
Benzene	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
Ethylbenzene	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
Toluene	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
o-Xylene	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
m&p-Xylene	ug/kg	<140	<140 [<140]	<150	<120	<130	<150	<200	<160	<160	<170	<140	<150	<150	<160
Xylene (total)	ug/kg	<210	<209 [<210]	<225	<181	<195	<224	<299	<241	<240	<253	<211	<225	<226	<238
Methyl tert butyl ether (MTBE)	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<700	<690 [<700]	<750	<610	<650	<740	<990	<810	<800	<830	<710	<750	<760	<780
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<700	<690 [<700]	<750	<610	<650	<740	<990	<810	<800	<830	<710	<750	<760	<780
1,2,4-Trichlorobenzene	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
1,2,4-Trimethylbenzene	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
1,3,5-Trimethylbenzene	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
1,2-Dichloropropane	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
1,3-Dichlorobenzene	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
Cyclohexane	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
Methyl cyclohexane	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
Dibromochloromethane	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
Isopropyl benzene	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78
Naphthalene	ug/kg	<70	<69 [<70]	<75	<61	<65	<74	<99	<81	<80	<83	<71	<75	<76	<78

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-NK111* 1 - 2 05/03/12	SB-A5.2-NK111* 7.5 - 8.5 05/03/12	SB-A5.2-NK111* 12 - 13 05/03/12	SB-A5.2-NK111* 15 - 16 05/03/12	SB-A5.2-NK111* 20 - 21 05/03/12	SB-A5.2-NK111* 23 - 24 05/03/12	SB-A5.2-NK111* 25 - 26 05/03/12	SB-A5.2-NL114 1 - 2 05/23/12	SB-A5.2-NL114 8.5 - 9.5 05/23/12	SB-A5.2-NL114 14.5 - 15.5 05/23/12	SB-A5.2-NL114 16.5 - 17.5 05/23/12	SB-A5.2-NL121* 1 - 2 05/02/12	SB-A5.2-NL121* 5 - 6 05/02/12	SB-A5.2-NL121* 10 - 11 05/02/12
Units															
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40	<300 J [<2,000 J]	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<2,000 J	<400 J	<40	<40	<40	<40
2,4,6-Trichlorophenol	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40 J	<40 J	<40	<2,000 J	<400 J	<40	<40	<40	<40
2,4-Dichlorophenol	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40 J	<40 J	<40	<2,000 J	<400 J	<40	<40	<40	<40
2,4,5-Trichlorophenol	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
2,4-Dimethylphenol	ug/kg	<40	400 [<2,000 J]	<40	<40	<40	<40 J	<40 J	<40	<48,000 BJ	<600 BJ	<40	<40	<40	<40
2,4-Dinitrophenol	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
2,4-Dinitrotoluene	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
2,6-Dinitrotoluene	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40 J	<40 J	<40	<2,000 J	<400 J	<40	<40	<40	<40
2-Chloronaphthalene	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40 J	<40 J	<40	<2,000 J	<400 J	<40	<40	<40	<40
2-Chlorophenol	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
2-Methylnaphthalene	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
2-Methylphenol	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
2-Nitroaniline	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40 J	<40 J	<40	<2,000 J	<400 J	<40	<40	<40	<40
2-Nitrophenol	ug/kg	<40	<300 J [<2,000 J]	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<2,000 J	<400 J	<40	<40	<40	<40
3&4-Methylphenol	ug/kg	<70	<500 [<5,000 J]	<70	<70	<70	<80	<70	<80	<5,000 J	<800 J	<70	<70	<80	<70
3,3'-Dichlorobenzidine	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
Naphthalene	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
3-Nitroaniline	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
4-Bromophenyl phenyl ether	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
4-Chloro-3-methylphenol	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
4-Chloroaniline	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40 J	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
4-Nitroaniline	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
4-Nitrophenol	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
Anthracene	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
Acenaphthene	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
Acenaphthylene	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
Acetophenone	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40 J	<40 J	<40	<2,000 J	<400 J	<40	<40	<40	<40
Atrazine	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40 J	<40 J	<40	<2,000 J	<400 J	<40	<40	<40	<40
Benzaldehyde	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
Benzo(a)anthracene	ug/kg	<40	<300 J [3,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	110	<40	<40
Benzo(a)pyrene	ug/kg	<40	<300 J [2,000 J]	<40	<40	<40	<40 J	<40 J	<40	<2,000 J	<400 J	<40	130 J	<40	<40
Benzo(b)fluoranthene	ug/kg	<40	<300 J [5,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	290 J	<40	<40
Benzo(g,h,i)perylene	ug/kg	<40	<300 J [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	80 J	<40	<40
Benzo(k)fluoranthene	ug/kg	<40	<300 J [5,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	290 J	<40	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40 J	<40 J	<40	<2,000 J	<400 J	<40	<40	<40	<40
bis(2-Chloroethoxy)methane	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40 J	<40 J	<40	<2,000 J	<400 J	<40	<40	<40	<40
bis(2-Chloroethyl)ether	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40 J	<40 J	<40	<2,000 J	<400 J	<40	<40	<40	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70	<500 [<5,000 J]	<70	<70	<70	<80 J	<70 J	<80	<5,000 J	<800 J	<70	<70	<80	<70
Butyl benzylphthalate (BBP)	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40 J	<40 J	<40	<2,000 J	<400 J	<40	<40	<40	<40
Caprolactam	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
Carbazole	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
Chrysene	ug/kg	<40	<300 J [3,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	130	<40	<40
Dibenz(a,h)anthracene	ug/kg	<70	<500 J [<5,000 J]	<70	<70	<70	<80	<70	<80	<5,000 J	<800 J	<70	<70 J	<80	<70
Dibenzofuran	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40 J	<40 J	<40	<2,000 J	<400 J	<40	<40	<40	<40
Diethyl phthalate	ug/kg	<70	<500 [<5,000 J]	<70	<70	<70	<80 J	<70 J	<80	<5,000 J	<800 J	<70	<70	<80	<70
Dimethyl phthalate	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40 J	<40 J	<80 B	<2,000 J	<400 J	<50 B	<40	<40	<40
Di-n-butylphthalate (DBP)	ug/kg	<70	<500 [<5,000 J]	<70	<70	<70	<80 J	<70 J	<80	<5,000 J	<800 J	<70	<70	<80	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<70	<500 J [<5,000 J]	<70	<70	<70	<80 J	<70 J	<80	<5,000 J	<800 J	<70	<70 J	<80	<70
Fluoranthene	ug/kg	<40	<300 [5,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	170	<40	<40
Fluorene	ug/kg	<40	<300 J [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
Hexachlorobenzene	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
Hexachlorobutadiene	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40 J	<40 J	<40	<2,000 J	<400 J	<40	<40	<40	<40
Hexachlorocyclopentadiene	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
Hexachloroethane	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40 J	<40 J	<40	<2,000 J	<400 J	<40	<40	<40	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<300 J [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	80 J	<40	<40
Isophorone	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40 J	<40 J	<40	<2,000 J	<400 J	<40	<40	<40	<40
Nitrobenzene	ug/kg	<40	<300 J [<2,000 J]	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<2,000 J	<400 J	<40	<40	<40	<40
N-Nitrosodi-n-propylamine	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
N-Nitrosodiphenylamine	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
Pentachlorophenol	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
Phenanthrene	ug/kg	<40	300 J [2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	40	<40	<40
Phenol	ug/kg	<40	<300 [<2,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	<40	<40	<40
Pyrene	ug/kg	<40	400 J [5,000 J]	<40	<40	<40	<40	<40	<40	<2,000 J	<400 J	<40	190	<40	<40

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A5.2-NK111*	SB-A5.2-NK111*	SB-A5.2-NK111*	SB-A5.2-NK111*	SB-A5.2-NK111*	SB-A5.2-NK111*	SB-A5.2-NK111*	SB-A5.2-NL114	SB-A5.2-NL114	SB-A5.2-NL114	SB-A5.2-NL114	SB-A5.2-NL121*	SB-A5.2-NL121*	SB-A5.2-NL121*
		1 - 2	7.5 - 8.5	12 - 13	15 - 16	20 - 21	23 - 24	25 - 26	1 - 2	8.5 - 9.5	14.5 - 15.5	16.5 - 17.5	1 - 2	5 - 6	10 - 11
		05/03/12	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12	05/23/12	05/23/12	05/23/12	05/23/12	05/02/12	05/02/12	05/02/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	<3	<3 <3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1221 (PCB-1221)	ug/kg	<3	<3 <3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1232 (PCB-1232)	ug/kg	<3	<3 <3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1242 (PCB-1242)	ug/kg	<3	<3 <3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1248 (PCB-1248)	ug/kg	<3	<3 <3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1254 (PCB-1254)	ug/kg	<3	<30 J [10 J]	<3	<3	<3	<3	<3	<3	<3	<3	<3	<10	<3	<3
Aroclor-1260 (PCB-1260)	ug/kg	<3	<3 <3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Total PCBs	ug/kg	ND	ND [10 J]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics															
Antimony	mg/kg	<0.20	<0.20 <0.21	<0.21	<0.20	<0.20	<0.21	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Arsenic	mg/kg	0.54	1.21 [1.91]	0.49	0.25	1.22	0.83	1.49	0.75	1.50	1.36	0.76	0.67	0.48	1.99
Barium	mg/kg	11.2	24.6 [34.9]	17.1	4.82	13.9	10.1	25.7	4.72	29.2	13.6	6.86	19.4	15.3	28.8
Beryllium	mg/kg	<0.20	<0.20 [0.24]	<0.21	<0.20	<0.20	<0.21	0.23	<0.21	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Boron	mg/kg	<3.9	<3.8 <4.3	<4.3	<4.0	<4.0	<4.2	<4.1	<4.2	<4.1	<4.1	<4.0	<2.0	<2.0	<2.0
Cadmium	mg/kg	<0.10	<0.10 <0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.11	0.11	<0.10	0.12	<0.10	0.11
Chromium	mg/kg	1.61	4.98 [6.4]	3.60	3.03	3.68	7.81	5.60	1.11	3.82	3.13	1.92	2.16	2.24	3.02
Cobalt	mg/kg	2.46	2.69 [3.24]	1.93	0.48	2.18	1.63	3.39	1.35	2.48	2.48	1.15	2.77	1.91	2.70
Copper	mg/kg	1.83	7.69 [10.3]	4.81	2.52	5.65	5.00	9.07	1.31	10.6	9.41	2.65	5.00	2.49	11.2
Lead	mg/kg	2.10	4.01 J [16.8 J]	2.95	1.26	3.88	2.33	4.80	1.70	4.63	4.44	1.76	30.3 ⁱ	9.44	5.43
Manganese	mg/kg	151	187 [206]	176	72.1	182	131	182	164	242	308	120	200	91.6	275
Mercury	mg/kg	0.0093	0.0106 [0.014]	0.0113	<0.0054	0.0114	0.0082	0.0112	<0.0056	0.0080	0.0136	0.0060	0.0118	0.0074	0.0099
Nickel	mg/kg	5.02	7.87 [8.41]	5.83	2.55	6.99	6.07	8.94	4.07	7.29	8.68	3.76	3.38	1.92	7.94
Selenium	mg/kg	0.21	<0.20 <0.21	0.31	0.21	<0.20	<0.21	<0.20	<0.21	0.27	0.34	<0.20	<0.20	<0.20	0.34
Silver	mg/kg	0.14	<0.10 <0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.20	0.10	<0.10
Thallium	mg/kg	<0.20	<0.20 <0.21	<0.21	<0.20	<0.20	<0.21	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Vanadium	mg/kg	2.16	6.41 [8.43]	5.85	1.81	5.71	4.23	11.5	1.94	7.88	5.36	3.10	2.31	2.05	5.12
Zinc	mg/kg	3.89	14.2 [19.8]	10.4	3.84	12.9	17.3	13.7	2.69	13.9	11.5	5.41	12.1	4.63	12.8
Miscellaneous															
Total solids	%	94	97 [88]	89	91	91	87	90	88	87	88	92	92	84	89

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-NL121*	SB-A5.2-NL121*	SB-A5.2-NO106*	SB-A5.2-NO106*	SB-A5.2-NO106*	SB-A5.2-NO106*	SB-A5.2-NO106*	SB-A5.2-NO106*	SB-A5.2-NO106*	SB-A5.2-NO116*	SB-A5.2-NO116*	SB-A5.2-NO116*	SB-A5.2-NO116*	SB-A5.2-NO116*
		15 - 16	20 - 21	1 - 2	6 - 7	10 - 11	13 - 14	20 - 21	24 - 25	1 - 2	2 - 3	7 - 8	12 - 13	17 - 18	22 - 23
	Units	05/02/12	05/02/12	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12	05/02/12	05/02/12	05/02/12	05/02/12	05/02/12	05/02/12
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
1,2-Dichlorobenzene	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
1,4-Dichlorobenzene	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
2-Hexanone	ug/kg	<800	<760	<790	<810	<910	<670	<730	<730	<810	<790 [<790]	<770	<760	<780	<730
Acetone	ug/kg	<2,000	<1,900	<2,000	<2,000	<2,300	<1,700	<1,800	<1,800	<2,000	<2,000 [<2,000]	<1,900	<1,900	<1,900	<1,800
Bromodichloromethane	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
Bromoform	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
Carbon tetrachloride	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
Chlorobenzene	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
Chloroform (Trichloromethane)	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
Chloromethane (Methyl chloride)	ug/kg	<200	<190	<200	<200	<230	<170	<180	<180	<200	<200 [<200]	<190	<190	<190	<180
cis-1,3-Dichloropropene	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
Styrene	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
trans-1,3-Dichloropropene	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
1,4-Dioxane	ug/kg	<800	<760	<790	<810	<910	<670	<730	<730	<810	<790 [<790]	<770	<760	<780	<730
1,1,1-Trichloroethane	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
1,1,2,2-Tetrachloroethane	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
1,1,2-Trichloroethane	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
1,1-Dichloroethane	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
1,1-Dichloroethene	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
1,2-Dichloroethane	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
cis-1,2-Dichloroethene	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
trans-1,2-Dichloroethene	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
Trichloroethene	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
Tetrachloroethene	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
Vinyl chloride	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
Chloroethane	ug/kg	<80	460 J	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
Benzene	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
Ethylbenzene	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
Toluene	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
o-Xylene	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
m&p-Xylene	ug/kg	<160	<150	<160	<160	<180	<130	<150	<150	<160	<160 [<160]	<150	<150	<160	<150
Xylene (total)	ug/kg	<240	<226	<239	<241	<271	<197	<223	<223	<241	<239 [<239]	<227	<226	<238	<223
Methyl tert butyl ether (MTBE)	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<800	<760	<790	<810	<910	<670	<730	<730	<810	<790 [<790]	<770	<760	<780	<730
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<800	<760	<790	<810	<910	<670	<730	<730	<810	<790 [<790]	<770	<760	<780	<730
1,2,4-Trichlorobenzene	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
1,2,4-Trimethylbenzene	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
1,3,5-Trimethylbenzene	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
1,2-Dichloropropane	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
1,3-Dichlorobenzene	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
Cyclohexane	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
Methyl cyclohexane	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
Dibromochloromethane	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
Isopropyl benzene	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73
Naphthalene	ug/kg	<80	<76	<79	<81	<91	<67	<73	<73	<81	<79 [<79]	<77	<76	<78	<73

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-NL121*	SB-A5.2-NL121*	SB-A5.2-NO106*	SB-A5.2-NO106*	SB-A5.2-NO106*	SB-A5.2-NO106*	SB-A5.2-NO106*	SB-A5.2-NO106*	SB-A5.2-NO106*	SB-A5.2-NO116*	SB-A5.2-NO116*	SB-A5.2-NO116*	SB-A5.2-NO116*	SB-A5.2-NO116*
		15 - 16	20 - 21	1 - 2	6 - 7	10 - 11	13 - 14	20 - 21	24 - 25	1 - 2	2 - 3	7 - 8	12 - 13	17 - 18	22 - 23
	Units	05/02/12	05/02/12	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12	05/02/12	05/02/12	05/02/12	05/02/12	05/02/12	05/02/12
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40	<40	<40	<40 J	<40 J	<40 J	<500 J	<40 J	<40	<40 [<40]	<40	<40	<40	<40
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
2,4-Dichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
2,4-Dimethylphenol	ug/kg	<40	<40	<40	<40	<40	<40	11,800 J ^{ab}	100	<40	<40 [<40]	<40	<40	<40	<40
2,4-Dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
2-Chloronaphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
2-Chlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
2-Methylnaphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
2-Methylphenol	ug/kg	<40	<40	<40	<40	<40	<40	1,000 J	120	<40	<40 [<40]	<40	<40	<40	<40
2-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
2-Nitrophenol	ug/kg	<40	<40	<40	<40 J	<40 J	<40 J	<500 J	<40 J	<40	<40 [<40]	<40	<40	<40	<40
3&4-Methylphenol	ug/kg	<70	<70	<70	<70	<80	<80	47,000 J ^{ab}	6,350 ^b	<70	<70 [<70]	<70	<70	<70	<70
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Naphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
3-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
4-Chloroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
4-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
4-Nitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	50	<40
Anthracene	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Acenaphthene	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Acenaphthylene	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Acetophenone	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Atrazine	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Benzaldehyde	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Benzo(a)anthracene	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Benzo(a)pyrene	ug/kg	<40	<40	40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Benzo(b)fluoranthene	ug/kg	<40	<40	80 J	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Benzo(g,h,i)perylene	ug/kg	<40	<40	50	<40	<40	<40	<500 J	<40	<40	60 [50]	<40	<40	<40	<40
Benzo(k)fluoranthene	ug/kg	<40	<40	80 J	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70	<70	<70	<70	<80	<80	<1,000 J	<70	<70	<70 [<70]	<70	<70	<70	<70
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Caprolactam	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Carbazole	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Chrysene	ug/kg	<40	<40	40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Dibenz(a,h)anthracene	ug/kg	<70	<70	<70	<70	<80	<80	<1,000 J	<70	<70	<70 [<70]	<70	<70	<70	<70
Dibenzofuran	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Diethyl phthalate	ug/kg	<70	<70	<70	<70	<80	<80	<1,000 J	<70	<70	<70 [<70]	<70	<70	<70	<70
Dimethyl phthalate	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Di-n-butylphthalate (DBP)	ug/kg	<70	<70	<70	<70	<80	<80	<1,000 J	<70	<70	<70 [<70]	<70	<70	<70	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<70	<70	<70	<70	<80	<80	<1,000 J	<70	<70	<70 [<70]	<70	<70	<70	<70
Fluoranthene	ug/kg	<40	<40	50	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Fluorene	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Hexachlorobenzene	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Hexachlorobutadiene	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Hexachlorocyclopentadiene	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Hexachloroethane	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	50	<40	<40	<40	<500 J	<40	<40	60 [50]	<40	<40	<40	<40
Isophorone	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Nitrobenzene	ug/kg	<40	<40	<40	<40 J	<40 J	<40 J	<500 J	<40 J	<40	<40 [<40]	<40	<40	<40	<40
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<40	<40	660 ^a	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
N-Nitrosodiphenylamine	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Pentachlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Phenanthrene	ug/kg	<40	<40	<40	<40	<40	<40	1,000 J	<40	<40	<40 [<40]	<40	<40	<40	<40
Phenol	ug/kg	<40	<40	<40	<40	50	<40	44,900 J ^b	13,800 D ^b	<40	<40 [<40]	<40	<40	<40	<40
Pyrene	ug/kg	<40	<40	40	<40	<40	<40	<500 J	<40	<40	<40 [<40]	<40	<40	<40	<40

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-NL121*	SB-A5.2-NL121*	SB-A5.2-NO106*	SB-A5.2-NO106*	SB-A5.2-NO106*	SB-A5.2-NO106*	SB-A5.2-NO106*	SB-A5.2-NO106*	SB-A5.2-NO106*	SB-A5.2-NO116*	SB-A5.2-NO116*	SB-A5.2-NO116*	SB-A5.2-NO116*	SB-A5.2-NO116*
		15 - 16	20 - 21	1 - 2	6 - 7	10 - 11	13 - 14	20 - 21	24 - 25	1 - 2	2 - 3	7 - 8	12 - 13	17 - 18	22 - 23
	Units	05/02/12	05/02/12	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12	05/02/12	05/02/12	05/02/12	05/02/12	05/02/12	05/02/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1221 (PCB-1221)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1232 (PCB-1232)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1242 (PCB-1242)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1248 (PCB-1248)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1254 (PCB-1254)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1260 (PCB-1260)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<40	<50	<3	<3	<3
Total PCBs	ug/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics															
Antimony	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.22	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Arsenic	mg/kg	1.82	2.17	0.67	0.83	0.73	0.69	2.69	1.54	0.72	0.66	0.73	0.88	0.40	1.74
Barium	mg/kg	26.6	16.8	7.35	7.77	7.45	4.34	16.4	3.23	12.6	13.8	13.2	16.0	18.7	15.2
Beryllium	mg/kg	<0.20	<0.20	<0.19	<0.2	<0.2	<0.22	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Boron	mg/kg	<2.0	<2.0	<3.9	<4.1	<4	<4.4	<4.1	<4.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0
Cadmium	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11	0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10
Chromium	mg/kg	2.89	2.97	1.32	1.09	1.30	1.14	5.46	0.70	1.69	1.58	1.6	2.59	3.27	2.43
Cobalt	mg/kg	2.60	2.33	1.36	1.38	1.09	0.87	3.13	0.98	1.52	1.82	1.64	1.90	2.94	2.56
Copper	mg/kg	9.43	8.40	1.35	2.29	4.65	2.11	9.35	2.49	1.80	1.65	1.95	3.33	7.35	7.45
Lead	mg/kg	3.84	3.82	2.49	2.47	1.97	1.68	4.01	2.26	2.76	3.09	4	2.42	3.60	3.58
Manganese	mg/kg	239	227	142	169	127	220	219	112	156	170	142	150	572	242
Mercury	mg/kg	0.0093	0.0086	0.0088	0.0062	0.0088	<0.0062	0.0166	0.0056	0.0095	0.0073	0.0137	0.0063	0.0104	0.0083
Nickel	mg/kg	8.05	7.28	3.63	3.57	2.75	2.79	8.99	3.06	2.80	3.96	4.78	5.33	7.98	7.89
Selenium	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.22	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Silver	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10
Thallium	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.22	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Vanadium	mg/kg	4.61	4.07	1.76	1.94	1.55	1.15	8.92	1.20	2.70	2.24	1.91	5.17	4.69	4.02
Zinc	mg/kg	11.4	10.7	3.33	4.17	4.88	3.17	17.4	16.7	4.68	6.95	10.1	8.02	10.7	10.8
Miscellaneous															
Total solids	%	89	89	95	89	84	80	91	95	89	90	89	91	90	91

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-NO150* 1 - 2 05/08/12	SB-A5.2-NO150* 7 - 8 05/08/12	SB-A5.2-NO150* 12 - 13 05/08/12	SB-A5.2-NO150* 18 - 19 05/08/12	SB-A5.2-NO150* 24 - 25 05/08/12	SB-A5.2-NO156* 1 - 2 05/09/12	SB-A5.2-NO156* 6 - 7 05/09/12	SB-A5.2-NO156* 15 - 16 05/09/12	SB-A5.2-NO156* 21 - 22 05/09/12	SB-A5.2-NO157* 0 - 1 05/08/12	SB-A5.2-NR128* 1 - 2 05/01/12	SB-A5.2-NR128* 3 - 4 05/01/12	SB-A5.2-NR128* 8 - 9 05/01/12	SB-A5.2-NR128* 13 - 14 05/02/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
1,2-Dichlorobenzene	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
1,4-Dichlorobenzene	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
2-Hexanone	ug/kg	<710	<730	<790	<760	<760	<760	<790	<770	<780	<720	<770	<770	<750	<790
Acetone	ug/kg	2,300 B	1,900 B	2,800 B	2,100 B	<1,900	2,600 B	<2,000	<1,900	2,400 B	<1,800	<1,900	<1,900	<1,900	<2,000
Bromodichloromethane	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
Bromoform	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
Carbon tetrachloride	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
Chlorobenzene	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
Chloroform (Trichloromethane)	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
Chloromethane (Methyl chloride)	ug/kg	<180	<180	<200	<190	<190	<190	<200	<190	<190	<180	<190	<190	<190	<200
cis-1,3-Dichloropropene	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
Styrene	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
trans-1,3-Dichloropropene	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
1,4-Dioxane	ug/kg	<710	<730	<790	<760	<760	<760	<790	<770	<780	<720	<770	<770	<750	<790
1,1,1-Trichloroethane	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	130	<77	<75	<79
1,1,2,2-Tetrachloroethane	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
1,1,2-Trichloroethane	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
1,1-Dichloroethane	ug/kg	<71	<73	30 J	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
1,1-Dichloroethene	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
1,2-Dichloroethane	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
cis-1,2-Dichloroethene	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
trans-1,2-Dichloroethene	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
Trichloroethene	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	76 J	<77	<75	<79
Tetrachloroethene	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
Vinyl chloride	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
Chloroethane	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
Benzene	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
Ethylbenzene	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
Toluene	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
o-Xylene	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
m&p-Xylene	ug/kg	<140	<150	<160	<150	<150	<150	<160	<150	<160	<140	<150	<150	<150	<160
Xylene (total)	ug/kg	<211	<223	<239	<226	<226	<226	<239	<227	<238	<212	<227	<227	<225	<239
Methyl tert butyl ether (MTBE)	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<710	<730	<790	<760	<760	<760	<790	<770	<780	<720	<770	<770	<750	<790
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<710	<730	<790	<760	<760	<760	<790	<770	<780	<720	<770	<770	<750	<790
1,2,4-Trichlorobenzene	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
1,2,4-Trimethylbenzene	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	22 J	<77	<75	<79
1,3,5-Trimethylbenzene	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
1,2-Dichloropropane	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
1,3-Dichlorobenzene	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
Cyclohexane	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
Methyl cyclohexane	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
Dibromochloromethane	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
Isopropyl benzene	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	<77	<77	<75	<79
Naphthalene	ug/kg	<71	<73	<79	<76	<76	<76	<79	<77	<78	<72	55 J	42 J	<75	<79

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-NO150* 1 - 2 05/08/12	SB-A5.2-NO150* 7 - 8 05/08/12	SB-A5.2-NO150* 12 - 13 05/08/12	SB-A5.2-NO150* 18 - 19 05/08/12	SB-A5.2-NO150* 24 - 25 05/08/12	SB-A5.2-NO156* 1 - 2 05/09/12	SB-A5.2-NO156* 6 - 7 05/09/12	SB-A5.2-NO156* 15 - 16 05/09/12	SB-A5.2-NO156* 21 - 22 05/09/12	SB-A5.2-NO157* 0 - 1 05/08/12	SB-A5.2-NR128* 1 - 2 05/01/12	SB-A5.2-NR128* 3 - 4 05/01/12	SB-A5.2-NR128* 8 - 9 05/01/12	SB-A5.2-NR128* 13 - 14 05/02/12
	Units														
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40 J	<1,000 J	<600 J	<40	<40 J
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
2,4-Dichlorophenol	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40 J	<1,000 J	<600 J	<40	<40
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
2,4-Dimethylphenol	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40 J	<1,000 J	<600 J	<40	<40
2,4-Dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
2-Chloronaphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
2-Chlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
2-Methylnaphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	60	<40
2-Methylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
2-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
2-Nitrophenol	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40 J	<1,000 J	<600 J	<40	<40
3&4-Methylphenol	ug/kg	<80	<80	<70	<70	<70	<70	<80	<70	<70	<80	<2,000 J	<1,000 J	<80	<70
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
Naphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
3-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
4-Chloroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
4-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
4-Nitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
Anthracene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	2,000 J	1,300 J	120	<40
Acenaphthene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	1,000 J	<600 J	<40	<40
Acenaphthylene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
Acetophenone	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40 J	<1,000 J	<600 J	<40	<40
Atrazine	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
Benzaldehyde	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
Benzo(a)anthracene	ug/kg	50	<40	<40	<40	<40	40	<40	<40	<40	150	2,000 J	<600 J	<40	<40
Benzo(a)pyrene	ug/kg	50	<40	<40	<40	<40	<40	<40	<40	<40	180	2,000 J	<600 J	<40	<40
Benzo(b)fluoranthene	ug/kg	90 J	<40	<40	<40	<40	60 J	<40	<40	<40	370 J	4,000 J	<600 J	<40	<40
Benzo(g,h,i)perylene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	100	<1,000 J	<600 J	<40	<40
Benzo(k)fluoranthene	ug/kg	90 J	<40	<40	<40	<40	60 J	<40	<40	<40	370 J	4,000 J	<600 J	<40	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	40	<40
bis(2-Chloroethoxy)methane	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40 J	<1,000 J	<600 J	<40	<40
bis(2-Chloroethyl)ether	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40 J	<1,000 J	<600 J	<40	<40 J
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<80 J	<80 J	<70 J	<70 J	<70 J	<70 J	<80 J	<70	<70	<80 J	3,000 J	<1,000 J	<80	<70
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	1,000 J	<600 J	<40	<40
Caprolactam	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
Carbazole	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
Chrysene	ug/kg	50	<40	<40	<40	<40	<40	<40	<40	<40	180	3,000 J	800 J	90	<40
Dibenz(a,h)anthracene	ug/kg	<80	<80	<70	<70	<70	<70	<80	<70	<70	<80	<2,000 J	<1,000 J	<80	<70
Dibenzofuran	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
Diethyl phthalate	ug/kg	<80	<80	<70	<70	<70	<70	<80	<70	<70	<80	<2,000 J	<1,000 J	<80	<70
Dimethyl phthalate	ug/kg	<70 B	<80 B	<110 B	<60 B	<40 J	<40	50	<90 B	<160 B	<70 B	<1,000 J	<600 J	<40	<40
Di-n-butylphthalate (DBP)	ug/kg	<80	<80	<70	<70	<70	<70	<80	<70	<70	<80	<2,000 J	<1,000 J	<80	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<80 J	<80 J	<70 J	<70 J	<70 J	<70 J	<80 J	<70	<70	<80 J	<2,000 J	<1,000 J	<80	<70
Fluoranthene	ug/kg	110	<40	<40	<40	<40	80	<40	<40	<40	310	7,000 J ^b	1,700 J	150	<40
Fluorene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	7,000 J ^b	2,700 J	320	<40
Hexachlorobenzene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
Hexachlorobutadiene	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40 J	<1,000 J	<600 J	<40	<40
Hexachlorocyclopentadiene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
Hexachloroethane	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40 J	<1,000 J	<600 J	<40	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	100	<1,000 J	<600 J	<40	<40
Isophorone	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40 J	<1,000 J	<600 J	<40	<40
Nitrobenzene	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40 J	<1,000 J	<600 J	<40	<40
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
N-Nitrosodiphenylamine	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
Pentachlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
Phenanthrene	ug/kg	70	<40	<40	<40	<40	50	<40	<40	<40	130	8,000 J ^b	4,200 J ^b	570	<40
Phenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<1,000 J	<600 J	<40	<40
Pyrene	ug/kg	100	<40	<40	<40	<40	80	<40	<40	<40	270	6,000 J	2,100 J	190	<40

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A5.2-NO150*	SB-A5.2-NO150*	SB-A5.2-NO150*	SB-A5.2-NO150*	SB-A5.2-NO150*	SB-A5.2-NO156*	SB-A5.2-NO156*	SB-A5.2-NO156*	SB-A5.2-NO156*	SB-A5.2-NO157*	SB-A5.2-NR128*	SB-A5.2-NR128*	SB-A5.2-NR128*	SB-A5.2-NR128*
		1 - 2	7 - 8	12 - 13	18 - 19	24 - 25	1 - 2	6 - 7	15 - 16	21 - 22	0 - 1	1 - 2	3 - 4	8 - 9	13 - 14
		05/08/12	05/08/12	05/08/12	05/08/12	05/08/12	05/09/12	05/09/12	05/09/12	05/09/12	05/08/12	05/01/12	05/01/12	05/01/12	05/02/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<130 J	<50 J	<8	<3
Aroclor-1221 (PCB-1221)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<130 J	<50 J	<8	<3
Aroclor-1232 (PCB-1232)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<130 J	<50 J	<8	<3
Aroclor-1242 (PCB-1242)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	2,400 J	500 J	100 Y	<3
Aroclor-1248 (PCB-1248)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<130 J	<50 J	<8	<3
Aroclor-1254 (PCB-1254)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<130 J	<50 J	<8	<3
Aroclor-1260 (PCB-1260)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<4	<130 J	<50 J	<8	<3
Total PCBs	ug/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,400 J	500 J	100	ND
Inorganics															
Antimony	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20
Arsenic	mg/kg	0.21	0.15	0.86	2.25	2.11	0.49	0.68	2.52	5.12	1.02	0.90	1.15	0.34	1.11
Barium	mg/kg	5.84	6.08	27.6	24.8	21.2	4.74	4.06	19.6	20.9	24.6	27.7	9.81	34.0	21.9
Beryllium	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20
Boron	mg/kg	<4.1	<4.0	<4.0	<4.1	<4.1	<3.9	<4.0	<4.0	<4.0	<4.2	<2.0	<2.0	<2.0	<2.0
Cadmium	mg/kg	<0.10	<0.10	0.11	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.13	0.30	<0.10	<0.10	<0.10
Chromium	mg/kg	0.83	0.93	2.92	2.39	1.99	1.02	1.90	2.12	2.12	3.30	6.53	1.62	2.49	3.14
Cobalt	mg/kg	3.81 J	0.78 J	2.74 J	2.63 J	2.07 J	1.01	0.82	1.84	2.36	3.02 J	1.68	1.42	1.01	2.38
Copper	mg/kg	1.85	1.54	10.2	7.36	6.39	1.21	2.48	5.36	8.11	6.88	41.2 ⁱ	9.10	5.55	9.09
Lead	mg/kg	3.93 J	1.20 J	5.25 J	3.97 J	3.44 J	1.43	2.30	3.25	4.14	25.4 J ⁱ	30.6 ⁱ	6.09	5.79	3.54
Manganese	mg/kg	87.9	65.2	259	229	217	120	70.0	197	205	248	204	205	47.3	236
Mercury	mg/kg	<0.006	<0.0058	0.0086	0.0075	0.0072	<0.0054	<0.0057	0.0110	0.0074	0.0296	0.0278	0.0103	0.0206	0.0102
Nickel	mg/kg	2.54	2.67	8.78	8.32	7.26	4.55	2.55	6.58	7.10	7.67	13.2	4.57	2.08	7.41
Selenium	mg/kg	<0.20	<0.20	<0.20	0.25	<0.20	<0.20	<0.20	0.25	0.22	<0.21	<0.20	<0.20	<0.20	<0.20
Silver	mg/kg	0.12 J	<0.10 J	<0.10 J	<0.10 J	<0.10 J	<0.10	<0.10	<0.10	<0.10	<0.10 J	<0.10	<0.10	<0.10	<0.10
Thallium	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20
Vanadium	mg/kg	0.61 J	1.31 J	4.58 J	3.92 J	3.35 J	1.13	1.84	3.24	3.88	3.98 J	4.12	2.58	5.43	4.72
Zinc	mg/kg	5.94	2.69	13.8	12.6	15.2	1.93	4.30	8.64	10.6	17.2	38.9	14.3	9.67	10.1
Miscellaneous															
Total solids	%	84	85	89	91	91	93	86	92	92	85	92	87	81	89

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-NR128* 17 - 18 05/02/12	SB-A5.2-NT111* 1 - 2 05/03/12	SB-A5.2-NT111* 4 - 5 05/03/12	SB-A5.2-NT111* 7 - 8 05/03/12	SB-A5.2-NT111* 12 - 13 05/03/12	SB-A5.2-NT111* 17 - 18 05/03/12	SB-A5.2-NT111* 19 - 20 05/03/12	SB-A5.2-NU107 1.5 - 2.5 05/22/12	SB-A5.2-NU107 8 - 9 05/22/12	SB-A5.2-NU107 12 - 13 05/22/12	SB-A5.2-NU107 15.5 - 16.5 05/22/12	SB-A5.2-NU132* 1 - 2 04/30/12	SB-A5.2-NU132* 2 - 3 04/30/12	SB-A5.2-NV133* 1 - 2 04/30/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
1,2-Dichlorobenzene	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
1,4-Dichlorobenzene	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
2-Hexanone	ug/kg	<770	<750	<800	<760	<790	<760	<520 T [<830]	<820	<820	<800	<800 [<860]	<780	<760	<770
Acetone	ug/kg	<1,900	4,200	<2,000	<1,900	<2,000	<1,900	<520 T [<2,100]	<2,000	<2,000	<2,000	<2,000 [<2,100]	<2,000	<1,900	<1,900
Bromodichloromethane	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
Bromoform	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	<50 T	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
Carbon tetrachloride	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
Chlorobenzene	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
Chloroform (Trichloromethane)	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
Chloromethane (Methyl chloride)	ug/kg	<190	<190	<200	<190	<200	<190	<50 T [<210]	<200	<200	<200	<200 [<210]	<200	<190	<190
cis-1,3-Dichloropropene	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	<50 T	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	<520 T	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
Styrene	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
trans-1,3-Dichloropropene	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	<50 T	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
1,4-Dioxane	ug/kg	<770	<750	<800	<760	<790	<760	<830	<820	<820	<800	<800 [<860]	<780	<760	<770
1,1,1-Trichloroethane	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	1,000	15 J	<80 [2,400]	<78	<76	<77
1,1,2,2-Tetrachloroethane	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
1,1,2-Trichloroethane	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
1,1-Dichloroethane	ug/kg	<77	<75	<80	<76	660	<76	<50 T [<83]	<82	850	<80	340 [2,000]	<78	<76	<77
1,1-Dichloroethene	ug/kg	<77	<75	<80	<76	260 ^a	<76	<50 T [<83]	<82	95	<80	280 [200] ^a	<78	<76	<77
1,2-Dichloroethane	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
cis-1,2-Dichloroethene	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
trans-1,2-Dichloroethene	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
Trichloroethene	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
Tetrachloroethene	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [38 J]	<78	<76	<77
Vinyl chloride	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
Chloroethane	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
Benzene	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
Ethylbenzene	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
Toluene	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
o-Xylene	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
m&p-Xylene	ug/kg	<150	<150	<160	<150	<160	<150	<100 T [<170]	<160	<160	<160	<160 [<170]	<160	<150	<150
Xylene (total)	ug/kg	<227	<225	<240	<226	<239	<226	<253	<242	<242	<240	<240 [<256]	<238	<226	<227
Methyl tert butyl ether (MTBE)	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<770	<750	<800	<760	<790	<760	<520 T [<830]	<820	<820	<800	<800 [<860]	<780	<760	<770
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<770	<750	<800	<760	<790	<760	<520 T [<830]	<820	<820	<800	<800 [<860]	<780	<760	<770
1,2,4-Trichlorobenzene	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	30 J	<77
1,2,4-Trimethylbenzene	ug/kg	<77	<75	<80	<76	<79	<76	<83	<82	<82	<80	<80 [<86]	<78	<76	<77
1,3,5-Trimethylbenzene	ug/kg	<77	<75	<80	<76	<79	<76	<83	<82	<82	<80	<80 [<86]	<78	<76	<77
1,2-Dichloropropane	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
1,3-Dichlorobenzene	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	28 J	<77
Cyclohexane	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
Methyl cyclohexane	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
Dibromochloromethane	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
Isopropyl benzene	ug/kg	<77	<75	<80	<76	<79	<76	<50 T [<83]	<82	<82	<80	<80 [<86]	<78	<76	<77
Naphthalene	ug/kg	<77	<75	<80	<76	<79	<76	110	<82	<82	<80	<80 [<86]	<78	<76	<77

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-NR128* 17 - 18 05/02/12	SB-A5.2-NT111* 1 - 2 05/03/12	SB-A5.2-NT111* 4 - 5 05/03/12	SB-A5.2-NT111* 7 - 8 05/03/12	SB-A5.2-NT111* 12 - 13 05/03/12	SB-A5.2-NT111* 17 - 18 05/03/12	SB-A5.2-NT111* 19 - 20 05/03/12	SB-A5.2-NU107 1.5 - 2.5 05/22/12	SB-A5.2-NU107 8 - 9 05/22/12	SB-A5.2-NU107 12 - 13 05/22/12	SB-A5.2-NU107 15.5 - 16.5 05/22/12	SB-A5.2-NU132* 1 - 2 04/30/12	SB-A5.2-NU132* 2 - 3 04/30/12	SB-A5.2-NV133* 1 - 2 04/30/12
Units															
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<700	<40 J	<7,000 J [<8,000 J]	<1,000 J	<40 J	<40 J	<40 J	<40 J
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
2,4-Dichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
2,4-Dimethylphenol	ug/kg	<40	<40	<40	240	<40	<40	<700	<40	144,000 J [178,000 J] ^{at}	<1,000 J	<40	<40	<40	<40
2,4-Dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
2-Chloronaphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
2-Chlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
2-Methylnaphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
2-Methylphenol	ug/kg	<40	<40	<40	50	<40	<40	<700	<40	<7,000 J [11,000 J]	<1,000 J	<40	<40	<40	<40
2-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
2-Nitrophenol	ug/kg	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
3&4-Methylphenol	ug/kg	<70	<80	<70	370	<80	<80	<1,000	<70	110,000 J [170,000 J] ^{at}	<2,000 J	<70	<80	<80	<70
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
Naphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
3-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
4-Chloroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
4-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
4-Nitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
Anthracene	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
Acenaphthene	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
Acenaphthylene	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
Acetophenone	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
Atrazine	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
Benzaldehyde	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40 J	<40 J	<40 J
Benzo(a)anthracene	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	130	<40
Benzo(a)pyrene	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	120	<40
Benzo(b)fluoranthene	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	260 J	<40
Benzo(g,h,i)perylene	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
Benzo(k)fluoranthene	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	270 J	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40 J	<7,000 J [<8,000 J]	<1,000 J	<40 J	<40	<40	<40
bis(2-Chloroethyl)ether	ug/kg	<40 J	<40	<40	<40	<40	<40	<700	<40 J	<7,000 J [<8,000 J]	<1,000 J	<40 J	<40 J	<40 J	<40 J
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70	<80	<70	<80	<80	<80	<1,000	<70	<10,000 J [<20,000 J]	<2,000 J	<70	<80	3,080	<70
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
Caprolactam	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
Carbazole	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
Chrysene	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	150	<40
Dibenz(a,h)anthracene	ug/kg	<70	<80	<70	<80	<80	<80	<1,000	<70	<10,000 J [<20,000 J]	<2,000 J	<70	<80	<80	<70
Dibenzofuran	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
Diethyl phthalate	ug/kg	<70	<80	<70	<80	<80	<80	<1,000	<70	<10,000 J [<20,000 J]	<2,000 J	<70	<80	<80	<70
Dimethyl phthalate	ug/kg	<40	<40	<40	<40	<40	<40	<700	<60 B	<7,000 J [<8,000 J]	<1,000 J	<60 B	<40	<40	<40
Di-n-butylphthalate (DBP)	ug/kg	<70	<80	<70	<80	<80	<80	<1,000	<70	<10,000 J [<20,000 J]	<2,000 J	<70	<80	<80	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<70	<80	<70	<80	<80	<80	<1,000	<70	<10,000 J [<20,000 J]	<2,000 J	<70	<80	<80	<70
Fluoranthene	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	270	<40
Fluorene	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
Hexachlorobenzene	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
Hexachlorobutadiene	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
Hexachlorocyclopentadiene	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
Hexachloroethane	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
Isophorone	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
Nitrobenzene	ug/kg	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<700	<40 J	<7,000 J [<8,000 J]	<1,000 J	<40 J	<40 J	<40 J	<40 J
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
N-Nitrosodiphenylamine	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
Pentachlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
Phenanthrene	ug/kg	<40	<40	<40	<40	<40	<40	2,200 ^b	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	<40	<40
Phenol	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [28,000 J]	<1,000 J	<40	<40	<40	<40
Pyrene	ug/kg	<40	<40	<40	<40	<40	<40	<700	<40	<7,000 J [<8,000 J]	<1,000 J	<40	<40	270	<40

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A5.2-NR128*	SB-A5.2-NT111*	SB-A5.2-NT111*	SB-A5.2-NT111*	SB-A5.2-NT111*	SB-A5.2-NT111*	SB-A5.2-NT111*	SB-A5.2-NU107	SB-A5.2-NU107	SB-A5.2-NU107	SB-A5.2-NU107	SB-A5.2-NU132*	SB-A5.2-NU132*	SB-A5.2-NV133*
		17 - 18	1 - 2	4 - 5	7 - 8	12 - 13	17 - 18	19 - 20	1.5 - 2.5	8 - 9	12 - 13	15.5 - 16.5	1 - 2	2 - 3	1 - 2
		05/02/12	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12	05/22/12	05/22/12	05/22/12	05/22/12	04/30/12	04/30/12	04/30/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	<3	<3	<3	<3	<3	<3	<50	<3	<3 [<3]	<6 J	<3	<3	<30	<3
Aroclor-1221 (PCB-1221)	ug/kg	<3	<3	<3	<3	<3	<3	<50	<3	<3 [<3]	<6 J	<3	<3	<30	<3
Aroclor-1232 (PCB-1232)	ug/kg	<3	<3	<3	<3	<3	<3	<50	<3	<3 [<3]	<6 J	<3	<3	<30	<3
Aroclor-1242 (PCB-1242)	ug/kg	<3	<3	<3	<3	<3	<3	<50	<3	<3 [<3]	<6 J	<3	<3	300 Q	<3
Aroclor-1248 (PCB-1248)	ug/kg	<3	<3	<3	<3	<3	<3	<50	<3	<3 [<3]	<6 J	<3	<3	<30	<3
Aroclor-1254 (PCB-1254)	ug/kg	<3	<3	<3	<3	<3	<3	<50	<3	10 [5]	<6 J	<3	<3	<30	<3
Aroclor-1260 (PCB-1260)	ug/kg	<3	<3	<3	<3	<3	<3	<50	<3	<3 [<3]	<6 J	<3	<3	<30	<3
Total PCBs	ug/kg	ND	ND	ND	ND	ND	ND	ND	ND	10 [5]	ND	ND	ND	300	ND
Inorganics															
Antimony	mg/kg	<0.20	<0.21	<0.20	<0.20	<0.21	<0.21	<0.20	<0.20	<0.20 [<0.21]	<0.21	<0.20	<0.21	<0.21	<0.20
Arsenic	mg/kg	1.42	0.99	1.02	0.47	1.50	1.92	1.31	0.70	1.03 [0.77]	0.40	0.79	0.49	0.55	0.52
Barium	mg/kg	15.1	18.3	37.6	5.88	15.2	16.2	8.95	9.21	13.6 [10.3]	13.7	9.39	7.81	7.79	32.3
Beryllium	mg/kg	<0.20	<0.21	<0.2	<0.2	<0.21	0.33	<0.2	<0.20	<0.20 [<0.21]	<0.21	<0.20	<0.21	<0.21	<0.20
Boron	mg/kg	<2.0	<4.3	6.32	<4.1	<4.2	<4.3	<4.1	<4.1	<4.0 [<4.2]	<4.3	<4.0	<4.3	<4.3	<4.1
Cadmium	mg/kg	<0.10	<0.10	<0.10	<0.10	0.15	0.30	<0.10	<0.10	<0.10 [<0.1]	<0.10	<0.10	<0.10	0.13	0.13
Chromium	mg/kg	2.06	5.05	4.47	1.08	4.33	2.39	1.92	1.34	2.95 [2.2]	2.14	1.97	1.30	3.56	2.42
Cobalt	mg/kg	1.50	25.4 ^{abi}	4.05	0.93	3.05	2.54	1.93	2.20	1.87 [0.98]	1.60	1.70	2.82	1.39	1.25
Copper	mg/kg	7.03	8.10	4.55	2.46	11.3	9.08	5.96	1.65	5.34 [5.84]	3.48	5.85	1.65	12.2	8.36
Lead	mg/kg	3.21	2.92	4.07	1.34	5.23	4.81	2.66	1.86	2.59 [2.85]	2.62	3.07	1.67	10.0	17.5
Manganese	mg/kg	178	148	329	87.8	269	251	155	151	146 [170]	228	209	214	145	163
Mercury	mg/kg	0.0073	<0.0063	0.0122	0.0081	0.0147	0.0127	0.0076	<0.0056	<0.0056 [<0.0056]	<0.0059	0.0069	<0.0057	0.0160	0.0197
Nickel	mg/kg	5.89	6.77	8.84	2.42	9.30	7.42	6.15	3.76	4.89 [4.37]	5.28	6.83	4.01	7.56	2.82
Selenium	mg/kg	0.21	<0.21	<0.20	<0.20	0.27	0.30	<0.20	<0.20	<0.20 [<0.21]	<0.21	0.32	<0.21	<0.21	<0.20
Silver	mg/kg	<0.10	3.31 ^{bi}	<0.10	<0.10	<0.10	0.21	<0.10	0.28	<0.10 [<0.1]	<0.10	<0.10	0.10	<0.10	<0.10
Thallium	mg/kg	<0.20	<0.21	<0.20	<0.20	<0.21	0.21	<0.20	<0.20	<0.20 [<0.21]	<0.21	<0.20	<0.21	<0.21	<0.20
Vanadium	mg/kg	2.95	2.45	6.52	1.93	7.84	4.82	3.53	2.00	4.73 [4.74]	3.68	3.19	1.32	2.14	5.46
Zinc	mg/kg	10.9	7.54	9.54	3.34	18.0	12.4	10.1	2.59	9.02 [6.17]	8.91	8.46	2.19	19.7	17.7
Miscellaneous															
Total solids	%	91	80	90	86	85	87	93	89	90 [87]	83	91	88	82	89

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-NV133* 4 - 5 04/30/12	SB-A5.2-NV133* 6 - 7 04/30/12	SB-A5.2-NV133* 9 - 10 04/30/12	SB-A5.2-NV133* 12 - 13 04/30/12	SB-A5.2-NV133* 18 - 19 04/30/12	SB-A5.2-NV133* 23 - 24 04/30/12	SB-A5.2-NV133* 28 - 29 04/30/12	SB-A5.2-NV124* 1 - 2 05/01/12	SB-A5.2-NV124* 4 - 5 05/01/12	SB-A5.2-NV124* 7 - 8 05/01/12	SB-A5.2-NV124* 11 - 12 05/01/12	SB-A5.2-NV124* 16 - 17 05/01/12	SB-A5.2-NV124* 22 - 23 05/01/12	SB-A5.2-NY92 1.6 - 2 06/04/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
1,2-Dichlorobenzene	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
1,4-Dichlorobenzene	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
2-Hexanone	ug/kg	<760	<750	<710	<680	<750	<720	<770	<720	<790	NA	<750	<780	<740	<630
Acetone	ug/kg	<1,900	<1,900	<1,800	<1,700	<1,900	<1,800	<1,900	<1,800	<2,000	NA	<1,900	<1,900	<1,800	<630
Bromodichloromethane	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
Bromoform	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60
Carbon disulfide	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
Carbon tetrachloride	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
Chlorobenzene	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
Chloroform (Trichloromethane)	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
Chloromethane (Methyl chloride)	ug/kg	<190	<190	<180	<170	<190	<180	<190	<180	<200	NA	<190	<190	<180	<60
cis-1,3-Dichloropropene	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,810
Methylene chloride	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
Styrene	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
trans-1,3-Dichloropropene	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60
Trifluorotrichloroethane (Freon 113)	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
1,4-Dioxane	ug/kg	<760	<750	<710	<680	<750	<720	<770	<720	<790	NA	<750	<780	<740	<6,000
1,1,1-Trichloroethane	ug/kg	140	<75	160	<68	<75	<72	<77	<72	150	NA	<75	<78	<74	8,530 ^{ab}
1,1,2,2-Tetrachloroethane	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
1,1,2-Trichloroethane	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
1,1-Dichloroethane	ug/kg	190	190	1,600	<68	<75	<72	<77	<72	7,800	NA	<75	<78	<74	730
1,1-Dichloroethene	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	100
1,2-Dichloroethane	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
cis-1,2-Dichloroethene	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
trans-1,2-Dichloroethene	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
Trichloroethene	ug/kg	78	<75	<71	67 J	<75	<72	<77	<72	88	NA	<75	<78	<74	<60
Tetrachloroethene	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	85	NA	<75	<78	<74	4,040 ^{ab}
Vinyl chloride	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
Chloroethane	ug/kg	<76	180 J	550 J	130 J	<75	<72	<77	<72	540 J	NA	340 J	110 J	<74	<60
Benzene	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
Ethylbenzene	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
Toluene	ug/kg	58 J	<75	<71	<68	<75	<72	<77	<72	450	NA	<75	<78	<74	<60
o-Xylene	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
m&p-Xylene	ug/kg	<150	<150	<140	<140	<150	<140	<150	<140	<160	NA	<150	<160	<150	<100
Xylene (total)	ug/kg	<226	<225	<211	<208	<225	<212	<227	<212	<239	NA	<225	<238	<224	<160
Methyl tert butyl ether (MTBE)	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<760	<750	<710	<680	<750	<720	<770	<720	<790	NA	<750	<780	<740	<630
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<760	<750	<710	<680	<750	<720	<770	<720	<790	NA	<750	<780	<740	<630
1,2,4-Trichlorobenzene	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
1,2,4-Trimethylbenzene	ug/kg	31 J	<75	<71	<68	<75	<72	<77	<72	81	NA	<75	<78	<74	NA
1,3,5-Trimethylbenzene	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	NA
1,2-Dichloropropane	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
1,3-Dichlorobenzene	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
Cyclohexane	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
Methyl cyclohexane	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
Dibromochloromethane	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	320	NA	<75	<78	<74	<60
Isopropyl benzene	ug/kg	<76	<75	<71	<68	<75	<72	<77	<72	<79	NA	<75	<78	<74	<60
Naphthalene	ug/kg	38 J	<75	<71	<68	<75	<72	<77	<72	120	NA	<75	<78	<74	NA

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-NV133* 4 - 5 04/30/12	SB-A5.2-NV133* 6 - 7 04/30/12	SB-A5.2-NV133* 9 - 10 04/30/12	SB-A5.2-NV133* 12 - 13 04/30/12	SB-A5.2-NV133* 18 - 19 04/30/12	SB-A5.2-NV133* 23 - 24 04/30/12	SB-A5.2-NV133* 28 - 29 04/30/12	SB-A5.2-NV124* 1 - 2 05/01/12	SB-A5.2-NV124* 4 - 5 05/01/12	SB-A5.2-NV124* 7 - 8 05/01/12	SB-A5.2-NV124* 11 - 12 05/01/12	SB-A5.2-NV124* 16 - 17 05/01/12	SB-A5.2-NV124* 22 - 23 05/01/12	SB-A5.2-NY92 1.6 - 2 06/04/12
	Units														
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<800
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<200 J	<100 J	<40 J	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
2,4,6-Trichlorophenol	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
2,4-Dichlorophenol	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
2,4,5-Trichlorophenol	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
2,4-Dimethylphenol	ug/kg	<200	<100	<40	70	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
2,4-Dinitrophenol	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
2,4-Dinitrotoluene	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
2,6-Dinitrotoluene	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
2-Chloronaphthalene	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
2-Chlorophenol	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
2-Methylnaphthalene	ug/kg	200	<100	<40	<40	<40	<40	<40	<40	700 J	<40	<40	<40	<40	<800
2-Methylphenol	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
2-Nitroaniline	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
2-Nitrophenol	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
3&4-Methylphenol	ug/kg	<300	<200	<70	<80	<70	<70	<80	<70	<1,000 J	<80	<70	<70	<80	<2,000
3,3'-Dichlorobenzidine	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
Naphthalene	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
3-Nitroaniline	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
4-Bromophenyl phenyl ether	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
4-Chloro-3-methylphenol	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
4-Chloroaniline	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
4-Chlorophenyl phenyl ether	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
4-Nitroaniline	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
4-Nitrophenol	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
Anthracene	ug/kg	500	<100	<40	<40	<40	<40	<40	200	1,900 J	40	<40	<40	<40	1,500
Acenaphthene	ug/kg	<200	<100	<40	<40	<40	<40	<40	50	<500 J	<40	<40	<40	<40	1,100
Acenaphthylene	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
Acetophenone	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
Atrazine	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
Benzaldehyde	ug/kg	<200 J	<100 J	<40 J	<40	<40 J	<40 J	<40 J	<40	<500 J	<40	<40	<40	<40	<800
Benzo(a)anthracene	ug/kg	<200	<100	<40	<40	<40	<40	<40	700	<500 J	<40	<40	<40	<40	800
Benzo(a)pyrene	ug/kg	<200	<100	<40	<40	<40	<40	<40	750	<500 J	<40	<40	<40	<40	<800
Benzo(b)fluoranthene	ug/kg	<200	<100	<40	<40	<40	<40	<40	1,420 J	<500 J	<40	<40	<40	<40	900 J
Benzo(g,h,i)perylene	ug/kg	<200	<100	<40	<40	<40	<40	<40	300	<500 J	<40	<40	<40	<40	<800
Benzo(k)fluoranthene	ug/kg	<200	<100	<40	<40	<40	<40	<40	1,440 J	<500 J	<40	<40	<40	<40	900 J
Biphenyl (1,1-Biphenyl)	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	600 J	<40	<40	<40	<40	<800
bis(2-Chloroethoxy)methane	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
bis(2-Chloroethyl)ether	ug/kg	<200 J	<100 J	<40 J	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<300	<200	<70	<80	<70	<70	<80	<190 B	<1,000 J	<80	<70	<70	<80	<2,000
Butyl benzylphthalate (BBP)	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
Caprolactam	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
Carbazole	ug/kg	<200	<100	<40	<40	<40	<40	<40	130	<500 J	<40	<40	<40	<40	<800
Chrysene	ug/kg	<200	<100	<40	<40	<40	<40	<40	760	600 J	<40	<40	60	<40	1,000
Dibenz(a,h)anthracene	ug/kg	<300	<200	<70	<80	<70	<70	<80	120	<1,000 J	<80	<70	<70	<80	<2,000
Dibenzofuran	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
Diethyl phthalate	ug/kg	<300	<200	<70	<80	<70	<70	<80	<70	<1,000 J	<80	<70	<70	<80	<2,000
Dimethyl phthalate	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
Di-n-butylphthalate (DBP)	ug/kg	<300	<200	<70	<80	<70	<70	<80	<70	<1,000 J	<80	<70	<70	<80	<2,000
Di-n-octyl phthalate (DnOP)	ug/kg	<300	<200	<70	<80	<70	<70	<80	<70	<1,000 J	<80	<70	<70	<80	<2,000
Fluoranthene	ug/kg	400	100	<40	<40	<40	<40	<40	1,430	1,300 J	40	<40	<40	<40	3,100
Fluorene	ug/kg	3,900	400	<40	<40	<40	<40	<40	60	12,400 J ^b	160	<40	<40	<40	23,300 ^b
Hexachlorobenzene	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
Hexachlorobutadiene	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
Hexachlorocyclopentadiene	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
Hexachloroethane	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
Indeno(1,2,3-cd)pyrene	ug/kg	<200	<100	<40	<40	<40	<40	<40	300	<500 J	<40	<40	<40	<40	<800
Isophorone	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
Nitrobenzene	ug/kg	<200 J	<100 J	<40 J	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
N-Nitrosodi-n-propylamine	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
N-Nitrosodiphenylamine	ug/kg	800	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
Pentachlorophenol	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
Phenanthrene	ug/kg	3,700 ^b	<100	<40	<40	<40	<40	<40	700	11,700 J ^b	210	<40	<40	<40	15,600 ^b
Phenol	ug/kg	<200	<100	<40	<40	<40	<40	<40	<40	<500 J	<40	<40	<40	<40	<800
Pyrene	ug/kg	400	100	<40	<40	<40	<40	<40	1,250	1,700 J	50	<40	<40	<40	2,700

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A5.2-NV133*	SB-A5.2-NV133*	SB-A5.2-NV133*	SB-A5.2-NV133*	SB-A5.2-NV133*	SB-A5.2-NV133*	SB-A5.2-NV133*	SB-A5.2-NW124*	SB-A5.2-NW124*	SB-A5.2-NW124*	SB-A5.2-NW124*	SB-A5.2-NW124*	SB-A5.2-NW124*	SB-A5.2-NY92
		4 - 5	6 - 7	9 - 10	12 - 13	18 - 19	23 - 24	28 - 29	1 - 2	4 - 5	7 - 8	11 - 12	16 - 17	22 - 23	1.6 - 2
		04/30/12	04/30/12	04/30/12	04/30/12	04/30/12	04/30/12	04/30/12	05/01/12	05/01/12	05/01/12	05/01/12	05/01/12	05/01/12	06/04/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	<3	<10	<3	<3	<5 J	<3	<3	<3	<3,000 J	<8 [<8]	<3	<3	<3	<3
Aroclor-1221 (PCB-1221)	ug/kg	<3	<10	<3	<3	<5 J	<3	<3	<3	<3,000 J	<8 [<8]	<3	<3	<3	<3
Aroclor-1232 (PCB-1232)	ug/kg	<3	<10	<3	<3	<5 J	<3	<3	<3	<3,000 J	<8 [<8]	<3	<3	<3	<3
Aroclor-1242 (PCB-1242)	ug/kg	40 Q	<10	<3	<3	<5 J	<3	<3	<3	22,000 J ^f	100 [100]	<20	<3	<3	<3
Aroclor-1248 (PCB-1248)	ug/kg	<3	<10	<3	<3	<5 J	<3	<3	<3	<3,000 J	<8 [<8]	<3	<3	<3	<3
Aroclor-1254 (PCB-1254)	ug/kg	<3	10	<3	<3	<5 J	<3	<3	<3	<3,000 J	<8 [<8]	<3	<3	<3	30
Aroclor-1260 (PCB-1260)	ug/kg	<3	<10	<3	<3	<5 J	<3	<3	<20	<3,000 J	<8 [<8]	<3	<3	<3	<3
Total PCBs	ug/kg	40	10	ND	ND	ND	ND	ND	ND	22,000 J ^f	100 [100]	ND	ND	ND	30
Inorganics															
Antimony	mg/kg	<0.21	<0.22	<0.20	<0.22	<0.20	<0.21	<0.21	<0.20	<0.20	<0.22 [<0.23]	<0.21	<0.20	<0.20	<0.21
Arsenic	mg/kg	0.40	0.57	0.99	0.40	0.99	1.79	1.77	1.10	0.95	1.29 [1.52]	0.95	1.70	1.61	1.00
Barium	mg/kg	30.1	44.1	20.0	17.2	18.4	19.1	28.6	22.9	22.1	26.7 [27.3]	26.0	34.1	9.07	16.0
Beryllium	mg/kg	<0.21	<0.22	<0.20	<0.22	<0.20	<0.21	<0.21	<0.20	<0.20	<0.22 [<0.23]	<0.21	<0.20	<0.20	<0.21
Boron	mg/kg	<4.3	<4.4	<4.1	<4.4	<4.1	<4.2	<4.2	<4	<4.1	<4.5 [<4.6]	<4.3	<2.0	<2.0	<4.2
Cadmium	mg/kg	0.14	<0.11	0.10	<0.11	0.32	<0.10	<0.10	0.10	0.10	0.11 [<0.11]	<0.10	0.12	<0.10	<0.10
Chromium	mg/kg	2.62	3.40	4.16	2.22	1.90	2.75	3.19	2.51	2.96	4.12 [3.17]	3.04	2.78	0.90	3.69
Cobalt	mg/kg	1.56	2.22	4.35	1.22	1.62	2.24	2.53	1.59	1.33	3.47 [2.15]	2.26	2.75	0.75	27.3 ^{abi}
Copper	mg/kg	10.6	9.73	11.1	5.46	8.95	6.26	8.52	4.50	6.74	7.51 [7.05]	8.55	10.3	3.03	5.88
Lead	mg/kg	19.5	14.6	4.52	2.39	3.00	2.45	3.69	8.38	4.89	5.72 [5.42]	4.00	4.65	1.83	4.35
Manganese	mg/kg	227	303	271	189	308	174	240	172	91.7	294 [217]	234	282	116	160
Mercury	mg/kg	0.0191	0.0155	0.0097	<0.0056	0.0056	0.0074	<0.0058	0.0138	0.0056	0.0144 [0.0166]	<0.0056	0.0108	<0.0055	0.0089
Nickel	mg/kg	3.83	5.51	11.3	5.56	5.87	5.74	7.70	3.86	4.83	7.04 [5.4]	7.46	8.30	2.77	7.52
Selenium	mg/kg	<0.21	<0.22	0.44 ^{bi}	<0.22	<0.20	<0.21	<0.21	<0.20	<0.20	<0.22 [<0.23]	<0.21	0.24	<0.20	<0.21
Silver	mg/kg	<0.10	<0.11	<0.10	<0.11	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11 [<0.11]	<0.10	<0.10	<0.10	4.31 ^{bi}
Thallium	mg/kg	<0.21	<0.22	<0.20	<0.22	<0.20	<0.21	<0.21	<0.20	<0.20	<0.22 [<0.23]	<0.21	<0.20	<0.20	<0.21
Vanadium	mg/kg	3.71	4.56	5.14	2.92	2.78	2.74	4.20	3.34	5.35	6.25 [6.42]	4.78	4.85	1.64	5.22
Zinc	mg/kg	16.3	16.4	13.6	5.91	34.4	11.6	9.78	16.1	10.7	12.9 [10.4]	11.4	11.6	4.29	10.1
Miscellaneous															
Total solids	%	86	86	90	85	92	89	86	91	93	86 [83]	89	89	87	88

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-NY92 3 - 4 06/04/12	SB-A5.2-NY92 8 - 9 06/04/12	SB-A5.2-NZ128* 1 - 2 05/01/12	SB-A5.2-NZ128* 4 - 5 05/01/12	SB-A5.2-NZ128* 6.5 - 7.5 05/01/12	SB-A5.2-NZ128* 11 - 12 05/01/12	SB-A5.2-NZ128* 16 - 17 05/01/12	SB-A5.2-NZ128* 20 - 21 05/01/12	SB-A5.2-NZ128* 25 - 26 05/01/12	SB-A5.2-NZ138* 1 - 2 05/01/12	SB-A5.2-NZ144* 1 - 2 05/04/12	SB-A5.2-NZ144* 6 - 7 05/04/12	SB-A5.2-NZ144* 12 - 13 05/04/12	SB-A5.2-NZ144* 18 - 19 05/04/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
1,2-Dichlorobenzene	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
1,4-Dichlorobenzene	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
2-Hexanone	ug/kg	<640 [<630]	<700	<690	<610	<760	<710	<620	<740	<740	<850	<760 [<720]	<740	<790	<710
Acetone	ug/kg	<640 [<630]	<700	<690	<610	<760	<710	<620	<1,800	<1,900	<2,100	<1,900 [<1,800]	<1,900	<2,000	<1,800
Bromodichloromethane	ug/kg	<60 [<60]	<70	<70	54 J	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
Bromoform	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
Bromomethane (Methyl bromide)	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
Carbon tetrachloride	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
Chlorobenzene	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
Chloroform (Trichloromethane)	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
Chloromethane (Methyl chloride)	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<180	<190	<210	<190 [<180]	<190	<200	<180
cis-1,3-Dichloropropene	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
Dichlorodifluoromethane (CFC-12)	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	<640 [<630]	<700	<690	<610	<760	<710	<620	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
Styrene	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
trans-1,3-Dichloropropene	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
Trichlorofluoromethane (CFC-11)	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
1,4-Dioxane	ug/kg	<6,000 [<6,000]	<7,000	<720	<740	<720	<780	<800	<740	<740	<850	<760 J [<720 J]	<740 J	<790 J	<710 J
1,1,1-Trichloroethane	ug/kg	3,510 [3,310] ^b	130	<70	<60	<80	<70	<60	<74	<74	160	<76 [<72]	<74	<79	<71
1,1,2,2-Tetrachloroethane	ug/kg	<60 [<60]	<70	<70	66 J	35 J	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
1,1,2-Trichloroethane	ug/kg	<60 [<60]	<70	<70	100	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
1,1-Dichloroethane	ug/kg	250 [260]	<70	<70	200	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
1,1-Dichloroethene	ug/kg	120 [260]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
1,2-Dichloroethane	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
cis-1,2-Dichloroethene	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
trans-1,2-Dichloroethene	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
Trichloroethene	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
Tetrachloroethene	ug/kg	2,110 [2,280 J] ^{ab}	140 ^a	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
Vinyl chloride	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
Chloroethane	ug/kg	<60 [<60]	<70	<70	150	220	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
Benzene	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
Ethylbenzene	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
Toluene	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
o-Xylene	ug/kg	<60 [<60]	<70	<70	70	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
m&p-Xylene	ug/kg	<100 [<100]	<100	<100	<100	<200	<100	<100	<150	<150	<170	<150 [<140]	<150	<160	<140
Xylene (total)	ug/kg	<160 [<160]	<170	NA	NA	NA	NA	NA	<224	<224	<255	<226 [<212]	<224	<239	<211
Methyl tert butyl ether (MTBE)	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<640 [<630]	<700	<690	<610	<760	<710	<620	<740	<740	<850	<760 [<720]	<740	<790	<710
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<640 [<630]	<700	<690	<610	<760	<710	<620	<740	<740	<850	<760 [<720]	<740	<790	<710
1,2,4-Trichlorobenzene	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
1,2,4-Trimethylbenzene	ug/kg	NA	NA	<72	<74	<72	<78	<80	<74	<74	<85	<76 [<72]	<74	<79	<71
1,3,5-Trimethylbenzene	ug/kg	NA	NA	<72	<74	<72	<78	<80	<74	<74	<85	<76 [<72]	<74	<79	<71
1,2-Dichloropropane	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
1,3-Dichlorobenzene	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
Cyclohexane	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
Methyl cyclohexane	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
Dibromochloromethane	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
Isopropyl benzene	ug/kg	<60 [<60]	<70	<70	<60	<80	<70	<60	<74	<74	<85	<76 [<72]	<74	<79	<71
Naphthalene	ug/kg	NA	NA	<72	<74	35 J	<78	<80	<74	<74	<85	<76 [<72]	<74	<79	<71

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-NY92 3 - 4 06/04/12	SB-A5.2-NY92 8 - 9 06/04/12	SB-A5.2-NZ128* 1 - 2 05/01/12	SB-A5.2-NZ128* 4 - 5 05/01/12	SB-A5.2-NZ128* 6.5 - 7.5 05/01/12	SB-A5.2-NZ128* 11 - 12 05/01/12	SB-A5.2-NZ128* 16 - 17 05/01/12	SB-A5.2-NZ128* 20 - 21 05/01/12	SB-A5.2-NZ128* 25 - 26 05/01/12	SB-A5.2-NZ138* 1 - 2 05/01/12	SB-A5.2-NZ144* 1 - 2 05/04/12	SB-A5.2-NZ144* 6 - 7 05/04/12	SB-A5.2-NZ144* 12 - 13 05/04/12	SB-A5.2-NZ144* 18 - 19 05/04/12
	Units														
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	R [R]	<40	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 J [<100]	<40 J	<40 J	<40
2,4,6-Trichlorophenol	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	R [R]	<40 J	<40 J	<40
2,4-Dichlorophenol	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	R [R]	<40 J	<40 J	<40
2,4,5-Trichlorophenol	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	R [R]	<40	<40	<40
2,4-Dimethylphenol	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	R [R]	<40 J	<40 J	<40
2,4-Dinitrophenol	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	R [R]	<40	<40	<40
2,4-Dinitrotoluene	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 [<100]	<40	<40	<40
2,6-Dinitrotoluene	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 J [<100]	<40 J	<40 J	<40
2-Chloronaphthalene	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 J [<100]	<40 J	<40 J	<40
2-Chlorophenol	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	R [R]	<40	<40	<40
2-Methylnaphthalene	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 [<100]	<40	<40	<40
2-Methylphenol	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	R [R]	<40	<40	<40
2-Nitroaniline	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 J [<100]	<40 J	<40 J	<40
2-Nitrophenol	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	R [R]	<40 J	<40 J	<40
3&4-Methylphenol	ug/kg	<4,000 J [<4,000 J]	<70	<80	<2,000 J	<600 J	<80	<70	<80	<70	<80	R [R]	<80	<70	<70
3,3'-Dichlorobenzidine	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 [<100]	<40	<40	<40
Naphthalene	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 [<100]	<40	<40	<40
3-Nitroaniline	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 [<100]	<40	<40	<40
4-Bromophenyl phenyl ether	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 [<100]	<40	<40	<40
4-Chloro-3-methylphenol	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	R [R]	<40	<40	<40
4-Chloroaniline	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 [<100]	<40	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 J [<100]	<40 J	<40 J	<40
4-Nitroaniline	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 [<100]	<40	<40	<40
4-Nitrophenol	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	R [R]	<40	<40	<40
Anthracene	ug/kg	<2,000 J [3,000 J]	<40	<40	1,000 J	<300 J	<40	<40	<40	<40	<40	<200 [<100]	<40	<40	<40
Acenaphthene	ug/kg	<2,000 J [2,000 J]	<40	<40	1,900 J	<300 J	<40	<40	<40	<40	<40	<200 [<100]	<40	<40	<40
Acenaphthylene	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 [<100]	<40	<40	<40
Acetophenone	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 J [<100]	<40 J	<40 J	<40
Atrazine	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 J [<100]	<40 J	<40 J	<40
Benzaldehyde	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 [<100]	<40	<40	<40
Benzo(a)anthracene	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 [100]	<40	<40	<40
Benzo(a)pyrene	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 J [100]	<40 J	<40 J	<40
Benzo(b)fluoranthene	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	60 J	<200 [300 J]	<40	<40	<40
Benzo(g,h,i)perylene	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 [<100]	<40	<40	<40
Benzo(k)fluoranthene	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	60 J	<200 [300 J]	<40	<40	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 J [<100]	<40 J	<40 J	<40
bis(2-Chloroethoxy)methane	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 J [<100]	<40 J	<40 J	<40
bis(2-Chloroethyl)ether	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 J [<100]	<40 J	<40 J	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<4,000 J [<4,000 J]	<70	<80	<2,000 J	<600 J	<80	<70	<80	<70	<80	<400 J [<200]	<80 J	<70 J	<70
Butyl benzylphthalate (BBP)	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 J [<100]	<40 J	<40 J	<40
Caprolactam	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 [<100]	<40	<40	<40
Carbazole	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 [<100 S]	<40	<40	<40
Chrysene	ug/kg	<2,000 J [2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 [200]	<40	<40	<40
Dibenz(a,h)anthracene	ug/kg	<4,000 J [<4,000 J]	<70	<80	<2,000 J	<600 J	<80	<70	<80	<70	<80	<400 [<200]	<80	<70	<70
Dibenzofuran	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 J [<100]	<40 J	<40 J	<40
Diethyl phthalate	ug/kg	<4,000 J [<4,000 J]	<70	<80	<2,000 J	<600 J	<80	<70	<80	<70	<80	<400 J [<200]	<80 J	<70 J	<70
Dimethyl phthalate	ug/kg	<2,000 J [<2,000 J]	<70 B	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 J [<100]	<40 J	<40 J	<40
Di-n-butylphthalate (DBP)	ug/kg	<4,000 J [<4,000 J]	<70	<80	<2,000 J	<600 J	<80	<70	<80	<70	<80	<400 J [<200]	<80 J	<70 J	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<4,000 J [<4,000 J]	<70	<80	<2,000 J	<600 J	<80	<70	<80	<70	<80	<400 J [<200]	<80 J	<70 J	<70
Fluoranthene	ug/kg	3,000 J [7,000 J]	<40	<40	1,200 J	<300 J	<40	<40	<40	<40	60	<200 [300 S]	<40	<40	<40
Fluorene	ug/kg	21,000 J [56,000 J] ^b	40	<40	4,100 J	600 J	<40	<40	<40	<40	<40	<200 [<100]	<40	<40	<40
Hexachlorobenzene	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 [<100]	<40	<40	<40
Hexachlorobutadiene	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 J [<100]	<40 J	<40 J	<40
Hexachlorocyclopentadiene	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 [<100]	<40	<40	<40
Hexachloroethane	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 J [<100]	<40 J	<40 J	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 [<100]	<40	<40	<40
Isophorone	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 J [<100]	<40 J	<40 J	<40
Nitrobenzene	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 J [<100]	<40 J	<40 J	<40
N-Nitrosodi-n-propylamine	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 [<100]	<40	<40	<40
N-Nitrosodiphenylamine	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	<200 [<100]	<40	<40	<40
Pentachlorophenol	ug/kg	<2,000 J [<2,000 J]	<40	<40	<800 J	<300 J	<40	<40	<40	<40	<40	R [R]	<40	<40	<40
Phenanthrene	ug/kg	15,000 J [32,000 J] ^b	<40	<40	5,500 J ^b	700 J	<40	<40	<40	<40	60	<200 [<			

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-NY92 3 - 4 06/04/12	SB-A5.2-NY92 8 - 9 06/04/12	SB-A5.2-NZ128* 1 - 2 05/01/12	SB-A5.2-NZ128* 4 - 5 05/01/12	SB-A5.2-NZ128* 6.5 - 7.5 05/01/12	SB-A5.2-NZ128* 11 - 12 05/01/12	SB-A5.2-NZ128* 16 - 17 05/01/12	SB-A5.2-NZ128* 20 - 21 05/01/12	SB-A5.2-NZ128* 25 - 26 05/01/12	SB-A5.2-NZ138* 1 - 2 05/01/12	SB-A5.2-NZ144* 1 - 2 05/04/12	SB-A5.2-NZ144* 6 - 7 05/04/12	SB-A5.2-NZ144* 12 - 13 05/04/12	SB-A5.2-NZ144* 18 - 19 05/04/12
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	<20 [<3]	<3	<3	<300 J	<50 J	<3	<3	<3	<3	<5	<5 [<3]	<3	<3	<3
Aroclor-1221 (PCB-1221)	ug/kg	<20 [<3]	<3	<3	<300 J	<50 J	<3	<3	<3	<3	<5	<5 [<3]	<3	<3	<3
Aroclor-1232 (PCB-1232)	ug/kg	<20 [<3]	<3	<3	<300 J	<50 J	<3	<3	<3	<3	<5	<5 [<3]	<3	<3	<3
Aroclor-1242 (PCB-1242)	ug/kg	<20 [<3]	<3	<3	2,800 J	600 J	<3	<3	<3	<3	<5	<5 [<3]	<3	<3	<3
Aroclor-1248 (PCB-1248)	ug/kg	<20 [<3]	<3	<3	<300 J	<50 J	<3	<3	<3	<3	<5	<5 [<3]	<3	<3	<3
Aroclor-1254 (PCB-1254)	ug/kg	60 [40]	<3	<3	<300 J	<50 J	<3	<3	<3	<3	10	50 J [<8 J]	<3	<3	<3
Aroclor-1260 (PCB-1260)	ug/kg	<20 [<3]	<3	<3	<300 J	<50 J	<3	<3	<3	<3	<5	<5 [<3]	<3	<3	<3
Total PCBs	ug/kg	60 [40]	ND	ND	ND	ND	ND	ND	ND	ND	10	50 J [ND]	ND	ND	ND
Inorganics															
Antimony	mg/kg	<0.20 [<0.2]	<0.20	<0.21	<0.21	<0.22	<0.22	<0.21	<0.21	<0.21	<0.22	<0.21 [<0.2]	<0.20	<0.21	<0.21
Arsenic	mg/kg	1.17 [0.83]	0.90	0.43	1.34	0.30	0.29	0.79	2.14	2.21	0.77	4.34 [2.84]	0.26	0.88	1.92
Barium	mg/kg	16.5 [5.92]	35.0	11.0	6.08	58.7	2.42	30.4	42.6	36.6	15.2	26.2 [30.7]	20.3	26.6	24.6
Beryllium	mg/kg	<0.20 [<0.2]	0.24	<0.21	<0.21	0.35	<0.22	<0.21	<0.21	<0.21	<0.22	<0.21 [<0.2]	<0.20	<0.21	<0.21
Boron	mg/kg	<4.0 [<4]	<4.0	<4.3	<4.2	<4.5	<4.4	<4.2	<4.3	<4.2	<4.4	5.13 [5.98]	<4.1	<4.3	<4.2
Cadmium	mg/kg	<0.10 [<0.1]	<0.10	<0.10	<0.10	0.15	<0.11	<0.10	<0.10	<0.10	<0.11	0.13 [<0.1]	<0.10	<0.10	<0.10
Chromium	mg/kg	3.28 [2.41]	8.04	1.39	1.05	3.47	0.71	3.89	6.04	4.69	1.59	6.84 [7.37]	2.08	3.26	2.88
Cobalt	mg/kg	3.86 [3.08]	3.92	1.22	0.85	1.69	0.37	3.06	3.81	3.12	10.9^{abi}	222 [303]^{abi}	1.88	2.85	2.75
Copper	mg/kg	5.34 [4.4]	9.02	2.06	3.35	8.50	0.95	7.93	11.2	9.53	3.56	12.2 [12.8]	5.07	9.79	7.52
Lead	mg/kg	3.13 [2.97]	3.92	2.11	34.6ⁱ	7.97	0.76	3.62	5.08	3.83	5.53	11.6 [10.4]	2.57	4.58	3.71
Manganese	mg/kg	194 [128]	248	85.2	99.0	44.7	62.2	264	308	216	138	187 [191]	169	244	224
Mercury	mg/kg	0.0059 [0.0072]	0.01366	0.0080	<0.0056	0.0389	<0.0061	0.0091	0.0113	0.0163	0.0086	<0.0066 [<0.008]	0.0060	0.0100	0.0086
Nickel	mg/kg	6.33 [5.17]	12.5	1.89	3.36	2.52	2.13	10.6	11.7	10.7	4.55	15.5 [19.5]	4.63	8.60	8.01
Selenium	mg/kg	<0.20 [<0.2]	<0.20	<0.21	<0.21	<0.22	<0.22	0.21	<0.21	0.22	<0.22	<0.21 [<0.2]	0.24	0.35	<0.21
Silver	mg/kg	0.32 [0.23]	<0.10	<0.10	<0.10	<0.11	<0.11	<0.10	<0.10	<0.10	1.15^{bi}	29.4 [36.6]^{abi}	<0.10	<0.10	<0.10
Thallium	mg/kg	<0.20 [<0.2]	<0.20	<0.21	<0.21	<0.22	<0.22	<0.21	<0.21	<0.21	<0.22	<0.21 [<0.2]	<0.20	<0.21	<0.21
Vanadium	mg/kg	5.06 [3.68]	9.64	2.34	1.64	4.48	0.88	5.78	6.94	5.40	2.30	4.77 [6.28]	4.60	5.03	4.62
Zinc	mg/kg	9.26 [7.22]	17.9	2.42	6.53	17.0	1.54	10.8	17.2	11.9	6.88	26.6 [26.2]	6.82	13.8	11.1
Miscellaneous															
Total solids	%	92 [89]	93	86	88	81	82	89	87	89	83	73 [63]	86	89	91

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-NZ144* 24 - 25 05/04/12	SB-A5.2-OA138* 1 - 2 05/10/12	SB-A5.2-OA138* 7 - 8 05/10/12	SB-A5.2-OA138* 11 - 12 05/10/12	SB-A5.2-OA138* 17 - 18 05/10/12	SB-A5.2-OA138* 23 - 24 05/10/12	SB-A5.2-OA162* 1 - 2 05/07/12	SB-A5.2-OA162* 6 - 7 05/07/12	SB-A5.2-OA162* 12 - 13 05/07/12	SB-A5.2-OA162* 18 - 19 05/07/12	SB-A5.2-OA162* 20 - 21 05/07/12	SB-A5.2-OB120 1.5 - 2.5 05/22/12	SB-A5.2-OB120 7.5 - 8.5 05/22/12	SB-A5.2-OB120 23 - 24 05/22/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
1,2-Dichlorobenzene	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
1,4-Dichlorobenzene	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
2-Hexanone	ug/kg	<690	<710	<730 [<740]	<770	<770	<740	<770	<770	<560	<710	<770	<790	<810	<760
Acetone	ug/kg	<1,700	2,100 JB	2,200 JB [<1,900]	2,600 JB	2,300 JB	<1,900	<1,900	<1,900	1,600 JB	<1,800	<1,900	<2,000	<2,000	<1,900
Bromodichloromethane	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
Bromoform	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
Carbon tetrachloride	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
Chlorobenzene	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
Chloroform (Trichloromethane)	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
Chloromethane (Methyl chloride)	ug/kg	<170	<180	<180 [<190]	<190	<190	<190	<190	<190	<140	<180	<190	<200	<200	<190
cis-1,3-Dichloropropene	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
Styrene	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
trans-1,3-Dichloropropene	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
1,4-Dioxane	ug/kg	<690 J	<710	<730 [<740]	<770	<770	<740	<770	<770	<560	<710	<770	<790	<810	<760
1,1,1-Trichloroethane	ug/kg	<69	34 J	<73 [<74]	<77	<77	<74	130	<77	<56	<71	<77	<79	<81	<76
1,1,2,2-Tetrachloroethane	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
1,1,2-Trichloroethane	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
1,1-Dichloroethane	ug/kg	<69	<71	<73 [<74]	<77	41 J	<74	<77	<77	<56	<71	<77	<79	<81	230
1,1-Dichloroethene	ug/kg	<69	<71	<73 [<74]	240 ^a	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
1,2-Dichloroethane	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
cis-1,2-Dichloroethene	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
trans-1,2-Dichloroethene	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
Trichloroethene	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
Tetrachloroethene	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
Vinyl chloride	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
Chloroethane	ug/kg	<69	<71	<73 [<74]	200	740	<74	<77	<77	<56	<71	<77	<79	160 J	2,500 J
Benzene	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
Ethylbenzene	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
Toluene	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
o-Xylene	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
m&p-Xylene	ug/kg	<140	<140	<150 [<150]	<150	<150	<150	<150	<150	<110	<140	<150	<160	<160	<150
Xylene (total)	ug/kg	<209	<211	<223 [<224]	<227	<227	<224	<227	<227	<166	<211	<227	<239	<241	<226
Methyl tert butyl ether (MTBE)	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<690	<710	<730 [<740]	<770	<770	<740	<770	<770	<560	<710	<770	<790	<810	<760
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<690	<710	<730 [<740]	<770	<770	<740	<770	<770	<560	<710	<770	<790	<810	<760
1,2,4-Trichlorobenzene	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
1,2,4-Trimethylbenzene	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
1,3,5-Trimethylbenzene	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
1,2-Dichloropropane	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
1,3-Dichlorobenzene	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
Cyclohexane	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
Methyl cyclohexane	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
Dibromochloromethane	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
Isopropyl benzene	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76
Naphthalene	ug/kg	<69	<71	<73 [<74]	<77	<77	<74	<77	<77	<56	<71	<77	<79	<81	<76

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-NZ144* 24 - 25 05/04/12	SB-A5.2-OA138* 1 - 2 05/10/12	SB-A5.2-OA138* 7 - 8 05/10/12	SB-A5.2-OA138* 11 - 12 05/10/12	SB-A5.2-OA138* 17 - 18 05/10/12	SB-A5.2-OA138* 23 - 24 05/10/12	SB-A5.2-OA162* 1 - 2 05/07/12	SB-A5.2-OA162* 6 - 7 05/07/12	SB-A5.2-OA162* 12 - 13 05/07/12	SB-A5.2-OA162* 18 - 19 05/07/12	SB-A5.2-OA162* 20 - 21 05/07/12	SB-A5.2-OB120 1.5 - 2.5 05/22/12	SB-A5.2-OB120 7.5 - 8.5 05/22/12	SB-A5.2-OB120 23 - 24 05/22/12
	Units														
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<50	<40 [<40]	<40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40	<50	<40 [<40]	<40	<40	<40 J	<40 J	<400 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J
2,4,6-Trichlorophenol	ug/kg	<40	<50	<40 [<40]	<40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
2,4-Dichlorophenol	ug/kg	<40	<50	<40 [<40]	<40	<40	<40 J	<40 J	<400 J	<40 J	<40 J	<40 J	<40	<40	<40
2,4,5-Trichlorophenol	ug/kg	<40	<50	<40 [<40]	<40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
2,4-Dimethylphenol	ug/kg	<40	<50	<40 [<40]	<40	<40	<40	<40 J	<400 J	<40 J	<40 J	<40 J	<40	<40	<40
2,4-Dinitrophenol	ug/kg	<40	<50	<40 [<40]	<40	<40	<40 J	<40	<400 J	<40	<40	<40	<40	<40	<40
2,4-Dinitrotoluene	ug/kg	<40	<50	<40 [<40]	<40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
2,6-Dinitrotoluene	ug/kg	<40	<50	<40 [<40]	<40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
2-Chloronaphthalene	ug/kg	<40	<50	<40 [<40]	<40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
2-Chlorophenol	ug/kg	<40	<50	<40 [<40]	<40	<40	<40 J	<40	<400 J	<40	<40	<40	<40	<40	<40
2-Methylnaphthalene	ug/kg	<40	<50	<40 [<40]	<40	<40	<40 J	<40	<400 J	<40	<40	<40	<40	<40	<40
2-Methylphenol	ug/kg	<40	<50	<40 [<40]	<40	<40	<40 J	<40	<400 J	<40	<40	<40	<40	<40	<40
2-Nitroaniline	ug/kg	<40	<50	<40 [<40]	<40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
2-Nitrophenol	ug/kg	<40	<50	<40 [<40]	<40	<40	<40 J	<40 J	<400 J	<40 J	<40 J	<40 J	<40	<40	<40
3&4-Methylphenol	ug/kg	<70	<90	<80 [<80]	<80	<70	<70 J	<80	<700 J	<70	<70	<80	<80	<80	<90
3,3'-Dichlorobenzidine	ug/kg	<40	<50	<40 [<40]	<40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
Naphthalene	ug/kg	<40	<50	<40 [<40]	<40	<40	<40 J	<40	<400 J	<40	<40	<40	<40	<40	<40
3-Nitroaniline	ug/kg	<40	<50	<40 [<40]	<40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
4-Bromophenyl phenyl ether	ug/kg	<40	<50	<40 [<40]	<40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
4-Chloro-3-methylphenol	ug/kg	<40	<50	<40 [<40]	<40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
4-Chloroaniline	ug/kg	<40	<50	<40 [<40]	<40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	<40	<50	<40 [<40]	<40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
4-Nitroaniline	ug/kg	<40	<50	<40 [<40]	<40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
4-Nitrophenol	ug/kg	<40	<50	<40 [<40]	<40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
Anthracene	ug/kg	<40	<50	<40 [<40]	40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
Acenaphthene	ug/kg	<40	<50	<40 [<40]	210	<40	<40 J	<40	<400 J	<40	<40	<40	<40	<40	<40
Acenaphthylene	ug/kg	<40	<50	<40 [<40]	<40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
Acetophenone	ug/kg	<40	<50	<40 [<40]	<40	<40	<40 J	<40 J	<400 J	<40 J	<40 J	<40 J	<40	<40	<40
Atrazine	ug/kg	<40	<50	<40 [<40]	<40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
Benzaldehyde	ug/kg	<40	<50	<40 [<40]	<40	<40	<40 J	<40	<400 J	<40	<40	<40	<40	<40	<40
Benzo(a)anthracene	ug/kg	<40	100	50 [<40]	40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
Benzo(a)pyrene	ug/kg	<40	100	40 [<40]	40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
Benzo(b)fluoranthene	ug/kg	<40	220 J	80 J [<40]	80 J	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
Benzo(g,h,i)perylene	ug/kg	<40	90	<40 [<40]	<40	<40	<40 J	<40	<400 J	<40	<40	<40	<40	<40	<40
Benzo(k)fluoranthene	ug/kg	<40	240 J	80 J [<40]	90 J	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<50	<40 [<40]	<40	<40	<40 J	<40	<400 J	<40	<40	<40	<40	<40	<40
bis(2-Chloroethoxy)methane	ug/kg	<40	<50	<40 [<40]	<40	<40	<40 J	<40 J	<400 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J
bis(2-Chloroethyl)ether	ug/kg	<40	<50	<40 [<40]	<40	<40	<40 J	<40 J	<400 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70	<90	<80 [<80]	<80	<70	<70 J	<80 J	<700 J	<70 J	<70 J	<70 J	<80 J	<80	<90
Butyl benzylphthalate (BBP)	ug/kg	<40	<50	<40 [<40]	<40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
Caprolactam	ug/kg	<40	<50	<40 [<40]	<40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
Carbazole	ug/kg	<40	<50	50 [<40]	<40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
Chrysene	ug/kg	<40	120	50 [<40]	50	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
Dibenz(a,h)anthracene	ug/kg	<70	<90	<80 [<80]	<80	<70	<70	<80	<700 J	<70	<70	<80	<80	<80	<90
Dibenzofuran	ug/kg	<40	<50	<40 [<40]	50	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
Diethyl phthalate	ug/kg	<70	<90	<80 [<80]	<80	<70	<70	<80	<700 J	<70	<70	<80	<80	<80	<90
Dimethyl phthalate	ug/kg	<40	<210 B	<50 B [<210 B]	<90 B	<80 B	<40	<270 B	<500 B	<130 B	<130 B	<150 B	<400 B	<190 B	<160 B
Di-n-butylphthalate (DBP)	ug/kg	<70	<90	<80 [<80]	<80	<70	<70	<80	<700 J	<70	<70	<80	<80	<80	<90
Di-n-octyl phthalate (DnOP)	ug/kg	<70	<90	<80 [<80]	<80	<70	<70	<80 J	<700 J	<70 J	<70 J	<80 J	<80	<80	<90
Fluoranthene	ug/kg	<40	180	90 [<40]	130	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
Fluorene	ug/kg	<40	<50	<40 [<40]	310	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
Hexachlorobenzene	ug/kg	<40	<50	<40 [<40]	<40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
Hexachlorobutadiene	ug/kg	<40	<50	<40 [<40]	<40	<40	<40 J	<40 J	<400 J	<40 J	<40 J	<40 J	<40	<40	<40
Hexachlorocyclopentadiene	ug/kg	<40	<50	<40 [<40]	<40	<40	<40 J	<40	<400 J	<40	<40	<40	<40	<40	<40
Hexachloroethane	ug/kg	<40	<50	<40 [<40]	<40	<40	<40 J	<40 J	<400 J	<40 J	<40 J	<40 J	<40	<40	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<40	90	<40 [<40]	<40	<40	<40 J	<40	<400 J	<40	<40	<40	<40	<40	<40
Isophorone	ug/kg	<40	<50	<40 [<40]	<40	<40	<40 J	<40 J	<400 J	<40 J	<40 J	<40 J	<40	<40	<40
Nitrobenzene	ug/kg	<40	<50	<40 [<40]	<40	<40	<40 J	<40 J	<400 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J
N-Nitrosodi-n-propylamine	ug/kg	<40	<50	<40 [<40]	<40	<40	<40 J	<40	<400 J	<40	<40	<40	<40	<40	<40
N-Nitrosodiphenylamine	ug/kg	<40	<50	<40 [<40]	<40	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
Pentachlorophenol	ug/kg	<40	<50	<40 [<40]	<40	<40	<40 J	<40	<400 J	<40	<40	<40	<40	<40	<40
Phenanthrene	ug/kg	<40	60	<40 [<40]	50	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40
Phenol	ug/kg	<40	<50	<40 [<40]	<40	<40	<40 J	<40	<400 J	<40	<40	<40	<40	<40	<40
Pyrene	ug/kg	<40	150	70 [<40]	90	<40	<40	<40	<400 J	<40	<40	<40	<40	<40	<40

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-NZ144*	SB-A5.2-OA138*	SB-A5.2-OA138*	SB-A5.2-OA138*	SB-A5.2-OA138*	SB-A5.2-OA138*	SB-A5.2-OA162*	SB-A5.2-OA162*	SB-A5.2-OA162*	SB-A5.2-OA162*	SB-A5.2-OA162*	SB-A5.2-OB120	SB-A5.2-OB120	SB-A5.2-OB120
	Units	24 - 25 05/04/12	1 - 2 05/10/12	7 - 8 05/10/12	11 - 12 05/10/12	17 - 18 05/10/12	23 - 24 05/10/12	1 - 2 05/07/12	6 - 7 05/07/12	12 - 13 05/07/12	18 - 19 05/07/12	20 - 21 05/07/12	1.5 - 2.5 05/22/12	7.5 - 8.5 05/22/12	23 - 24 05/22/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	<3	<8	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1221 (PCB-1221)	ug/kg	<3	<8	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1232 (PCB-1232)	ug/kg	<3	<8	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1242 (PCB-1242)	ug/kg	<3	<8	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1248 (PCB-1248)	ug/kg	<3	<8	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1254 (PCB-1254)	ug/kg	<3	100	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	6
Aroclor-1260 (PCB-1260)	ug/kg	<3	<8	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Total PCBs	ug/kg	ND	100	ND [ND]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6
Inorganics															
Antimony	mg/kg	<0.20	0.30	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20	<0.21
Arsenic	mg/kg	1.89	1.28 J	1.13 J [0.34 J]	0.95 J	2.10 J	2.05 J	1.12	0.44	0.73	1.61	0.85	0.74	1.27	1.47
Barium	mg/kg	21.7	20.7	35.5 [41.6]	15.5	21.4	20.3	27.9	6.70	21.4	28.4	3.38	7.26	45.9	23.5
Beryllium	mg/kg	<0.20	<0.20	0.22 [0.27]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	0.30	<0.21
Boron	mg/kg	<4.1	<4.0	<4.0 [<4]	<4.0	<4.0	<4.0	<4.1	<4.0	<4.1	<4.2	<4.1	<4.0	<4.0	<4.3
Cadmium	mg/kg	<0.10	0.19 J	0.11 J [0.11 J]	<0.10 J	0.20 J	<0.10 J	<0.10	<0.10	<0.10	0.10	<0.10	<0.10	0.16	<0.10
Chromium	mg/kg	4.55	5.34	3.31 [3.25]	3.71	2.15	2.87	2.59	1.41	1.93	2.42	1.30	1.31	5.51	3.27
Cobalt	mg/kg	2.26	1.83	1.77 [1.27]	1.18	2.21	2.38	8.10 ^{abi}	0.94	1.58	2.55	0.74	4.10	2.67	2.77
Copper	mg/kg	6.91	20.2	7.74 [8.16]	7.95	6.82	6.61	4.27	3.59	6.30	7.55	3.16	1.94	12.6	8.48
Lead	mg/kg	3.39	44.8 J ⁱ	12.0 J [10.6 J]	24.8 J ⁱ	3.68 J	3.37 J	4.28	1.40	3.24	3.69	1.89	2.63	33.5 ⁱ	4.03
Manganese	mg/kg	208	153	197 [104]	157	222	213	245	156	215	210	87.8	123	181	232
Mercury	mg/kg	0.0080	0.0655	0.0238 [0.0317]	0.0073	0.0093	0.0069	0.0112	<0.0055	0.0071	0.0131	<0.0059	0.0073	0.0152	<0.0062
Nickel	mg/kg	7.36	8.01	4.39 [2.94]	3.86	7.36	7.05	7.00	4.58	6.65	8.46	3.54	3.65	6.62	8.28
Selenium	mg/kg	<0.20	<0.20	<0.20 [<0.2]	<0.20	0.29	<0.20	<0.20	<0.20	0.21	<0.21	<0.20	<0.20	<0.20	<0.21
Silver	mg/kg	<0.10	<0.10	<0.10 [<0.1]	<0.10	<0.10	<0.10	0.85	<0.10	<0.10	<0.10	<0.10	0.53	<0.10	<0.10
Thallium	mg/kg	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20	<0.21
Vanadium	mg/kg	4.32	2.14	6.85 [6.6]	4.00	3.72	4.67	4.62	1.87	3.09	3.98	1.53	2.22	11.5	5.27
Zinc	mg/kg	12.3	25.8 J	10.3 J [9.28 J]	7.88 J	12.9 J	13.0 J	9.19	2.71	7.97	11.9	5.50	3.15	27.9	15.2
Miscellaneous															
Total solids	%	91	71	85 [85]	84	91	90	85	90	90	91	83	82	85	77

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-OB120 26 - 27 05/22/12	SB-A5.2-OC107 1.9 - 2.9 05/22/12	SB-A5.2-OC107 5.5 - 6.5 05/22/12	SB-A5.2-OC107 8 - 9 05/22/12	SB-A5.2-OC107A 8 - 9 05/22/12	SB-A5.2-OC107A 16 - 17 05/22/12	SB-A5.2-OD154* 2 - 3 05/07/12	SB-A5.2-OD154* 9 - 10 05/07/12	SB-A5.2-OD154* 15 - 16 05/07/12	SB-A5.2-OD154* 19 - 20 05/07/12	SB-A5.2-OD154* 20 - 21 05/07/12	SB-A5.2-OG138* 0 - 1 05/07/12	SB-A5.2-OG138A* 1 - 2 05/10/12	SB-A5.2-OG138A* 6 - 7 05/10/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
1,2-Dichlorobenzene	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
1,4-Dichlorobenzene	ug/kg	<72	<82	<76	<81	<1,600	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
2-Hexanone	ug/kg	<720	<820	<760	<810	<790	<780	<770 [<u><770</u>]	<730	<740	<710	<730	<720	<730	<800 [<u><740</u>]
Acetone	ug/kg	<1,800	<2,100	<1,900	<2,000	<2,000	<1,900	<1,900 [<u><1,900</u>]	<1,800	<1,900	<1,800	<1,800	<1,800	2,900 JB	2,600 JB [<u><1,900</u>]
Bromodichloromethane	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
Bromoform	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
Carbon tetrachloride	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
Chlorobenzene	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
Chloroform (Trichloromethane)	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
Chloromethane (Methyl chloride)	ug/kg	<180	<210	<190	<200	<200	<190	<190 [<u><190</u>]	<180	<190	<180	<180	<180	<180	<200 [<u><190</u>]
cis-1,3-Dichloropropene	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
Styrene	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
trans-1,3-Dichloropropene	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
1,4-Dioxane	ug/kg	<720	<820	<760	<810	<790	<780	<770 [<u><770</u>]	<730	<740	<710	<730	<720	<730	<800 [<u><740</u>]
1,1,1-Trichloroethane	ug/kg	<72	30 J	4,400 ^{ab}	510	52,000 ^{ab}	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
1,1,2,2-Tetrachloroethane	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
1,1,2-Trichloroethane	ug/kg	<72	<82	<76	<81	44 J	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
1,1-Dichloroethane	ug/kg	290	<82	380	75 J	1,900	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
1,1-Dichloroethene	ug/kg	<72	<82	140	<81	720 ^{ad}	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
1,2-Dichloroethane	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
cis-1,2-Dichloroethene	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
trans-1,2-Dichloroethene	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
Trichloroethene	ug/kg	<72	<82	<76	<81	210 ^a	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
Tetrachloroethene	ug/kg	<72	<82	27 J	<81	190 ^a	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
Vinyl chloride	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
Chloroethane	ug/kg	2,000 J	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
Benzene	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
Ethylbenzene	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
Toluene	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
o-Xylene	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
m&p-Xylene	ug/kg	<140	<160	<150	<160	<160	<160	<150 [<u><150</u>]	<150	<150	<140	<150	<140	<150	<160 [<u><150</u>]
Xylene (total)	ug/kg	<212	<242	<226	<241	<239	<238	<227 [<u><227</u>]	<223	<224	<211	<223	<212	<223	<240 [<u><224</u>]
Methyl tert butyl ether (MTBE)	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<720	<820	<760	<810	<790	<780	<770 [<u><770</u>]	<730	<740	<710	<730	<720	<730	<800 [<u><740</u>]
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<720	<820	<760	<810	<790	<780	<770 [<u><770</u>]	<730	<740	<710	<730	<720	<730	<800 [<u><740</u>]
1,2,4-Trichlorobenzene	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
1,2,4-Trimethylbenzene	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
1,3,5-Trimethylbenzene	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
1,2-Dichloropropane	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
1,3-Dichlorobenzene	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
Cyclohexane	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
Methyl cyclohexane	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
Dibromochloromethane	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
Isopropyl benzene	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]
Naphthalene	ug/kg	<72	<82	<76	<81	<79	<78	<77 [<u><77</u>]	<73	<74	<71	<73	<72	<73	<80 [<u><74</u>]

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-OB120 26 - 27 05/22/12	SB-A5.2-OC107 1.9 - 2.9 05/22/12	SB-A5.2-OC107 5.5 - 6.5 05/22/12	SB-A5.2-OC107 8 - 9 05/22/12	SB-A5.2-OC107A 8 - 9 05/22/12	SB-A5.2-OC107A 16 - 17 05/22/12	SB-A5.2-OD154* 2 - 3 05/07/12	SB-A5.2-OD154* 9 - 10 05/07/12	SB-A5.2-OD154* 15 - 16 05/07/12	SB-A5.2-OD154* 19 - 20 05/07/12	SB-A5.2-OD154* 20 - 21 05/07/12	SB-A5.2-OG138* 0 - 1 05/07/12	SB-A5.2-OG138A* 1 - 2 05/10/12	SB-A5.2-OG138A* 6 - 7 05/10/12
	Units														
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40 J	<40 J [<40 J]	<80 J	<40 J	<40 J	<40	<40 J	<40	<40 [<40]
2,4,6-Trichlorophenol	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
2,4-Dichlorophenol	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 J [<40 J]	<80 J	<40 J	<40 J	<40 J	<40	<40 J	<40 [<40]
2,4,5-Trichlorophenol	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
2,4-Dimethylphenol	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 J [<40 J]	<80 J	<40 J	<40 J	<40 J	<40	<40 J	<40 [<40]
2,4-Dinitrophenol	ug/kg	<300	<300 J	<1,000 J	<600 J	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
2,4-Dinitrotoluene	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
2,6-Dinitrotoluene	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
2-Chloronaphthalene	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
2-Chlorophenol	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
2-Methylnaphthalene	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
2-Methylphenol	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
2-Nitroaniline	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
2-Nitrophenol	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 J [<40 J]	<80 J	<40 J	<40 J	<40	<40 J	<40	<40 [<40]
3&4-Methylphenol	ug/kg	<700	<600	<2,000 J	<1,000	<2,000 J	<70	<70 [<70]	<200	<70	<70	<80	<80	<80	<80 [<80]
3,3'-Dichlorobenzidine	ug/kg	<300	<300 J	<1,000 J	<600 J	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
Naphthalene	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
3-Nitroaniline	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
4-Bromophenyl phenyl ether	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
4-Chloro-3-methylphenol	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
4-Chloroaniline	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
4-Chlorophenyl phenyl ether	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
4-Nitroaniline	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
4-Nitrophenol	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
Anthracene	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	100 [130]
Acenaphthene	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	60	<40 [<40]
Acenaphthylene	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
Acetophenone	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 J [<40 J]	<80 J	<40 J	<40 J	<40	<40 J	<40	<40 [<40]
Atrazine	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
Benzaldehyde	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
Benzo(a)anthracene	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	90 [60]	<80	<40	<40	<40	<40	950	100 [50]
Benzo(a)pyrene	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	100 [60]	<80	<40	<40	<40	<40	960	<40 [<40]
Benzo(b)fluoranthene	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	200 J [120 J]	<80	<40	<40	<40	<40	2,040 J	<40 [<40 [50 J]]
Benzo(g,h,i)perylene	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	50 [40]	<80	<40	<40	<40	<40	230	<40 [<40]
Benzo(k)fluoranthene	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	200 J [120 J]	<80	<40	<40	<40	<40	2,090 J	<40 [<40 [50 J]]
Biphenyl (1,1-Biphenyl)	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
bis(2-Chloroethoxy)methane	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40 J	<40 J [<40 J]	<80 J	<40 J	<40 J	<40	<40 J	<40	<40 [<40]
bis(2-Chloroethyl)ether	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40 J	<40 J [<40 J]	<80 J	<40 J	<40 J	<40	<40 J	<40	<40 [<40]
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<700	<600	<2,000 J	<1,000	<2,000 J	<70	<70 J [<70 J]	<200 J	<70 J	<70 J	<80	110 J	<80	<80 [<80]
Butyl benzylphthalate (BBP)	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
Caprolactam	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
Carbazole	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	170	<40 [<40]
Chrysene	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	110 [60]	<80	<40	<40	<40	<40	1,060	80 [50]
Dibenz(a,h)anthracene	ug/kg	<700	<600	<2,000 J	<1,000	<2,000 J	<70	<70 [<70]	<200	<70	<70	<80	90	<80	<80 [<80]
Dibenzofuran	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
Diethyl phthalate	ug/kg	<700	<600	<2,000 J	<1,000	<2,000 J	<70	<70 [<70]	<200	<70	<70	<80	<80	<80	<80 [<80]
Dimethyl phthalate	ug/kg	<600 B	<300	<1,000 J	<600	<1,000 J	<390 B	<170 B [<110 B]	<650 B	<80 B	<40 B	<40	<870 B	<110 B	<110 B [<180 B]
Di-n-butylphthalate (DBP)	ug/kg	<700	<600	<2,000 J	<1,000	<2,000 J	<70	<70 [<70]	<200	<70	<70	<80	<80	<80	<80 [<80]
Di-n-octyl phthalate (DnOP)	ug/kg	<700	<600	<2,000 J	<1,000	<2,000 J	<70	<70 J [<70 J]	<200 J	<70 J	<70 J	<80	<80 J	<80	<80 [<80]
Fluoranthene	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	210 [100]	<80	<40	<40	<40	<40	2,130	1,340 [870]
Fluorene	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	70	<40 [<40 [90]]
Hexachlorobenzene	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
Hexachlorobutadiene	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 J [<40 J]	<80 J	<40 J	<40 J	<40	<40 J	<40	<40 [<40]
Hexachlorocyclopentadiene	ug/kg	<300	<300 J	<1,000 J	<600 J	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
Hexachloroethane	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 J [<40 J]	<80 J	<40 J	<40 J	<40	<40 J	<40	<40 [<40]
Indeno(1,2,3-cd)pyrene	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	50 [40]	<80	<40	<40	<40	<40	250	<40 [<40]
Isophorone	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 J [<40 J]	<80 J	<40 J	<40 J	<40	<40 J	<40	<40 [<40]
Nitrobenzene	ug/kg	<300 J	<300	<1,000 J	<600	<1,000 J	<40 J	<40 J [<40 J]	<80 J	<40 J	<40 J	<40	<40 J	<40	<40 [<40]
N-Nitrosodi-n-propylamine	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
N-Nitrosodiphenylamine	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
Pentachlorophenol	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	<40 [<40]	<80	<40	<40	<40	<40	<40	<40 [<40]
Phenanthrene	ug/kg	<300	<300	<1,000 J	<600	<1,000 J	<40	100 [40]	<80						

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-OB120 26 - 27 05/22/12	SB-A5.2-OC107 1.9 - 2.9 05/22/12	SB-A5.2-OC107 5.5 - 6.5 05/22/12	SB-A5.2-OC107 8 - 9 05/22/12	SB-A5.2-OC107A 8 - 9 05/22/12	SB-A5.2-OC107A 16 - 17 05/22/12	SB-A5.2-OD154* 2 - 3 05/07/12	SB-A5.2-OD154* 9 - 10 05/07/12	SB-A5.2-OD154* 15 - 16 05/07/12	SB-A5.2-OD154* 19 - 20 05/07/12	SB-A5.2-OD154* 20 - 21 05/07/12	SB-A5.2-OG138* 0 - 1 05/07/12	SB-A5.2-OG138A* 1 - 2 05/10/12	SB-A5.2-OG138A* 6 - 7 05/10/12
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	<20	<3	<3	<3	<3	<3	<3 [<3]	<5	<3	<3	<50 J	<3	<3	<3 [<3]
Aroclor-1221 (PCB-1221)	ug/kg	<20	<3	<3	<3	<3	<3	<3 [<3]	<5	<3	<3	<50 J	<3	<3	<3 [<3]
Aroclor-1232 (PCB-1232)	ug/kg	<20	<3	<3	<3	<3	<3	<3 [<3]	<5	<3	<3	<50 J	<3	<3	<3 [<3]
Aroclor-1242 (PCB-1242)	ug/kg	<20	<3	<3	<3	<3	<3	<3 [<3]	<5	<3	<3	<50 J	<3	<3	<3 [<3]
Aroclor-1248 (PCB-1248)	ug/kg	<20	<3	<3	<3	<3	<3	<3 [<3]	<5	<3	<3	<50 J	<3	<3	<3 [<3]
Aroclor-1254 (PCB-1254)	ug/kg	160 Y	10	<3	<3	3	<3	<20 [<40 J]	<5	<3	<3	<50 J	<3	<3	<3 [<3]
Aroclor-1260 (PCB-1260)	ug/kg	<20	<3	<3	<3	<3	<3	<3 [<3]	<5	<3	<3	<50 J	<6	<3	<3 [<3]
Total PCBs	ug/kg	160	10	ND	ND	3	ND	ND [ND]	ND	ND	ND	ND	ND	ND	ND [ND]
Inorganics															
Antimony	mg/kg	<0.24	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.21	<0.20	<0.20	<0.21	<0.21	<0.20	<0.20 [<0.2]
Arsenic	mg/kg	3.72	0.59	0.79	0.81	0.77	1.11	0.52 [0.39]	0.43	2.28	1.54	0.93	1.27	0.49 J	0.76 J [1.16 J]
Barium	mg/kg	38.0	9.09	45.4	36.2	12.5	12.4	6.15 [5.2]	3.54	12.2	16.2	2.93	19.0	4.96	21.5 [24.3]
Beryllium	mg/kg	0.32	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.21	<0.20	<0.20	<0.21	<0.21	<0.20	<0.20 [<0.2]
Boron	mg/kg	<4.8	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1 [<3.9]	<4.2	<4.0	<4.0	<4.3	<4.2	<4.0	<4.0 [<4]
Cadmium	mg/kg	0.12	<0.10	0.16	<0.10	0.11	<0.10	<0.10 [<0.1]	<0.10	<0.10	<0.10	<0.10	1.33 ¹	<0.10 J	0.12 J [0.13 J]
Chromium	mg/kg	8.53	1.48	5.49	4.81	2.46	2.45	0.89 [0.89]	0.92	1.51	2.74	0.69	3.25	0.94	2.15 [2.34]
Cobalt	mg/kg	5.92	4.55	4.33	3.25	2.73	2.01	1.31 [1.06]	0.62	1.66	2.75	0.76	1.71	1.90	2.13 [2.7]
Copper	mg/kg	15.8	4.95	8.92	7.21	4.73	7.75	1.39 [1.11]	2.65	4.43	7.85	2.20	11.3	2.26	8.27 [11]
Lead	mg/kg	7.23	4.00	2.64	2.78	2.50	3.77	4.26 [1.59]	1.93	2.71	3.92	1.68	55.7 ¹	1.69 J	5.16 J [24.1 J]
Manganese	mg/kg	796 ^{abi}	163	370	395	154	216	111 [74]	96.8	185	229	254	248	97.3	256 [137]
Mercury	mg/kg	0.0113	0.0080	0.0116	0.0101	<0.0055	<0.0055	<0.0055 [0.0057]	<0.0058	0.0063	0.0098	<0.0063	0.0111	<0.0059	0.0136 [0.0108]
Nickel	mg/kg	15.6	4.32	8.93	7.80	6.29	6.83	3.63 [2.85]	2.99	6.18	9.88	3.92	5.94	2.65	6.19 [6.41]
Selenium	mg/kg	<0.24	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.21	<0.20	0.30	<0.21	<0.21	<0.20	<0.20 [0.28]
Silver	mg/kg	<0.12	0.58	<0.10	<0.10	<0.10	<0.10	<0.10 [<0.1]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10 [<0.1]
Thallium	mg/kg	<0.24	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.21	<0.20	<0.20	<0.21	<0.21	<0.20	<0.20 [<0.2]
Vanadium	mg/kg	11.8	2.27	8.00	7.51	5.21	4.30	1.20 [1.2]	0.99	2.49	4.21	1.29	2.83	1.30	5.85 [6.66]
Zinc	mg/kg	22.8	4.34	8.97	7.53	9.04	11.9	2.76 [2.23]	2.61	7.67	12.1	9.09	28.6	4.31 J	7.22 J [10 J]
Miscellaneous															
Total solids	%	73	87	90	79	89	92	91 [91]	85	91	91	79	87	85	85 [88]

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-OG138A* 12 - 13 05/10/12	SB-A5.2-OG138A* 18 - 19 05/10/12	SB-A5.2-OG144* 0 - 1 05/04/12	SB-A5.2-OG144* 7 - 8 05/04/12	SB-A5.2-OG144* 12 - 13 05/04/12	SB-A5.2-OG144* 21 - 22 05/04/12	SB-A5.2-OG162* 0 - 1 05/07/12	SB-A5.2-OH162* 1 - 2 05/10/12	SB-A5.2-OH162* 7 - 8 05/10/12	SB-A5.2-OH162* 13 - 14 05/10/12	SB-A5.2-OH162* 24 - 25 05/10/12	SB-A5.3-OC169 1 - 2 05/31/12	SB-A5.3-OC169 6 - 7 05/31/12	SB-A5.3-OC169 16 - 17 05/31/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
1,2-Dichlorobenzene	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
1,4-Dichlorobenzene	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
2-Hexanone	ug/kg	<740	<720	<670	<680 [<740]	<770 [<790]	<770	<700	<730	<820	<730	<760	<800	<810	<810
Acetone	ug/kg	2,900 JB	2,500 JB	<1,700	<1,700 [<1,900]	<1,900 [2,000 J]	<1,900	<1,700	4,100 JB	2,700 JB	2,400 JB	2,200 JB	100,000 B ^{ab}	<2,000	<2,000
Bromodichloromethane	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
Bromoform	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
Carbon tetrachloride	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
Chlorobenzene	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
Chloroform (Trichloromethane)	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
Chloromethane (Methyl chloride)	ug/kg	<190	<180	<170	<170 [<190]	<190 [<200]	<190	<170	<180	<210	<180	<190	<200	<200	<200
cis-1,3-Dichloropropene	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
Styrene	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
trans-1,3-Dichloropropene	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
1,4-Dioxane	ug/kg	<740	<720	<670 J	<680 J [<740 J]	<770 J [<790 J]	<770 J	<700	<730	<820	<730	<760	<800	<810	<810
1,1,1-Trichloroethane	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
1,1,2,2-Tetrachloroethane	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
1,1,2-Trichloroethane	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
1,1-Dichloroethane	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	94	<76	<80	<81	<81
1,1-Dichloroethene	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
1,2-Dichloroethane	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
cis-1,2-Dichloroethene	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	19 J	<81
trans-1,2-Dichloroethene	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
Trichloroethene	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
Tetrachloroethene	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	42 J	140 ^a	<81
Vinyl chloride	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
Chloroethane	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
Benzene	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
Ethylbenzene	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
Toluene	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
o-Xylene	ug/kg	<74	<72	31 J	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
m&p-Xylene	ug/kg	<150	<140	<130	<140 [<150]	<150 [<160]	<150	<140	<150	<160	<150	<150	<160	<160	<160
Xylene (total)	ug/kg	<224	<212	31 J	<208 [<224]	<227 [<239]	<227	<210	<223	<242	<223	<226	<240	<241	<241
Methyl tert butyl ether (MTBE)	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<740	<720	<670	<680 [<740]	<770 [<790]	<770	<700	<730	<820	<730	<760	<800	<810	<810
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<740	<720	<670	<680 [<740]	<770 [<790]	<770	<700	<730	<820	<730	<760	<800	<810	<810
1,2,4-Trichlorobenzene	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
1,2,4-Trimethylbenzene	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
1,3,5-Trimethylbenzene	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
1,2-Dichloropropane	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
1,3-Dichlorobenzene	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
Cyclohexane	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
Methyl cyclohexane	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
Dibromochloromethane	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
Isopropyl benzene	ug/kg	<74	<72	<67	<68 [<74]	<77 [<79]	<77	<70	<73	<82	<73	<76	<80	<81	<81
Naphthalene	ug/kg	<74	<72	73	<68 [<74]	<77 [<79]	<77	23 J	<73	<82	<73	<76	<80	<81	<81

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-OG138A* 12 - 13 05/10/12	SB-A5.2-OG138A* 18 - 19 05/10/12	SB-A5.2-OG144* 0 - 1 05/04/12	SB-A5.2-OG144* 7 - 8 05/04/12	SB-A5.2-OG144* 12 - 13 05/04/12	SB-A5.2-OG144* 21 - 22 05/04/12	SB-A5.2-OG162* 0 - 1 05/07/12	SB-A5.2-OH162* 1 - 2 05/10/12	SB-A5.2-OH162* 7 - 8 05/10/12	SB-A5.2-OH162* 13 - 14 05/10/12	SB-A5.2-OH162* 24 - 25 05/10/12	SB-A5.3-OC169 1 - 2 05/31/12	SB-A5.3-OC169 6 - 7 05/31/12	SB-A5.3-OC169 16 - 17 05/31/12
	Units														
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<600	<40 [<40]	<40 [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40	<40	<600 J	<40 J [<40]	<40 J [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
2,4,6-Trichlorophenol	ug/kg	<40	<40	<600 J	<40 J [<40]	<40 J [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
2,4-Dichlorophenol	ug/kg	<40	<40	<600 J	<40 J [<40]	<40 J [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
2,4,5-Trichlorophenol	ug/kg	<40	<40	<600 X	<40 [<40]	<40 [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
2,4-Dimethylphenol	ug/kg	<40	<40	<600 J	<40 J [<40]	<40 J [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
2,4-Dinitrophenol	ug/kg	<40	<40	<600	<40 [<40]	<40 [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
2,4-Dinitrotoluene	ug/kg	<40	<40	<600	<40 [<40]	<40 [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
2,6-Dinitrotoluene	ug/kg	<40	<40	<600 J	<40 J [<40]	<40 J [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
2-Chloronaphthalene	ug/kg	<40	<40	<600 J	<40 J [<40]	<40 J [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
2-Chlorophenol	ug/kg	<40	<40	<600	<40 [<40]	<40 [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
2-Methylnaphthalene	ug/kg	<40	<40	<600	<40 [<40]	<40 [<40]	<40	800 X	<40	<300	<40	<40	<40	<40	<40
2-Methylphenol	ug/kg	<40	<40	<600	<40 [<40]	<40 [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
2-Nitroaniline	ug/kg	<40	<40	<600 J	<40 J [<40]	<40 J [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
2-Nitrophenol	ug/kg	<40	<40	<600 J	<40 J [<40]	<40 J [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
3&4-Methylphenol	ug/kg	<70	<80	<1,000	<80 [<80]	<70 [<70]	<80	<1,000	<70	<600	<70	<70	<80	<80	<70
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<600	<40 [<40]	<40 [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
Naphthalene	ug/kg	<40	<40	<600	<40 [<40]	<40 [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
3-Nitroaniline	ug/kg	<40	<40	<600	<40 [<40]	<40 [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<600	<40 [<40]	<40 [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
4-Chloro-3-methylphenol	ug/kg	<40	<40	<600	<40 [<40]	<40 [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
4-Chloroaniline	ug/kg	<40	<40	<600	<40 [<40]	<40 [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<600 J	<40 J [<40]	<40 J [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
4-Nitroaniline	ug/kg	<40	<40	<600	<40 [<40]	<40 [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
4-Nitrophenol	ug/kg	<40	<40	<600	<40 [<40]	<40 [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
Anthracene	ug/kg	<40	<40	3,000 X	<40 [<40]	<40 [<40]	<40	10,100 X	<40	<300	<40	<40	<40	<40	<40
Acenaphthene	ug/kg	<40	<40	1,300 X	<40 [<40]	<40 [<40]	<40	3,200 X	<40	<300	<40	<40	<40	<40	<40
Acenaphthylene	ug/kg	<40	<40	<600	<40 [<40]	<40 [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
Acetophenone	ug/kg	<40	<40	<600	<40 J [<40]	<40 J [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
Atrazine	ug/kg	<40	<40	<600 J	<40 J [<40]	<40 J [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
Benzaldehyde	ug/kg	<40	<40	<600	<40 [<40]	<40 [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
Benzo(a)anthracene	ug/kg	<40	<40	6,400 X	<40 [<40]	<40 [<40]	<40	27,200 X	<40	<300	<40	<40	210	<40	<40
Benzo(a)pyrene	ug/kg	<40	<40	6,900 J	<40 J [<40]	<40 J [<40]	<40	28,000 J ^f	<40	<300	<40	<40	220 J	<40	<40
Benzo(b)fluoranthene	ug/kg	<40	<40	14,100 Xpl	<40 [<40]	<40 [<40]	<40	56,700 J	<40	<300	<40	<40	620 J	<40	<40
Benzo(g,h,i)perylene	ug/kg	<40	<40	2,800 XI	<40 [<40]	<40 [<40]	<40	10,300 J	<40	<300	<40	<40	60 J	<40	<40
Benzo(k)fluoranthene	ug/kg	<40	<40	14,300 Xpl	<40 [<40]	<40 [<40]	<40	57,400 J	<40	<300	<40	<40	640 J	<40	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<600 J	<40 J [<40]	<40 J [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<600 J	<40 J [<40]	<40 J [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<600 J	<40 J [<40]	<40 J [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70	<80	36,000 J	<80 J [<80]	<70 J [<70]	<80	19,000 X	<70	<600	<70	<70	<80	<80	<70
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<600 J	<40 J [<40]	<40 J [<40]	<40	<600	<40	<300	<40	<40	100	<40	<40
Caprolactam	ug/kg	<40	<40	<600	<40 [<40]	<40 [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
Carbazole	ug/kg	<40	<40	1,500 X ^b	<40 [<40]	<40 [<40]	<40	5,400 X ^b	<40	<300	<40	<40	40	<40	<40
Chrysene	ug/kg	<40	<40	6,400 X	<40 [<40]	<40 [<40]	<40	27,900 X	<40	<300	<40	<40	320	<40	<40
Dibenz(a,h)anthracene	ug/kg	<70	<80	<1,000	<80 [<80]	<70 [<70]	<80	3,000 J	<70	<600	<70	<70	<80 J	<80	<70
Dibenzofuran	ug/kg	<40	<40	700 J	<40 J [<40]	<40 J [<40]	<40	2,000 X ^b	<40	<300	<40	<40	<40	<40	<40
Diethyl phthalate	ug/kg	<70	<80	<1,000 J	<80 J [<80]	<70 J [<70]	<80	<1,000	<70	<600	<70	<70	<80	<80	<70
Dimethyl phthalate	ug/kg	<180 B	<150 B	<600 J	<40 J [<40]	<40 J [<40]	<40	<600	<160 B	<400 B	<70 B	<110 B	<80 B	<50 B	<50 B
Di-n-butylphthalate (DBP)	ug/kg	<70	<80	<1,000 J	<80 J [<80]	<70 J [<70]	<80	<1,000	<70	<600	<70	<70	<100 B	<80	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<70	<80	<1,000 J	<80 J [<80]	<70 J [<70]	<80	<1,000 J	<70	<600	<70	<70	<80 J	<80	<70
Fluoranthene	ug/kg	<40	<40	14,600 X ^b	<40 [<40]	<40 [<40]	<40	56,800 X ^b	<40	<300	<40	<40	670	<40	<40
Fluorene	ug/kg	<40	<40	1,200 X	<40 [<40]	<40 [<40]	<40	3,400 X	<40	<300	<40	<40	<40	<40	<40
Hexachlorobenzene	ug/kg	<40	<40	<600	<40 [<40]	<40 [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
Hexachlorobutadiene	ug/kg	<40	<40	<600 J	<40 J [<40]	<40 J [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
Hexachlorocyclopentadiene	ug/kg	<40	<40	<600	<40 [<40]	<40 [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
Hexachloroethane	ug/kg	<40	<40	<600 J	<40 J [<40]	<40 J [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	2,800 XI	<40 [<40]	<40 [<40]	<40	10,300 J	<40	<300	<40	<40	70 J	<40	<40
Isophorone	ug/kg	<40	<40	<600 J	<40 J [<40]	<40 J [<40]	<40	<600	<40	<300	<40	<40	<40 J	<40 J	<40 J
Nitrobenzene	ug/kg	<40	<40	<600 J	<40 J [<40]	<40 J [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<600	<40 [<40]	<40 [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
N-Nitrosodiphenylamine	ug/kg	<40	<40	<600	<40 [<40]	<40 [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
Pentachlorophenol	ug/kg	<40	<40	<600	<40 [<40]	<40 [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
Phenanthrene	ug/kg	<40	<40	11,800 X ^b	<40 [<40]	<40 [<40]	<40	34,100 X ^b	<40	<300	<40	<40	310	<40	<40
Phenol	ug/kg	<40	<40	<600	<40 [<40]	<40 [<40]	<40	<600	<40	<300	<40	<40	<40	<40	<40
Pyrene	ug/kg	<40	<40	15,700 X	<40 [<40]	<40 [<40]	<40	56,600 X	<40	<300	<40	<40	550	<40	<40

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.2-OG138A* 12 - 13 05/10/12	SB-A5.2-OG138A* 18 - 19 05/10/12	SB-A5.2-OG144* 0 - 1 05/04/12	SB-A5.2-OG144* 7 - 8 05/04/12	SB-A5.2-OG144* 12 - 13 05/04/12	SB-A5.2-OG144* 21 - 22 05/04/12	SB-A5.2-OG162* 0 - 1 05/07/12	SB-A5.2-OH162* 1 - 2 05/10/12	SB-A5.2-OH162* 7 - 8 05/10/12	SB-A5.2-OH162* 13 - 14 05/10/12	SB-A5.2-OH162* 24 - 25 05/10/12	SB-A5.3-OC169 1 - 2 05/31/12	SB-A5.3-OC169 6 - 7 05/31/12	SB-A5.3-OC169 16 - 17 05/31/12
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	<3	<3	<3	<3 [<3]	<3 [<3]	<3	<5	<3	<3	<5 X	<3	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	<3	<3	<3	<3 [<3]	<3 [<3]	<3	<5	<3	<3	<5 X	<3	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	<3	<3	<3	<3 [<3]	<3 [<3]	<3	<5	<3	<3	<5 X	<3	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	<3	<3	<3	<3 [<3]	<3 [<3]	<3	<5	<3	<3	<5 X	<3	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	<3	<3	<3	<3 [<3]	<3 [<3]	<3	<5	<3	<3	<5 X	<3	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	<3	<3	<30	<3 [<3]	<3 [<3]	<3	<30	<3	9	<5 X	<3	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	<3	<3	<3	<3 [<3]	<3 [<3]	<3	<5	<3	<3	<5 X	<3	NA	NA	NA
Total PCBs	ug/kg	ND	ND	ND	ND [ND]	ND [ND]	ND	ND	ND	9	ND	ND	NA	NA	NA
Inorganics															
Antimony	mg/kg	<0.20	<0.20	0.91	<0.20 [<0.21]	<0.21 [<0.2]	<0.21	0.56	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20
Arsenic	mg/kg	0.84 J	1.94 J	3.06	0.26 [0.29]	1.38 [1.31]	5.30	2.87	0.51 J	1.32 J	0.71 J	1.97 J	1.09	1.21	1.44
Barium	mg/kg	28.2	31.3	468 ⁱ	12.5 [13.1]	15.8 [16.8]	26.4	268 ⁱ	7.27	57.2	21.0	23.0	34.0	98.8 ⁱ	25.2
Beryllium	mg/kg	<0.20	<0.20	0.47	<0.20 [<0.21]	<0.21 [<0.2]	<0.21	0.46	<0.20	0.22	<0.20	<0.20	0.35	0.55	<0.20
Boron	mg/kg	<4.0	<4.0	8.89	<4.1 [<4.3]	<4.2 [<4]	<4.2	17.5 ^a	<4.0	<4.0	<4.0	<4.0	<4.1	<4.2	<4.0
Cadmium	mg/kg	<0.10 J	<0.10 J	3.09 ⁱ	<0.10 [<0.1]	<0.10 [<0.1]	<0.10	22.0 ^{abi}	<0.10 J	0.19 J	0.11 J	<0.10 J	0.11	0.94	0.10
Chromium	mg/kg	2.08	2.78	191 ⁱ	1.34 [1.73]	2.17 [2.08]	3.69	25.8 ⁱ	1.26	3.16	3.33	2.84	5.09	12.7	4.82
Cobalt	mg/kg	1.58	2.62	13.7 ^{abi}	0.60 [0.76]	2.45 [2.82]	2.82	4.12	1.41	1.79	2.25	2.60	4.07	7.59 ^{abi}	3.06
Copper	mg/kg	6.82	9.19	54.3 ⁱ	4.59 [4.74]	8.77 [8.12]	8.82	41.1 ⁱ	1.49	6.66	10.2	7.22	5.75	14.6	9.02
Lead	mg/kg	4.00 J	4.29 J	1,160 ^{aff}	2.59 [2.92]	4.36 [4.11]	4.07	230 ⁱ	2.03 J	2.99 J	3.66 J	3.39 J	8.32	7.19	3.84
Manganese	mg/kg	222	253	386	56.9 [61.6]	226 [224]	216	478 ^{abi}	143	317	233	215	152	759 ^{abi}	234
Mercury	mg/kg	0.0108	0.0161	0.0474	0.0065 [0.0082]	0.0072 [0.0073]	0.0097	0.0518	0.0097	0.0146	0.0098	0.0096	0.0271	0.0203	0.0112
Nickel	mg/kg	5.58	8.44	342 ^{abi}	2.26 [2.68]	8.26 [7.77]	7.84	17.8	3.09	6.87	7.91	7.58	6.31	20.9 ⁱ	9.63
Selenium	mg/kg	0.22	<0.20	<0.20	<0.20 [<0.21]	0.38 [0.21]	<0.21	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	0.26	0.26
Silver	mg/kg	<0.10	<0.10	0.16	<0.10 [<0.1]	<0.10 [<0.1]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.19	<0.10	<0.10
Thallium	mg/kg	<0.20	<0.20	<0.20	<0.20 [<0.21]	<0.21 [<0.2]	<0.21	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20
Vanadium	mg/kg	3.60	4.15	10.8	2.83 [3.14]	4.60 [4.04]	4.14	8.92	1.53	8.99	5.57	4.74	8.25	15.9	7.43
Zinc	mg/kg	7.07 J	10.9 J	1,020 ^{bi}	3.83 [5.1]	13.0 [12.3]	10.3	811 ^{bi}	2.67 J	7.82 J	15.7 J	9.85 J	12.5	26.5	15.3
Miscellaneous															
Total solids	%	89	83	83	88 [88]	89 [90]	88	80	90	85	89	90	88	82	89

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.3-OC175 1 - 2 05/31/12	SB-A5.3-OC175 5 - 6 05/31/12	SB-A5.3-OC175 16 - 17 05/31/12	SB-A5.3-OI169 1 - 2 05/31/12	SB-A5.3-OI169 6 - 7 05/31/12	SB-A5.3-OI169 16 - 17 05/31/12	SB-A5.3-OI175 1 - 2 05/31/12	SB-A5.3-OI175 5 - 6 05/31/12	SB-A5.3-OI175 15 - 16 05/31/12	SB-A5.3-OQ168 1 - 2 05/30/12	SB-A5.3-OQ168 6 - 7 05/30/12	SB-A5.3-OQ168 16 - 17 05/30/12	SB-A5.3-OQ175 1 - 2 05/30/12	SB-A5.3-OQ175 6 - 7 05/30/12	SB-A5.3-OQ175 16 - 17 05/30/12
Volatile Organics																
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
1,2-Dichlorobenzene	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
1,4-Dichlorobenzene	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
2-Hexanone	ug/kg	<840	<840	<800	<830	<780	<780	<880	<830	<810	<970	<800	<770	<820	<820	<790
Acetone	ug/kg	<2,100 J	<2,100	<2,000	<2,100	<2,000	<1,900	<2,200	<2,100	<2,000	<2,400 J	<2,000 J	<1,900 J	<2,000 J	<2,100 J	<2,000 J
Bromodichloromethane	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
Bromoform	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
Carbon tetrachloride	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
Chlorobenzene	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
Chloroform (Trichloromethane)	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
Chloromethane (Methyl chloride)	ug/kg	<210	<210	<200	<210	<200	<190	<220	<210	<200	<240	<200	<190	<200	<210	<200
cis-1,3-Dichloropropene	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
Styrene	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
trans-1,3-Dichloropropene	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
1,4-Dioxane	ug/kg	<840	<840	<800	<830	<780	<780	<880	<830	<810	<970	<800	<770	<820	<820	<790
1,1,1-Trichloroethane	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	19 J	150 J	<79
1,1,2,2-Tetrachloroethane	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
1,1,2-Trichloroethane	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
1,1-Dichloroethane	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	280	<79
1,1-Dichloroethene	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
1,2-Dichloroethane	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
cis-1,2-Dichloroethene	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
trans-1,2-Dichloroethene	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
Trichloroethene	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
Tetrachloroethene	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
Vinyl chloride	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
Chloroethane	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
Benzene	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
Ethylbenzene	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
Toluene	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
o-Xylene	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
m&p-Xylene	ug/kg	<170	<170	<160	<170	<160	<160	<180	<170	<160	<190	<160	<150	<160	<160	<160
Xylene (total)	ug/kg	<254	<254	<240	<253	<238	<238	<268	<253	<241	<287	<240	<227	<242	<242	<239
Methyl tert butyl ether (MTBE)	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<840	<840	<800	<830	<780	<780	<880	<830	<810	<970	<800	<770	<820	<820	<790
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<840	<840 J	<800	<830	<780	<780 J	<880 J	<830 J	<810 J	<970	<800	<770	<820	<820	<790
1,2,4-Trichlorobenzene	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
1,2,4-Trimethylbenzene	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
1,3,5-Trimethylbenzene	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
1,2-Dichloropropane	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
1,3-Dichlorobenzene	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
Cyclohexane	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
Methyl cyclohexane	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
Dibromochloromethane	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
Isopropyl benzene	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	<82	<79
Naphthalene	ug/kg	<84	<84	<80	<83	<78	<78	<88	<83	<81	<97	<80	<77	<82	44 J	<79

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.3-OC175 1 - 2 05/31/12	SB-A5.3-OC175 5 - 6 05/31/12	SB-A5.3-OC175 16 - 17 05/31/12	SB-A5.3-OI169 1 - 2 05/31/12	SB-A5.3-OI169 6 - 7 05/31/12	SB-A5.3-OI169 16 - 17 05/31/12	SB-A5.3-OI175 1 - 2 05/31/12	SB-A5.3-OI175 5 - 6 05/31/12	SB-A5.3-OI175 15 - 16 05/31/12	SB-A5.3-OQ168 1 - 2 05/30/12	SB-A5.3-OQ168 6 - 7 05/30/12	SB-A5.3-OQ168 16 - 17 05/30/12	SB-A5.3-OQ175 1 - 2 05/30/12	SB-A5.3-OQ175 6 - 7 05/30/12	SB-A5.3-OQ175 16 - 17 05/30/12
Units																
Semivolatile Organics																
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<200	<40	<40	<40	<40	<40 J	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
2,4,6-Trichlorophenol	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
2,4-Dichlorophenol	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
2,4,5-Trichlorophenol	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
2,4-Dimethylphenol	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
2,4-Dinitrophenol	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
2,4-Dinitrotoluene	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
2,6-Dinitrotoluene	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
2-Chloronaphthalene	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
2-Chlorophenol	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
2-Methylnaphthalene	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
2-Methylphenol	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
2-Nitroaniline	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
2-Nitrophenol	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300 J	<800 J	<40
3&4-Methylphenol	ug/kg	<300	<80	<70	<80	<70	<70	<100	<70	<70	<80	<80	<2,000 J	<600	<2,000 J	<70
3,3'-Dichlorobenzidine	ug/kg	<200	<40	<40	<40	<40	<40 J	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Naphthalene	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
3-Nitroaniline	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
4-Bromophenyl phenyl ether	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
4-Chloro-3-methylphenol	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
4-Chloroaniline	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
4-Chlorophenyl phenyl ether	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
4-Nitroaniline	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
4-Nitrophenol	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Anthracene	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	1,400 J	<40
Acenaphthene	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Acenaphthylene	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Acetophenone	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Atrazine	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Benzaldehyde	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Benzo(a)anthracene	ug/kg	200	<40	<40	110	<40	<40 J	120	<40	<40	<40	<40	<800 J	<300	800 J	<40
Benzo(a)pyrene	ug/kg	200	<40	<40	110	<40	<40 J	80	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Benzo(b)fluoranthene	ug/kg	500 J	<40	<40	270 J	<40	<40 J	240 J	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Benzo(g,h,i)perylene	ug/kg	200	<40	<40	40	<40	<40 J	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Benzo(k)fluoranthene	ug/kg	500 J	<40	<40	270 J	<40	<40 J	250 J	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
bis(2-Chloroethoxy)methane	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
bis(2-Chloroethyl)ether	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<300	<80	<70	<80	<70	<70 J	<100	<70	<70	<80	<80	<2,000 J	<600	<2,000 J	<70
Butyl benzylphthalate (BBP)	ug/kg	<200	<40	<40	<40	<40	<40 J	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Caprolactam	ug/kg	<200	<40	<40	<40	<40	<40 J	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Carbazole	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Chrysene	ug/kg	300	<40	<40	130	<40	<40 J	140	<40	<40	<40	<40	<800 J	<300	900 J	<40
Dibenz(a,h)anthracene	ug/kg	<300	<80	<70	<80	<70	<70 J	<100	<70	<70	<80	<80	<2,000 J	<600	<2,000 J	<70
Dibenzofuran	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Diethyl phthalate	ug/kg	<300	<80	<70	<80	<70	<70	<100	<70	<70	<80	<80	<2,000 J	<600	<2,000 J	<70
Dimethyl phthalate	ug/kg	<400 B	<80 B	<50 B	<140 B	<40 B	<40 B	<170 B	<60 B	<100 B	<180 B	<250 B	<800 J	<400 B	<800 J	<230 B
Di-n-butylphthalate (DBP)	ug/kg	<300	<80	<70	<80	<70	<70	<100	<70	<70	<80	<80	<2,000 J	<600	<2,000 J	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<300	<80	<70	<80	<70	<70 J	<100	<70	<70	<80	<80	<2,000 J	<600	<2,000 J	<70
Fluoranthene	ug/kg	500	<40	<40	220	<40	<40	200	<40	<40	70	<40	<800 J	<300	<800 J	<40
Fluorene	ug/kg	<200	<40	<40	<40	<40	<40 J	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Hexachlorobenzene	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Hexachlorobutadiene	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Hexachlorocyclopentadiene	ug/kg	<200	<40	<40	<40	<40	<40 J	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Hexachloroethane	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<200	<40	<40	50	<40	<40 J	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Isophorone	ug/kg	<200	<40	<40 J	<40 J	<40 J	<40 J	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Nitrobenzene	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300 J	<800 J	<40
N-Nitrosodi-n-propylamine	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
N-Nitrosodiphenylamine	ug/kg	<200	<40	<40	<40	<40	<40 J	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Pentachlorophenol	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Phenanthrene	ug/kg	200	<40	<40	90	<40	<40	<70	<40	<40	70	<40	<800 J	<300	1,400 J	<40
Phenol	ug/kg	<200	<40	<40	<40	<40	<40	<70	<40	<40	<40	<40	<800 J	<300	<800 J	<40
Pyrene	ug/kg	400	<40	<40	180	<40	<40 J	220	<40	<40	70	<40	<800 J	<300	800 J	<40

TABLE 12 RFI Phase 2 Summary Report RACER Plant 2 Summary of Soil Sample Analytical Results																
Location ID: Sample Depth(ft): Date Collected:		SB-A5.3-OC175 1 - 2 05/31/12	SB-A5.3-OC175 5 - 6 05/31/12	SB-A5.3-OC175 16 - 17 05/31/12	SB-A5.3-OI169 1 - 2 05/31/12	SB-A5.3-OI169 6 - 7 05/31/12	SB-A5.3-OI169 16 - 17 05/31/12	SB-A5.3-OI175 1 - 2 05/31/12	SB-A5.3-OI175 5 - 6 05/31/12	SB-A5.3-OI175 15 - 16 05/31/12	SB-A5.3-OQ168 1 - 2 05/30/12	SB-A5.3-OQ168 6 - 7 05/30/12	SB-A5.3-OQ168 16 - 17 05/30/12	SB-A5.3-OQ175 1 - 2 05/30/12	SB-A5.3-OQ175 6 - 7 05/30/12	SB-A5.3-OQ175 16 - 17 05/30/12
Units																
PCBs																
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																
Antimony	mg/kg	<0.22	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.22	<0.21	<0.21	<0.22	<0.21	<0.21
Arsenic	mg/kg	0.71	1.07	2.20	0.61	1.01	2.17	1.08	1.05	2.00	1.20	1.18	1.91	1.93	1.60	1.98
Barium	mg/kg	22.0	15.8	26.8	67.5	42.1	23.4	21.2	21.8	24.8	54.2	33.3	36.2	78.5 ⁱ	28.2	27.2
Beryllium	mg/kg	<0.22	<0.20	<0.20	0.49	0.26	<0.20	<0.20	<0.20	<0.20	0.41	<0.21	0.23	0.48	<0.21	<0.21
Boron	mg/kg	<4.4	<4.1	<4.0	<4.2	<4.0	<4.1	<4.0	<4.0	<4.0	<4.0	<4.2	<4.3	<4.4	<4.2	<4.2
Cadmium	mg/kg	0.14	<0.10	<0.10	0.14	0.11	<0.10	0.25	<0.10	<0.10	0.14	<0.10	0.12	0.17	<0.10	<0.10
Chromium	mg/kg	2.58	3.49	4.93	7.97	7.36	4.89	3.00	5.22	4.39	8.37	6.85	8.03	12.2	6.55	4.71
Cobalt	mg/kg	12.9 ^{abi}	1.34	3.25	5.76	4.08	3.08	3.55	2.71	2.89	5.84	3.51	5.03	12.5 ^{abi}	4.35	3.02
Copper	mg/kg	3.81	3.75	9.30	10.9	7.08	7.66	6.27	6.84	6.97	7.89	5.68	10.2	8.74	9.65	7.47
Lead	mg/kg	4.89	2.65	4.07	9.45	4.13	3.75	31.4 ⁱ	3.55	3.53	8.11	3.91	5.08	9.83	4.33	3.84
Manganese	mg/kg	85.0	128	221	189	198	220	242	177	236	248	258	300	671 ^{abi}	245	217
Mercury	mg/kg	0.0253	<0.0058	0.0065	0.0299	0.0120	0.0083	0.0212	0.0077	0.0070	0.0366	0.0102	0.0088	0.0462	0.0102	0.0083
Nickel	mg/kg	2.58	6.47	9.85	10.2	10.9	9.45	6.43	7.48	9.19	10.7	11.7	12.7	11.5	10.8	9.67
Selenium	mg/kg	<0.22	<0.20	<0.20	<0.21	0.24	0.28	<0.20	<0.20	<0.20	<0.20 J	<0.21 J	<0.21 J	<0.22 J	<0.21 J	<0.21 J
Silver	mg/kg	1.16 ^{bi}	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.20	<0.10	<0.10	1.04 ^{bi}	<0.10	<0.10
Thallium	mg/kg	<0.22	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.21	<0.22	<0.21	<0.21
Vanadium	mg/kg	4.97	5.94	7.49	8.07	10.1	7.32	5.72	8.41	7.33	11.7	9.77	12.8	17.7	11.0	7.44
Zinc	mg/kg	8.48	7.48	14.2	31.4	15.9	14.2	37.2	9.68	12.9	19.3	13.9	18.4	23.4	14.8	12.4
Miscellaneous																
Total solids	%	81	87	90	86	89	91	91	91	91	83	83	87	80	88	90

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.3-OR159 1 - 2 05/30/12	SB-A5.3-OR159 7 - 8 05/30/12	SB-A5.3-OR159 14.5 - 15.5 05/30/12	SB-A5.3-OT127 1 - 2 06/01/12	SB-A5.3-OT127 6 - 7 06/01/12	SB-A5.3-OT127 16 - 17 06/01/12	SB-A5.3-OV154 1.3 - 2 05/30/12	SB-A5.3-OV154 7.5 - 8.5 05/30/12	SB-A5.3-OV154 16 - 17 05/30/12	SB-A5.3-OV163 1.3 - 2 05/30/12	SB-A5.3-OV163 6 - 7 05/30/12	SB-A5.3-OV163 16 - 17 05/30/12	SB-A5.3-OW168 1 - 2 05/30/12	SB-A5.3-OW168 5 - 6 05/30/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
1,2-Dichlorobenzene	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
1,4-Dichlorobenzene	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
2-Hexanone	ug/kg	<820	<800	<790 [<820]	<850	<1,000	<800	<880	<780	<770	<760	<780	<820	<810	<790
Acetone	ug/kg	<2,100	<2,000	<2,000 [<2,100]	<2,100	2,600	2,000	<2,200	<1,900	<1,900	<1,900	<2,000	<2,000 J	<2,000 J	<2,000 J
Bromodichloromethane	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
Bromoform	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
Carbon tetrachloride	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
Chlorobenzene	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
Chloroform (Trichloromethane)	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
Chloromethane (Methyl chloride)	ug/kg	<210	<200	<200 [<210]	<210	<250	<200	<220	<190	<190	<190	<200	<200	<200	<200
cis-1,3-Dichloropropene	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
Styrene	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
trans-1,3-Dichloropropene	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
1,4-Dioxane	ug/kg	<820	<800	<790 [<820]	<850	<1,000	<800	<880	<780	<770	<760	<780	<820	<810	<790
1,1,1-Trichloroethane	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	250 J	1,000 J
1,1,2,2-Tetrachloroethane	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
1,1,2-Trichloroethane	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
1,1-Dichloroethane	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	43 J
1,1-Dichloroethene	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
1,2-Dichloroethane	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
cis-1,2-Dichloroethene	ug/kg	<82	28 J	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
trans-1,2-Dichloroethene	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
Trichloroethene	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
Tetrachloroethene	ug/kg	<82	<80	<79 [<82]	<85	38 J	<80	<88	<78	<77	<76	<78	<82	47 J	<79
Vinyl chloride	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
Chloroethane	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
Benzene	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
Ethylbenzene	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
Toluene	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
o-Xylene	ug/kg	<82	<80	<79 [<82]	<85	20 J	<80	<88	<78	<77	<76	<78	<82	<81	<79
m&p-Xylene	ug/kg	<160	<160	<160 [<160]	<170	<200	<160	<180	<160	<150	<150	<160	<160	<160	<160
Xylene (total)	ug/kg	<242	<240	<239 [<242]	<255	20 J	<240	<268	<238	<227	<226	<238	<242	<241	<239
Methyl tert butyl ether (MTBE)	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<820	<800	<790 [<820]	<850	<1,000	<800	<880	<780	<770	<760	<780	<820	<810	<790
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<820 J	<800 J	<790 J [<820 J]	<850	<1,000	<800	<880 J	<780 J	<770 J	<760 J	<780 J	<820	<810	<790
1,2,4-Trichlorobenzene	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
1,2,4-Trimethylbenzene	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
1,3,5-Trimethylbenzene	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
1,2-Dichloropropane	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
1,3-Dichlorobenzene	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
Cyclohexane	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
Methyl cyclohexane	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
Dibromochloromethane	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
Isopropyl benzene	ug/kg	<82	<80	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	<79
Naphthalene	ug/kg	1,900 ^b	170	<79 [<82]	<85	<100	<80	<88	<78	<77	<76	<78	<82	<81	140

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.3-OR159	SB-A5.3-OR159	SB-A5.3-OR159	SB-A5.3-OT127	SB-A5.3-OT127	SB-A5.3-OT127	SB-A5.3-OV154	SB-A5.3-OV154	SB-A5.3-OV154	SB-A5.3-OV163	SB-A5.3-OV163	SB-A5.3-OV163	SB-A5.3-OW168	SB-A5.3-OW168
		1 - 2	7 - 8	14.5 - 15.5	1 - 2	6 - 7	16 - 17	1.3 - 2	7.5 - 8.5	16 - 17	1.3 - 2	6 - 7	16 - 17	1 - 2	5 - 6
	Units	05/30/12	05/30/12	05/30/12	06/01/12	06/01/12	06/01/12	05/30/12	05/30/12	05/30/12	05/30/12	05/30/12	05/30/12	05/30/12	05/30/12
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
2,4,6-Trichlorophenol	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
2,4-Dichlorophenol	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
2,4,5-Trichlorophenol	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
2,4-Dimethylphenol	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
2,4-Dinitrophenol	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
2,4-Dinitrotoluene	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
2,6-Dinitrotoluene	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
2-Chloronaphthalene	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
2-Chlorophenol	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
2-Methylnaphthalene	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
2-Methylphenol	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
2-Nitroaniline	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
2-Nitrophenol	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
3&4-Methylphenol	ug/kg	<3,000 J	<1,000 J	<4,000 J [<2,000 J]	<600	<80	<80	<80	<2,000 J	<70	<800 J	<8,000 J	<70	<800 J	<70
3,3'-Dichlorobenzidine	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Naphthalene	ug/kg	3,000 J ^b	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	70
3-Nitroaniline	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
4-Bromophenyl phenyl ether	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
4-Chloro-3-methylphenol	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
4-Chloroaniline	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
4-Chlorophenyl phenyl ether	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
4-Nitroaniline	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
4-Nitrophenol	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Anthracene	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Acenaphthene	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Acenaphthylene	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Acetophenone	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Atrazine	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Benzaldehyde	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Benzo(a)anthracene	ug/kg	<1,000 J	1,500 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	400 J	<40
Benzo(a)pyrene	ug/kg	<1,000 J	1,400 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Benzo(b)fluoranthene	ug/kg	<1,000 J	2,400 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Benzo(g,h,i)perylene	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Benzo(k)fluoranthene	ug/kg	<1,000 J	2,500 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
bis(2-Chloroethoxy)methane	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
bis(2-Chloroethyl)ether	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<3,000 J	<1,000 J	<4,000 J [<2,000 J]	<600	<80	<80	<80	<2,000 J	<70	<800 J	<8,000 J	<70	<800 J	<70
Butyl benzylphthalate (BBP)	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Caprolactam	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Carbazole	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Chrysene	ug/kg	2,000 J	1,700 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Dibenz(a,h)anthracene	ug/kg	<3,000 J	<1,000 J	<4,000 J [<2,000 J]	<600	<80	<80	<80	<2,000 J	<70	<800 J	<8,000 J	<70	<800 J	<70
Dibenzofuran	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Diethyl phthalate	ug/kg	<3,000 J	<1,000 J	<4,000 J [<2,000 J]	<600	<80	<80	<80	<2,000 J	<70	<800 J	<8,000 J	<70	<800 J	<70
Dimethyl phthalate	ug/kg	1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<50 B	<100 B	<250 B	<1,000 J	<280 B	<400 J	<4,000 J	<240 B	<400 J	<200 B
Di-n-butylphthalate (DBP)	ug/kg	<3,000 J	<1,000 J	<4,000 J [<2,000 J]	<600	<80	<80	<80	<2,000 J	<70	<800 J	<8,000 J	<70	<800 J	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<3,000 J	<1,000 J	<4,000 J [<2,000 J]	<600	<80	<80	<80	<2,000 J	<70	<800 J	<8,000 J	<70	<800 J	<70
Fluoranthene	ug/kg	2,000 J	2,800 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	1,100 J	40
Fluorene	ug/kg	<1,000 J	600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Hexachlorobenzene	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Hexachlorobutadiene	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Hexachlorocyclopentadiene	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Hexachloroethane	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Isophorone	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Nitrobenzene	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
N-Nitrosodi-n-propylamine	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
N-Nitrosodiphenylamine	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	<40
Pentachlorophenol	ug/kg	<1,000 J	<600 J	<2,000 J [<1,000 J]	<300	<40	<40	<40	<1,000 J	<40	<400 J	<4,000 J	<40	<400 J	140 ^a
Phenanthrene	ug/kg	3,000 J ^b	2,900 J ^b	3,000 J [1,000 J] ^b	<300	<40	<40	<40	1,000 J	<40	<400 J	<4,000 J	<40	900 J	120
Phenol	ug/kg	<1,000 J													

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A5.3-OR159	SB-A5.3-OR159	SB-A5.3-OR159	SB-A5.3-OT127	SB-A5.3-OT127	SB-A5.3-OT127	SB-A5.3-OV154	SB-A5.3-OV154	SB-A5.3-OV154	SB-A5.3-OV163	SB-A5.3-OV163	SB-A5.3-OV163	SB-A5.3-OW168	SB-A5.3-OW168
		1 - 2	7 - 8	14.5 - 15.5	1 - 2	6 - 7	16 - 17	1.3 - 2	7.5 - 8.5	16 - 17	1.3 - 2	6 - 7	16 - 17	1 - 2	5 - 6
		05/30/12	05/30/12	05/30/12	06/01/12	06/01/12	06/01/12	05/30/12	05/30/12	05/30/12	05/30/12	05/30/12	05/30/12	05/30/12	05/30/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	<0.20	<0.22	<0.21 [<0.21]	<0.20	<0.20	<0.21	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Arsenic	mg/kg	0.55	0.58	1.15 [1.47]	0.72	0.33	1.43	0.63	0.82	1.40	2.71	1.39	2.72	1.52	1.74
Barium	mg/kg	14.0	59.9	17.0 [21.5]	8.39	31.6	35.3	91.2 ⁱ	30.7	30.7	32.5	6.06	19.3	56.7	49.1
Beryllium	mg/kg	<0.20	0.34	<0.21 [<0.21]	<0.20	<0.20	0.21	0.96	<0.20	0.22	0.23	<0.20	<0.20	0.59	0.31
Boron	mg/kg	<4.1	<4.4	<4.2 [<4.2]	<4.0	<4.1	<4.2	<4.2	<4.0	<4.0	7.05	<4.1	<4.1	<4.1	<4.0
Cadmium	mg/kg	<0.10	0.29	<0.10 [<0.1]	<0.10	<0.10	<0.10	0.18	<0.10	<0.10	<0.10	<0.10	<0.10	0.12	<0.10
Chromium	mg/kg	3.08	7.57	3.16 [5.12]	1.23	5.95	6.54	9.34	7.13	6.33	9.72	2.62	3.75	13.4	10.0
Cobalt	mg/kg	10.6 ^{abi}	3.98	2.28 [2.81]	1.67	3.02	4.56	7.62 ^{abi}	2.60	3.74	28.3 ^{abi}	1.86	3.01	8.61 ^{abi}	6.09
Copper	mg/kg	4.02	12.1	5.42 [7.66]	2.86	6.22	11.0	4.66	7.59	9.04	13.1	4.23	6.15	10.6	8.78
Lead	mg/kg	3.91	12.2	3.47 [3.51]	2.01	2.99	5.45	9.49	3.60	4.17	6.03	2.13	3.34	9.16	4.31
Manganese	mg/kg	99.6	148	173 [198]	123	81.4	330	256	187	220	264	113	177	189	316
Mercury	mg/kg	0.0078	0.0385	<0.0057 [<0.0054]	<0.0058	0.0160	0.0106	0.0531	0.0075	0.0091	<0.0058	<0.0058	0.0064	0.0359	0.0150
Nickel	mg/kg	3.66	8.36	6.47 [8.41]	3.93	8.58	12.5	8.47	8.82	10.8	11.9	4.68	8.44	14.9	15.6
Selenium	mg/kg	<0.20 J	<0.22 J	<0.21 J [<0.21 J]	<0.20	<0.20	0.24	<0.21 J	0.23 J	0.21 J	<0.20 J	<0.20	0.20 J	0.23 J	<0.20 J
Silver	mg/kg	1.33 ^{bi}	<0.11	<0.10 [<0.1]	<0.10	<0.10	<0.10	0.10	<0.10	<0.10	2.42 ^{bi}	0.13	<0.10	0.37	<0.10
Thallium	mg/kg	<0.20	<0.22	<0.21 [<0.21]	<0.20	<0.20	<0.21	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Vanadium	mg/kg	6.28	15.2	5.81 [7.17]	2.06	5.15	10.9	11.0	7.47	9.29	11.3	3.40	6.32	17.0	13.7
Zinc	mg/kg	11.3	29.6	13.3 [16.1]	6.41	14.1	22.7	19.7	19.0	16.2	13.0	10.1	14.7	23.0	20.2
Miscellaneous															
Total solids	%	79	79	89 [90]	86	86	88	84	90	91	87	86	92	86	95

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.3-OW168 16 - 17 05/30/12	SB-A5.3-OW175 1 - 2 05/31/12	SB-A5.3-OW175 5 - 6 05/31/12	SB-A5.3-OW175 16 - 17 05/31/12	SB-A5.3-OX123 1 - 2 06/01/12	SB-A5.3-OX124 10 - 11 06/05/12	SB-A5.3-OX124 14 - 15 06/05/12	SB-A5.3-OX132 1 - 2 06/01/12	SB-A5.3-OX132 7 - 8 06/01/12	SB-A5.3-OX132 16 - 17 06/01/12	SB-A5.3-OX180 7 - 8 09/17/12	SB-A5.3-OX180 17 - 18 09/17/12	SB-A5.3-PA159 1 - 2 05/31/12	SB-A5.3-PA159 5 - 6 05/31/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
1,2-Dichlorobenzene	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
1,4-Dichlorobenzene	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
2-Hexanone	ug/kg	<740 [<810]	<790	<780	<800	<770	<1,100 [<790]	<660	<930	<820	<820	NA	NA	<790	<810
Acetone	ug/kg	<1,900 [<2,000]	<2,000 J	<1,900 J	<2,000 J	<1,900	<1,100 [<790]	<660	2,800 B	<2,000	6,400 B	NA	NA	<2,000	<2,000 J
Bromodichloromethane	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
Bromoform	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	<100 [<80]	<70	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
Carbon tetrachloride	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
Chlorobenzene	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
Chloroform (Trichloromethane)	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
Chloromethane (Methyl chloride)	ug/kg	<190 [<200]	<200	<190	<200	<190	<100 [<80]	<70	<230	<200	<210	NA	NA	<200	<200
cis-1,3-Dichloropropene	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	<100 [<80]	<70	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	<1,100 [<790]	<660	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
Styrene	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
trans-1,3-Dichloropropene	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	<100 [<80]	<70	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
1,4-Dioxane	ug/kg	<740 [<810]	<790	<780	<800	<770	<10,000 [<8,000]	<7,000	<930	<820	<820	NA	NA	<790	<810
1,1,1-Trichloroethane	ug/kg	<74 [<81]	83 J	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
1,1,2,2-Tetrachloroethane	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
1,1,2-Trichloroethane	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
1,1-Dichloroethane	ug/kg	<74 [<81]	460	310	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
1,1-Dichloroethene	ug/kg	<74 [<81]	52 J	52 J	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
1,2-Dichloroethane	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
cis-1,2-Dichloroethene	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
trans-1,2-Dichloroethene	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
Trichloroethene	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
Tetrachloroethene	ug/kg	<74 [<81]	64 J	46 J	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
Vinyl chloride	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
Chloroethane	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
Benzene	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
Ethylbenzene	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
Toluene	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
o-Xylene	ug/kg	<74 [<81]	<79	<78	<80	25 J	<100 [<80]	<70	19 J	<82	<82	NA	NA	<79	<81
m&p-Xylene	ug/kg	<150 [<160]	<160	<160	<160	<150	<200 [<200]	<100	<190	<160	<160	NA	NA	<160	<160
Xylene (total)	ug/kg	<224 [<241]	<239	<238	<240	25 J	<300 [<280]	<170	19 J	<242	<242	NA	NA	<239	<241
Methyl tert butyl ether (MTBE)	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<740 [<810]	<790	<780	<800	<770	<1,100 [<790]	<660	<930	<820	<820	NA	NA	<790	<810
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<740 J [<810 J]	<790	<780	<800	<770	<1,100 [<790]	<660	<930	<820	<820	NA	NA	<790	<810
1,2,4-Trichlorobenzene	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
1,2,4-Trimethylbenzene	ug/kg	<74 [<81]	<79	<78	<80	<77	NA	NA	<93	<82	<82	NA	NA	<79	<81
1,3,5-Trimethylbenzene	ug/kg	<74 [<81]	<79	<78	<80	<77	NA	NA	<93	<82	<82	NA	NA	<79	<81
1,2-Dichloropropane	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
1,3-Dichlorobenzene	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
Cyclohexane	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
Methyl cyclohexane	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
Dibromochloromethane	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
Isopropyl benzene	ug/kg	<74 [<81]	<79	<78	<80	<77	<100 [<80]	<70	<93	<82	<82	NA	NA	<79	<81
Naphthalene	ug/kg	<74 [<81]	97	<78	<80	66 J	NA	NA	<93	<82	<82	NA	NA	<79	<81

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.3-OW168 16 - 17 05/30/12	SB-A5.3-OW175 1 - 2 05/31/12	SB-A5.3-OW175 5 - 6 05/31/12	SB-A5.3-OW175 16 - 17 05/31/12	SB-A5.3-OX123 1 - 2 06/01/12	SB-A5.3-OX124 10 - 11 06/05/12	SB-A5.3-OX124 14 - 15 06/05/12	SB-A5.3-OX132 1 - 2 06/01/12	SB-A5.3-OX132 7 - 8 06/01/12	SB-A5.3-OX132 16 - 17 06/01/12	SB-A5.3-OX180 7 - 8 09/17/12	SB-A5.3-OX180 17 - 18 09/17/12	SB-A5.3-PA159 1 - 2 05/31/12	SB-A5.3-PA159 5 - 6 05/31/12
	Units														
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	R	<3,000 J	<40	<100 J	<100 J	<70	<400 J
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100	<100	<70	<400 J
2,4,6-Trichlorophenol	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	R	<3,000 J	<40	<100 J	<100 J	<70	<400 J
2,4-Dichlorophenol	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	R	<3,000 J	<40	<100 J	<100 J	<70	<400 J
2,4,5-Trichlorophenol	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	R	<3,000 J	<40	<100 J	<100 J	<70	<400 J
2,4-Dimethylphenol	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	R	<3,000 J	<40	<100	<100	<70	<400 J
2,4-Dinitrophenol	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	R	<3,000 J	<40	<100 J	<100 J	<70	<400 J
2,4-Dinitrotoluene	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100 J	<100 J	<70	<400 J
2,6-Dinitrotoluene	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100 J	<100 J	<70	<400 J
2-Chloronaphthalene	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100 J	<100 J	<70	<400 J
2-Chlorophenol	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	R	<3,000 J	<40	<100	<100	<70	<400 J
2-Methylnaphthalene	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100	<100	<70	<400 J
2-Methylphenol	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	R	<3,000 J	<40	<100	<100	<70	<400 J
2-Nitroaniline	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100 J	<100 J	<70	<400 J
2-Nitrophenol	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	R	<3,000 J	<40	<100	<100	<70	<400 J
3&4-Methylphenol	ug/kg	<70 [<80]	<2,000 J	<2,000 J	<70	<1,000 J	<2,000 J [$<2,000$ J]	<2,000 J	R	<6,000 J	<70	<200	<200	<100	<800 J
3,3'-Dichlorobenzidine	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100 J	<100 J	<70	<400 J
Naphthalene	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100 J	<100 J	<70	<400 J
3-Nitroaniline	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100	<100	<70	<400 J
4-Bromophenyl phenyl ether	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100 J	<100 J	<70	<400 J
4-Chloro-3-methylphenol	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	R	<3,000 J	<40	<100	<100	<70	<400 J
4-Chloroaniline	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100 J	<100 J	<70	<400 J
4-Chlorophenyl phenyl ether	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100 J	<100 J	<70	<400 J
4-Nitroaniline	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100 J	<100 J	<70	<400 J
4-Nitrophenol	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100 J	<100 J	<70	<400 J
Anthracene	ug/kg	<40 [<40]	1,000 J	<800 J	<40	10,000 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100	<100	<70	<400 J
Acenaphthene	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	2,600 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100	<100	<70	<400 J
Acenaphthylene	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100	<100	<70	<400 J
Acetophenone	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100	<100	<70	<400 J
Atrazine	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100 J	<100 J	<70	<400 J
Benzaldehyde	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100 J	<100 J	<70	<400 J
Benzo(a)anthracene	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	23,100 J	<1,000 J [$<1,000$ J]	<800 J	700 J	<3,000 J	<40	<100	<100	260	<400 J
Benzo(a)pyrene	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	21,500 J^f	<1,000 J [$<1,000$ J]	<800 J	600	<3,000 J	<40	<100	<100	220	<400 J
Benzo(b)fluoranthene	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	47,200 J	<1,000 J [$<1,000$ J]	<800 J	1,200 J	<3,000 J	<40	<100	<100	440 J	<400 J
Benzo(g,h,i)perylene	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	5,200 J	<1,000 J [$<1,000$ J]	<800 J	400 J	<3,000 J	<40	<100	<100	160	<400 J
Benzo(k)fluoranthene	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	48,100 J	<1,000 J [$<1,000$ J]	<800 J	1,200 J	<3,000 J	<40	<100 J	<100 J	450 J	<400 J
Biphenyl (1,1-Biphenyl)	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100 J	<100 J	<70	<400 J
bis(2-Chloroethoxy)methane	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100	<100	<70	<400 J
bis(2-Chloroethyl)ether	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100	<100	<70	<400 J
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70 [<80]	<2,000 J	<2,000 J	<70	<1,000 J	<2,000 J [$<2,000$ J]	<2,000 J	<500	<6,000 J	<70	<200 J	<200 J	<100	<800 J
Butyl benzylphthalate (BBP)	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100	<100	<70	<400 J
Caprolactam	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100	<100	<70	<400 J
Carbazole	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	5,700 J^b	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100	<100	<70	<400 J
Chrysene	ug/kg	<40 [<40]	1,000 J	<800 J	<40	23,800 J	<1,000 J [$<1,000$ J]	<800 J	700	<3,000 J	<40	<100	<100	280	<400 J
Dibenz(a,h)anthracene	ug/kg	<70 [<80]	<2,000 J	<2,000 J	<70	2,000 J	<2,000 J [$<2,000$ J]	<2,000 J	<500	<6,000 J	<70	<200	<200	<100	<800 J
Dibenzofuran	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	1,700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100 J	<100 J	<70	<400 J
Diethyl phthalate	ug/kg	<70 [<80]	<2,000 J	<2,000 J	<70	<1,000 J	<2,000 J [$<2,000$ J]	<2,000 J	<500	<6,000 J	<70	<200 J	<200 J	<100	<800 J
Dimethyl phthalate	ug/kg	<350 B [<190 B]	<1,000 J	<800 J	<200 B	<2,500 BJ	<1,000 J [$<1,000$ J]	<800 J	<300 B	<3,000 J	<100 B	<100	<100	<70	<400 J
Di-n-butylphthalate (DBP)	ug/kg	<70 [<80]	<2,000 J	<2,000 J	<70	<1,000 J	<2,000 J [$<2,000$ J]	<2,000 J	<500	<6,000 J	<70	<200	<200	<100	<800 J
Di-n-octyl phthalate (DnOP)	ug/kg	<70 [<80]	<2,000 J	<2,000 J	<70	<1,000 J	<2,000 J [$<2,000$ J]	<2,000 J	<500	<6,000 J	<70	<200	<200	<100	<800 J
Fluoranthene	ug/kg	<40 [<40]	4,000 J	<800 J	<40	49,400 J^b	<1,000 J [$<1,000$ J]	<800 J	1,500 S	<3,000 J	<40	<100 J	<100 J	540	<400 J
Fluorene	ug/kg	<40 [<40]	12,000 J^b	<800 J	<40	3,300 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100	<100	<70	<400 J
Hexachlorobenzene	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100 J	<100 J	<70	<400 J
Hexachlorobutadiene	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100	<100	<70	<400 J
Hexachlorocyclopentadiene	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100 J	<100 J	<70	<400 J
Hexachloroethane	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	<700 J	<1,000 J [$<1,000$ J]	<800 J	<200	<3,000 J	<40	<100	<100	<70	<400 J
Indeno(1,2,3-cd)pyrene	ug/kg	<40 [<40]	<1,000 J	<800 J	<40	5,400 J	<1,000 J [$<1,000$ J]	<800 J	400 J	<3,000 J	<40	<100	<100	150	<400 J
Isophorone	ug/kg	<40 [<40]	<1,000 J	<800 J	<40										

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A5.3-OW168	SB-A5.3-OW175	SB-A5.3-OW175	SB-A5.3-OW175	SB-A5.3-OW123	SB-A5.3-OW124	SB-A5.3-OW124	SB-A5.3-OW132	SB-A5.3-OW132	SB-A5.3-OW132	SB-A5.3-OW180	SB-A5.3-OW180	SB-A5.3-PA159	SB-A5.3-PA159
		16 - 17	1 - 2	5 - 6	16 - 17	1 - 2	10 - 11	14 - 15	1 - 2	7 - 8	16 - 17	7 - 8	17 - 18	1 - 2	5 - 6
		05/30/12	05/31/12	05/31/12	05/31/12	06/01/12	06/05/12	06/05/12	06/01/12	06/01/12	06/01/12	09/17/12	09/17/12	05/31/12	05/31/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	<0.20 [<0.2]	<0.20	<0.21	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.20	NA	NA	<0.20	<0.21
Arsenic	mg/kg	0.99 [1.51]	1.34	1.80	1.84	2.12	3.84 [3.42]	4.64	1.51	0.82	0.66	NA	NA	0.86	2.12
Barium	mg/kg	5.70 [8.72]	36.3	54.4	19.1	170 ⁱ	25.1 [17.5]	10.4	52.4	5.38	15.6	NA	NA	66.0	60.9
Beryllium	mg/kg	<0.20 [<0.2]	0.25	0.29	<0.20	3.14	0.23 [<0.2]	<0.20	0.30	<0.20	<0.20	NA	NA	0.40	0.25
Boron	mg/kg	<4.0 [<4]	<4.1	<4.2	<4.0	17.3 ^a	<4.0 [<4.1]	<4.0	<4.0	<4.0	<4.0	NA	NA	<4.0	<4.2
Cadmium	mg/kg	<0.10 [<0.1]	0.19	0.10	0.11	0.47	0.12 [<0.1]	<0.10	0.18	<0.10	<0.10	NA	NA	<0.10	0.10
Chromium	mg/kg	1.91 [2.83]	7.33	9.02	4.00	11.7	7.11 [4.55]	3.48	7.87	1.89	3.40	NA	NA	10.3	10.1
Cobalt	mg/kg	3.36 [2.64]	26.8 ^{abi}	6.10	2.55	2.46	6.25 [4.07]	2.66	2.47	1.12	2.13	NA	NA	7.81 ^{abi}	7.88 ^{abi}
Copper	mg/kg	6.15 [4.43]	11.4	9.01	8.33	12.9	12.4 [8.18]	5.37	8.12	4.48	7.46	NA	NA	6.33	11.3
Lead	mg/kg	1.84 [2.82]	15.5	6.30	3.42	31.3 ⁱ	6.20 [4.55]	2.83	19.3	1.92	2.97	NA	NA	8.73	6.81
Manganese	mg/kg	89.8 [144]	302	343	197	1,210 ^{abgi}	416 [296]	182	235	122	158	NA	NA	148	343
Mercury	mg/kg	<0.0055 [<0.0058]	0.0194	0.0185	0.0094	0.0156	0.0087 [0.006]	<0.0057	0.0125	<0.0057	0.0063	NA	NA	0.0212	0.0182
Nickel	mg/kg	9.20 [7.02]	13.9	16.7	9.34	11.9	19.1 [12]	8.18	6.84	3.58	6.55	NA	NA	9.13	14.2
Selenium	mg/kg	0.21 J [0.25 J]	<0.20	<0.21	<0.20	<0.20	0.25 [<0.2]	<0.20	0.20	<0.20	<0.20	NA	NA	<0.20	0.22
Silver	mg/kg	<0.10 [<0.1]	2.99 ^{bi}	<0.10	<0.10	0.12	<0.10 [<0.1]	<0.10	<0.10	<0.10	<0.10	NA	NA	0.70	<0.10
Thallium	mg/kg	<0.20 [<0.2]	<0.20	<0.21	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.20	NA	NA	<0.20	<0.21
Vanadium	mg/kg	4.09 [7.04]	11.6	14.3	7.04	10.0	14.6 [9.27]	5.11	6.15	2.95	4.65	NA	NA	9.95	17.3
Zinc	mg/kg	12.6 [11]	20.6	17.9	19.8	90.1 ⁱ	19.5 [14.2]	8.54	34.4	5.86	10.5	NA	NA	16.7	19.8
Miscellaneous															
Total solids	%	91 [87]	86	87	91	90	67 [88]	86	81	89	90	88	91	89	87

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.3-PA159 9 - 10 05/31/12	SB-A5.3-PA159 10 - 11 05/31/12	SB-A5.3-PB172 1 - 2 09/17/12	SB-A5.3-PB172 18 - 19 09/17/12	SB-A5.3-PC127 1 - 2 06/01/12	SB-A5.3-PC127 7.5 - 8.5 06/01/12	SB-A5.3-PC127 15 - 16 06/01/12	SB-A5.3-PF159 14 - 15 09/17/12	SB-A5.3-PF159 19 - 20 09/17/12	SB-A5.3-PF159 24 - 25 09/17/12	SB-A5.3-PF159 29 - 30 09/17/12	SB-A5.4-LZ195 0 - 1 05/23/12	SB-A5.4-LZ195 8 - 9 05/23/12	SB-A5.4-LZ195 12 - 13 05/23/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 J[<60 J]	<60 J	<70 J	<60 J	<81	<82	<83
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
1,2-Dichlorobenzene	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
1,4-Dichlorobenzene	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
2-Hexanone	ug/kg	<860	<770 [<810]	NA	NA	<870	<810	<880	<620 [<590]	<590	<680	<620	<810	<820	<830
Acetone	ug/kg	<2,200	<1,900 [<2,000 J]	NA	NA	73,000 B ^{ab}	<2,000	<2,200	<620 [<590]	<590	<680	<620	<2,000	<2,000	<2,100
Bromodichloromethane	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
Bromoform	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 J[<60 J]	<60 J	<70 J	<60 J	<81	<82	<83
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	<60 [<60]	<60	<70	<60	NA	NA	NA
Carbon disulfide	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
Carbon tetrachloride	ug/kg	62 J	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
Chlorobenzene	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
Chloroform (Trichloromethane)	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
Chloromethane (Methyl chloride)	ug/kg	<220	<190 [<200]	NA	NA	<220	<200	<220	<60 [<60]	<60	<70	<60	<200	<200	<210
cis-1,3-Dichloropropene	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	<60 J[<60 J]	<60 J	<70 J	<60 J	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	<620 [<590]	<590	<680	<620	NA	NA	NA
Methylene chloride	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 J[<60 J]	<60 J	<70 J	<60 J	<81	<82	<83
Styrene	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
trans-1,3-Dichloropropene	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 J[<60 J]	<60 J	<70 J	<60 J	<81	<82	<83
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	<60 [<60]	<60	<70	<60	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
1,4-Dioxane	ug/kg	<860	<770 [<810]	NA	NA	<870	<810	<880	NA	NA	NA	NA	<810	<820	<830
1,1,1-Trichloroethane	ug/kg	890 J	240 [330 J]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
1,1,2,2-Tetrachloroethane	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
1,1,2-Trichloroethane	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
1,1-Dichloroethane	ug/kg	1,800 J	1,200 [1,600]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
1,1-Dichloroethene	ug/kg	400 ^{ad}	260 [310] ^a	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
1,2-Dichloroethane	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
cis-1,2-Dichloroethene	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
trans-1,2-Dichloroethene	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
Trichloroethene	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
Tetrachloroethene	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
Vinyl chloride	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
Chloroethane	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
Benzene	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
Ethylbenzene	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
Toluene	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	34 J	<82	<83
o-Xylene	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	41 J	<82	<83
m&p-Xylene	ug/kg	<170	<150 [<160]	NA	NA	<170	<160	<180	<100 [<100]	<100	<100	<100	<160	<160	<170
Xylene (total)	ug/kg	<256	<227 [<241]	NA	NA	<257	<241	<268	<160 [<160]	<160	<170	<160	41 J	<242	<253
Methyl tert butyl ether (MTBE)	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<860	<770 [<810]	NA	NA	<870	<810	<880	<620 [<590]	<590	<680	<620	<810	<820	<830
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<860 J	<770 [<810]	NA	NA	<870	<810	<880	<620 [<590]	<590	<680	<620	<810	<820	<830
1,2,4-Trichlorobenzene	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
1,2,4-Trimethylbenzene	ug/kg	<86	<77 [<81]	NA	NA	<87	50 J	<88	NA	NA	NA	NA	<81	<82	<83
1,3,5-Trimethylbenzene	ug/kg	<86	<77 [<81]	NA	NA	<87	33 J	<88	NA	NA	NA	NA	<81	<82	<83
1,2-Dichloropropane	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
1,3-Dichlorobenzene	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
Cyclohexane	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 [<60]	<60	<70	<60	34 J	<82	<83
Methyl cyclohexane	ug/kg	<86	<77 [<81]	NA	NA	<87	180	<88	<60 [<60]	<60	<70	<60	83	<82	<83
Dibromochloromethane	ug/kg	<86	<77 [<81]	NA	NA	<87	<81	<88	<60 J[<60 J]	<60 J	<70 J	<60 J	<81	<82	<83
Isopropyl benzene	ug/kg	<86	<77 [<81]	NA	NA	<87	70 J	<88	<60 [<60]	<60	<70	<60	<81	<82	<83
Naphthalene	ug/kg	<86	<77 [<81]	NA	NA	<87	40 J	<88	NA	NA	NA	NA	84	<82	<83

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.3-PA159 9 - 10 05/31/12	SB-A5.3-PA159 10 - 11 05/31/12	SB-A5.3-PB172 1 - 2 09/17/12	SB-A5.3-PB172 18 - 19 09/17/12	SB-A5.3-PC127 1 - 2 06/01/12	SB-A5.3-PC127 7.5 - 8.5 06/01/12	SB-A5.3-PC127 15 - 16 06/01/12	SB-A5.3-PF159 14 - 15 09/17/12	SB-A5.3-PF159 19 - 20 09/17/12	SB-A5.3-PF159 24 - 25 09/17/12	SB-A5.3-PF159 29 - 30 09/17/12	SB-A5.4-LZ195 0 - 1 05/23/12	SB-A5.4-LZ195 8 - 9 05/23/12	SB-A5.4-LZ195 12 - 13 05/23/12
	Units														
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	<100 J	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70 J	<40 J	<40 J
2,4,6-Trichlorophenol	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
2,4-Dichlorophenol	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70 J	<40 J	<40 J
2,4,5-Trichlorophenol	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
2,4-Dimethylphenol	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
2,4-Dinitrophenol	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
2,4-Dinitrotoluene	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
2,6-Dinitrotoluene	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
2-Chloronaphthalene	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
2-Chlorophenol	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
2-Methylnaphthalene	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	<80	40	<40	NA	NA	NA	NA	90	<40	<40
2-Methylphenol	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
2-Nitroaniline	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
2-Nitrophenol	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70 J	<40	<40 J
3&4-Methylphenol	ug/kg	<2,000 J	<70 [<70]	<200 J[<200]	<200 J	<200	<80	<70	NA	NA	NA	NA	<100	<80	<70
3,3'-Dichlorobenzidine	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
Naphthalene	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	<80	70	<40	NA	NA	NA	NA	90	<40	<40
3-Nitroaniline	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
4-Bromophenyl phenyl ether	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
4-Chloro-3-methylphenol	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
4-Chloroaniline	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
4-Nitroaniline	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
4-Nitrophenol	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
Anthracene	ug/kg	<800 J	<40 [<40]	<100 J[<100]	<100 J	<80	<40	<40	NA	NA	NA	NA	140	<40	<40
Acenaphthene	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
Acenaphthylene	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	<80	<40	<40	NA	NA	NA	NA	290	<40	<40
Acetophenone	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
Atrazine	ug/kg	<800 J	<40 [<40]	<100 [<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
Benzaldehyde	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
Benzo(a)anthracene	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	230	<40	<40	NA	NA	NA	NA	1,840	<40	<40
Benzo(a)pyrene	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	210	<40	<40	NA	NA	NA	NA	1,760	<40	<40
Benzo(b)fluoranthene	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	450 J	<40	<40	NA	NA	NA	NA	3,390 J	<40	<40
Benzo(g,h,i)perylene	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	140	<40	<40	NA	NA	NA	NA	530	<40	<40
Benzo(k)fluoranthene	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	460 p	<40	<40	NA	NA	NA	NA	3,470 J	<40	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
bis(2-Chloroethoxy)methane	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70 J	<40 J	<40 J
bis(2-Chloroethyl)ether	ug/kg	<800 J	<40 [<40]	<100 J[<100]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70 J	<40 J	<40 J
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<2,000 J	<70 [<70]	<100 J[<100 J]	<200 J	<200	<80	<70	NA	NA	NA	NA	<100	<80	<70
Butyl benzylphthalate (BBP)	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
Caprolactam	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
Carbazole	ug/kg	<800 J	<40 [<40]	<100 J[<100]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
Chrysene	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	240	<40	<40	NA	NA	NA	NA	1,690	<40	<40
Dibenz(a,h)anthracene	ug/kg	<2,000 J	<70 [<70]	<200 J[<200]	<200 J	<200	<80	<70	NA	NA	NA	NA	300	<80	<70
Dibenzofuran	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
Diethyl phthalate	ug/kg	<2,000 J	<70 [<70]	<100 J[<100 J]	<200 J	<200	<80	<70	NA	NA	NA	NA	<100	<80	<70
Dimethyl phthalate	ug/kg	<800 J	<60 B [<70 B]	<100 [<100]	<100 J	<80 B	<110 B	<100 B	NA	NA	NA	NA	<110 B	<40	<240 B
Di-n-butylphthalate (DBP)	ug/kg	<2,000 J	<70 [<70]	<200 [<200]	<200 J	<200	<80	<70	NA	NA	NA	NA	<100	<80	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<2,000 J	<70 [<70]	<200 [<200]	<200 J	<200	<80	<70	NA	NA	NA	NA	<100	<80	<70
Fluoranthene	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	380	<40	<40	NA	NA	NA	NA	1,750	<40	<40
Fluorene	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
Hexachlorobenzene	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
Hexachlorobutadiene	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
Hexachlorocyclopentadiene	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
Hexachloroethane	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	120	<40	<40	NA	NA	NA	NA	670	<40	<40
Isophorone	ug/kg	<800 J	<40 [<40]	<100 J[<100]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70 J	<40 J	<40 J
Nitrobenzene	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70 J	<40 J	<40 J
N-Nitrosodi-n-propylamine	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
N-Nitrosodiphenylamine	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
Pentachlorophenol	ug/kg	<800 J	<40 [<40]	<100 J[<100 J]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
Phenanthrene	ug/kg	<800 J	<40 [<40]	<100 J[<100]	<100 J	140	<40	<40	NA	NA	NA	NA	350	<40	<40
Phenol	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	<80	<40	<40	NA	NA	NA	NA	<70	<40	<40
Pyrene	ug/kg	<800 J	<40 [<40]	<100 [<100]	<100 J	410	<40	<40	NA	NA	NA	NA	1,750	<40	<40

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A5.3-PA159	SB-A5.3-PA159	SB-A5.3-PB172	SB-A5.3-PB172	SB-A5.3-PC127	SB-A5.3-PC127	SB-A5.3-PC127	SB-A5.3-PF159	SB-A5.3-PF159	SB-A5.3-PF159	SB-A5.3-PF159	SB-A5.4-LZ195	SB-A5.4-LZ195	SB-A5.4-LZ195
		9 - 10	10 - 11	1 - 2	18 - 19	1 - 2	7.5 - 8.5	15 - 16	14 - 15	19 - 20	24 - 25	29 - 30	0 - 1	8 - 9	12 - 13
		05/31/12	05/31/12	09/17/12	09/17/12	06/01/12	06/01/12	06/01/12	09/17/12	09/17/12	09/17/12	09/17/12	05/23/12	05/23/12	05/23/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<28	<3	<3
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<28	<3	<3
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<28	<3	<3
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<28	<3	<3
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<28	<3	<3
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<28	<3	<3
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<28	<3	<3
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
Inorganics															
Antimony	mg/kg	<0.20	<0.20 [<0.2]	NA	NA	<0.20	<0.21	<0.20	NA	NA	NA	NA	<0.20	<0.20	<0.20
Arsenic	mg/kg	0.87	0.57 [0.57]	NA	NA	1.71	0.64	4.57	NA	NA	NA	NA	2.22	2.41	0.54
Barium	mg/kg	28.8	35.5 [35.3]	NA	NA	24.7	44.8	9.16	NA	NA	NA	NA	18.8	18.8	30.1
Beryllium	mg/kg	<0.20	<0.20 [<0.2]	NA	NA	<0.20	0.34	<0.20	NA	NA	NA	NA	<0.21	<0.20	<0.20
Boron	mg/kg	<4.0	<4.0 [<4.1]	NA	NA	<4.0	<4.2	<4.0	NA	NA	NA	NA	<4.2	<4.1	<4.1
Cadmium	mg/kg	<0.10	<0.10 [<0.1]	NA	NA	0.17	0.12	<0.10	NA	NA	NA	NA	<0.10	<0.10	<0.10
Chromium	mg/kg	5.68	6.19 [5.75]	NA	NA	3.94	5.83	2.19	NA	NA	NA	NA	1.88	2.66	1.80
Cobalt	mg/kg	5.15	2.97 [2.69]	NA	NA	10.8^{abi}	2.94	2.03	NA	NA	NA	NA	2.76	2.24	1.40
Copper	mg/kg	9.10	8.51 [7.31]	NA	NA	10.6	10.5	7.59	NA	NA	NA	NA	5.51	7.75	6.42
Lead	mg/kg	4.19	1.96 [1.84]	NA	NA	27.9ⁱ	6.05	3.02	NA	NA	NA	NA	9.21	3.79	1.35
Manganese	mg/kg	255	147 [137]	NA	NA	177	65.0	149	NA	NA	NA	NA	224	215	54.6
Mercury	mg/kg	0.0075	<0.0056 [<0.0057]	NA	NA	0.01457	0.03910	<0.0055	NA	NA	NA	NA	0.0217	0.0079	<0.0057
Nickel	mg/kg	10.4	8.35 [6.71]	NA	NA	8.67	7.09	6.55	NA	NA	NA	NA	6.36	7.51	2.82
Selenium	mg/kg	<0.20	<0.20 [<0.2]	NA	NA	<0.20	<0.21	0.22	NA	NA	NA	NA	<0.21	0.29	0.22
Silver	mg/kg	<0.10	<0.10 [<0.1]	NA	NA	1.22^{bi}	<0.10	<0.10	NA	NA	NA	NA	<0.10	<0.10	<0.10
Thallium	mg/kg	<0.20	<0.20 [<0.2]	NA	NA	<0.20	<0.21	<0.20	NA	NA	NA	NA	<0.21	<0.20	<0.20
Vanadium	mg/kg	10.4	7.40 [6.71]	NA	NA	4.87	7.96	3.87	NA	NA	NA	NA	3.15	4.42	2.60
Zinc	mg/kg	17.5	7.49 [7.01]	NA	NA	47.4ⁱ	21.2	11.9	NA	NA	NA	NA	9.53	12.7	5.11
Miscellaneous															
Total solids	%	81	89 [89]	87 [85]	86	88	86	90	91 [90]	91	85	89	89	88	89

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.4-MB193 1 - 2 05/21/12	SB-A5.4-MB193 9 - 10 05/21/12	SB-A5.4-MB193 12 - 13 05/21/12	SB-A5.4-MB193 16 - 17 05/21/12	SB-A5.4-MB193 20 - 21 05/21/12	SB-A5.4-MB197 0 - 1 05/21/12	SB-A5.4-MB197 8 - 9 05/21/12	SB-A5.4-MB197 16 - 17 05/21/12	SB-A5.4-MD195 1 - 2 05/22/12	SB-A5.4-MD195 2 - 3 05/22/12	SB-A5.4-MD195 13 - 14 05/22/12	SB-A5.5-NL193 1 - 2 05/29/12	SB-A5.5-NL193 8 - 9 05/29/12	SB-A5.5-NL193 14.5 - 15 05/29/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
1,2-Dichlorobenzene	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
1,4-Dichlorobenzene	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
2-Hexanone	ug/kg	<840	<810	<800	<860	<810	<810	<890	<810	<780	<790	<820	<780	<790	<780
Acetone	ug/kg	<7,400 BJ	<3,100 BJ	<5,200 BJ	<2,700 BJ	<5,400 BJ	<2,000	<2,200	<2,000	<2,000	<2,000	<2,100	<2,000	<2,000	<1,900
Bromodichloromethane	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
Bromoform	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
Carbon tetrachloride	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
Chlorobenzene	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
Chloroform (Trichloromethane)	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
Chloromethane (Methyl chloride)	ug/kg	<210	<200	<200	<220	<200	<200	<220	<200	<200	<200	<210	<200	<200	<190
cis-1,3-Dichloropropene	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
Styrene	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
trans-1,3-Dichloropropene	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
1,4-Dioxane	ug/kg	<840	<810	<800	<860	<810	<810	<890	<810	<780	<790	<820	<780	<790	<780
1,1,1-Trichloroethane	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
1,1,2,2-Tetrachloroethane	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
1,1,2-Trichloroethane	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
1,1-Dichloroethane	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
1,1-Dichloroethene	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
1,2-Dichloroethane	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
cis-1,2-Dichloroethene	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
trans-1,2-Dichloroethene	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
Trichloroethene	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
Tetrachloroethene	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
Vinyl chloride	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
Chloroethane	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
Benzene	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
Ethylbenzene	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
Toluene	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	13 J	65 J	<82	<78	<79	<78
o-Xylene	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	20 J	39 J	<82	<78	<79	<78
m&p-Xylene	ug/kg	<170	<160	<160	<170	<160	<160	<180	<160	<160	<160	<160	<160	<160	<160
Xylene (total)	ug/kg	<254	<241	<240	<256	<241	<241	<269	<241	20 J	39 J	<242	<238	<239	<238
Methyl tert butyl ether (MTBE)	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<840	<810	<800	<860	<810	<810	<890	<810	<780	<790	<820	<780	<790	<780
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<840	<810	<800	<860	<810	<810	<890	<810	<780	<790	<820	<780	<790	<780
1,2,4-Trichlorobenzene	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
1,2,4-Trimethylbenzene	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
1,3,5-Trimethylbenzene	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
1,2-Dichloropropane	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
1,3-Dichlorobenzene	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
Cyclohexane	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	34 J	<82	<78	<79	<78
Methyl cyclohexane	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	42 J	65 J	<82	<78	<79	<78
Dibromochloromethane	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
Isopropyl benzene	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	<79	<82	<78	<79	<78
Naphthalene	ug/kg	<84	<81	<80	<86	<81	<81	<89	<81	<78	69 J	<82	<78	<79	<78

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.4-MB193 1 - 2 05/21/12	SB-A5.4-MB193 9 - 10 05/21/12	SB-A5.4-MB193 12 - 13 05/21/12	SB-A5.4-MB193 16 - 17 05/21/12	SB-A5.4-MB193 20 - 21 05/21/12	SB-A5.4-MB197 0 - 1 05/21/12	SB-A5.4-MB197 8 - 9 05/21/12	SB-A5.4-MB197 16 - 17 05/21/12	SB-A5.4-MD195 1 - 2 05/22/12	SB-A5.4-MD195 2 - 3 05/22/12	SB-A5.4-MD195 13 - 14 05/22/12	SB-A5.5-NL193 1 - 2 05/29/12	SB-A5.5-NL193 8 - 9 05/29/12	SB-A5.5-NL193 14.5 - 15 05/29/12
	Units														
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	R	R	<40	<30	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70 J	<200 J	<40 J	<30	<40	<40
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	R	R	<40	<30	<40	<40
2,4-Dichlorophenol	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	R	R	<40	<30	<40	<40
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	R	R	<40	<30	<40	<40
2,4-Dimethylphenol	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	R	R	<40	<30	<40	<40
2,4-Dinitrophenol	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J	<100 J	<200 J	<40 J	R	R	<40	<30	<40	<40
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
2-Chloronaphthalene	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
2-Chlorophenol	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	R	<200	<40	<30	<40	<40
2-Methylnaphthalene	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	90	200	<40	<30	<40	<40
2-Methylphenol	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	R	R	<40	<30	<40	<40
2-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
2-Nitrophenol	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	R	R	<40	<30	<40	<40
3&4-Methylphenol	ug/kg	<80	<70	<70	<80	<80	<200	<300	<80	R	R	<80	<70	<80	<70
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
Naphthalene	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
3-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	R	<200	<40	<30	<40	<40
4-Chloroaniline	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
4-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
4-Nitrophenol	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	R	R	<40	<30	<40	<40
Anthracene	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
Acenaphthene	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
Acenaphthylene	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
Acetophenone	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
Atrazine	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
Benzaldehyde	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
Benzo(a)anthracene	ug/kg	170	<40	<40	<40	<40	600	900	<40	100	<200	<40	50	<40	<40
Benzo(a)pyrene	ug/kg	160	<40	<40	<40	<40	500	1,100	<40	<70	<200	<40	50	<40	<40
Benzo(b)fluoranthene	ug/kg	340 J	<40	<40	<40	<40	1,100 J	2,100 J	<40	160	200	<40	90 J	<40	<40
Benzo(g,h,i)perylene	ug/kg	90	<40	<40	<40	<40	200	500	<40	<70	<200	<40	40	<40	<40
Benzo(k)fluoranthene	ug/kg	360 J	<40	<40	<40	<40	1,200 J	2,200 J	<40	160	200	<40	100 J	<40	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70 J	<200	<40 J	<30	<40	<40
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70 J	<200	<40 J	<30	<40	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	90	<70	<70	<80	<80	<200	<300	<80	1,200	11,300 X	<80	<70	<80	<70
Butyl benzylphthalate (BBP)	ug/kg	160	<40	<40	<40	<40	600	<200	<40	<70	<200	<40	<30	<40	<40
Caprolactam	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
Carbazole	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
Chrysene	ug/kg	200	<40	<40	<40	<40	600	1,100	<40	100	<200	<40	50	<40	<40
Dibenz(a,h)anthracene	ug/kg	<80	<70	<70	<80	<80	<200	<300	<80	<100	<400	<80	<70	<80	<70
Dibenzofuran	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
Diethyl phthalate	ug/kg	<80	<70	<70	<80	<80	<200	<300	<80	<100	<400	<80	<70	<80	<70
Dimethyl phthalate	ug/kg	320 B	250 B	240 B	310 B	330 B	300 B	500 B	<220 B	<470 B	<500 B	290	<130 B	<70 B	<90 B
Di-n-butylphthalate (DBP)	ug/kg	<80	<70	<70	<80	<80	<200	<300	<80	<100	<400	<80 B	<70	<80	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<80	<70	<70	<80	<80	<200	<300	<80	<100	<400	<80	<70	<80	<70
Fluoranthene	ug/kg	380	<40	<40	<40	<40	1,100	1,600	<40	140 S	200 S	<40	100	<40	<40
Fluorene	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
Hexachlorobenzene	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
Hexachlorobutadiene	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
Hexachlorocyclopentadiene	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J	<100 J	<200 J	<40 J	<70	<200	<40	<30	<40	<40
Hexachloroethane	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
Indeno(1,2,3-cd)pyrene	ug/kg	80	<40	<40	<40	<40	200	500	<40	<70	<200	<40	<30	<40	<40
Isophorone	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
Nitrobenzene	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70 J	<200 J	<40 J	<30	<40	<40
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70	<200	<40	<30	<40	<40
N-Nitrosodiphenylamine	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	<70 S	<200 S	<40	<30	<40	<40
Pentachlorophenol	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	R	R	<40	<30	<40	<40
Phenanthrene	ug/kg	170	<40	<40	<40	<40	400	400	<40	110 S	200 S	<40	60	<40	<40
Phenol	ug/kg	<40	<40	<40	<40	<40	<100	<200	<40	R	R	<40	<30	<40	<40
Pyrene	ug/kg	340	<40	<40	<40	<40	900	1,500	<40	120	200	<40	90	<40	<40

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A5.4-MB193	SB-A5.4-MB193	SB-A5.4-MB193	SB-A5.4-MB193	SB-A5.4-MB193	SB-A5.4-MB197	SB-A5.4-MB197	SB-A5.4-MB197	SB-A5.4-MB197	SB-A5.4-MD195	SB-A5.4-MD195	SB-A5.4-MD195	SB-A5.5-NL193	SB-A5.5-NL193	SB-A5.5-NL193
		1 - 2	9 - 10	12 - 13	16 - 17	20 - 21	0 - 1	8 - 9	16 - 17	1 - 2	2 - 3	13 - 14	1 - 2	8 - 9	14.5 - 15	
		05/21/12	05/21/12	05/21/12	05/21/12	05/21/12	05/21/12	05/21/12	05/21/12	05/21/12	05/22/12	05/22/12	05/22/12	05/29/12	05/29/12	05/29/12
PCBs																
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	<3	<3
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	ND	ND
Inorganics																
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.20	<0.21	<0.20
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.34	1.01	0.88
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.86	24.9	21.0
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.20	<0.21	<0.20
Boron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.0	<4.3	<4.0
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.17	0.10	<0.10
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.49	3.22	2.49
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.10	2.67	1.92
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.61	9.93	6.86
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.11	4.49	3.35
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	134	228	172
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0072	0.0089	0.0065
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.91	7.69	6.00
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.20	0.41	<0.20
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.76	<0.10	<0.10
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.20	<0.21	<0.20
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.37	6.87	4.94
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.11	12.8	8.17
Miscellaneous																
Total solids	%	85	89	92	85	87	92	79	87	94	90	88	97	87	89	

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.5-NL193 16 - 17 05/29/12	SB-A5.5-NM187 1 - 2 05/24/12	SB-A5.5-NM187 8 - 9 05/24/12	SB-A5.5-NM187 16 - 17 05/24/12	SB-A5.5-NO196 1 - 2 05/25/12	SB-A5.5-NO196 8 - 9 05/25/12	SB-A5.5-NO196A 1 - 2 05/29/12	SB-A5.5-NO196A 7 - 7.5 05/29/12	SB-A5.5-NO196B 8 - 9 05/29/12	SB-A5.5-NO196B 16 - 17 05/29/12	SB-A5.5-NQ185 1 - 2 05/24/12	SB-A5.5-NQ185 8 - 9 05/24/12	SB-A5.5-NQ185 15 - 16 05/24/12	SB-A5.5-NT196 0 - 1 05/25/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
1,2-Dichlorobenzene	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
1,4-Dichlorobenzene	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
2-Hexanone	ug/kg	<800	<770	<720	<680	<780	<850 [<730]	<690	<760	<830	<790	<680	<800	<820	<730
Acetone	ug/kg	<2,000	<1,900	<1,800	<1,700	<2,000	<2,100 [<1,800]	<1,700	<1,900	<2,100	<2,000	<1,700	<2,000	<2,000	<1,800
Bromodichloromethane	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
Bromoform	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
Carbon tetrachloride	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
Chlorobenzene	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
Chloroform (Trichloromethane)	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
Chloromethane (Methyl chloride)	ug/kg	<200	<190	<180	<170	<200	<210 [<180]	<170	<190	<210	<200	<170	<200	<200	<180
cis-1,3-Dichloropropene	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
Styrene	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
trans-1,3-Dichloropropene	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
1,4-Dioxane	ug/kg	<800	<770	<720	<680	<780	<850 [<730]	<690	<760	<830	<790	<680	<800	<820	<730
1,1,1-Trichloroethane	ug/kg	<80	40 J	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
1,1,2,2-Tetrachloroethane	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
1,1,2-Trichloroethane	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	220 ^a	<79	<68	<80	<82	<73
1,1-Dichloroethane	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
1,1-Dichloroethene	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
1,2-Dichloroethane	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
cis-1,2-Dichloroethene	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
trans-1,2-Dichloroethene	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
Trichloroethene	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
Tetrachloroethene	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
Vinyl chloride	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
Chloroethane	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
Benzene	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
Ethylbenzene	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
Toluene	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
o-Xylene	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
m&p-Xylene	ug/kg	<160	<150	<140	<140	<160	<170 [<150]	<140	<150	<170	<160	<140	<160	<160	<150
Xylene (total)	ug/kg	<240	<227	<212	<208	<238	<255 [<223]	<209	<226	<253	<239	<208	<240	<242	<223
Methyl tert butyl ether (MTBE)	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<800	<770	<720	<680	<780	<850 [<730]	<690	<760	<830	<790	<680	<800	<820	<730
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<800	<770	<720	<680	<780	<850 [<730]	<690	<760	<830	<790	<680	<800	<820	<730
1,2,4-Trichlorobenzene	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
1,2,4-Trimethylbenzene	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
1,3,5-Trimethylbenzene	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
1,2-Dichloropropane	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
1,3-Dichlorobenzene	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
Cyclohexane	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
Methyl cyclohexane	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	38 J	<79	<68	<80	<82	<73
Dibromochloromethane	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
Isopropyl benzene	ug/kg	<80	<77	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73
Naphthalene	ug/kg	<80	610	<72	<68	<78	<85 [<73]	<69	<76	<83	<79	<68	<80	<82	<73

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.5-NL193 16 - 17 05/29/12	SB-A5.5-NM187 1 - 2 05/24/12	SB-A5.5-NM187 8 - 9 05/24/12	SB-A5.5-NM187 16 - 17 05/24/12	SB-A5.5-NO196 1 - 2 05/25/12	SB-A5.5-NO196 8 - 9 05/25/12	SB-A5.5-NO196A 1 - 2 05/29/12	SB-A5.5-NO196A 7 - 7.5 05/29/12	SB-A5.5-NO196B 8 - 9 05/29/12	SB-A5.5-NO196B 16 - 17 05/29/12	SB-A5.5-NQ185 1 - 2 05/24/12	SB-A5.5-NQ185 8 - 9 05/24/12	SB-A5.5-NQ185 15 - 16 05/24/12	SB-A5.5-NT196 0 - 1 05/25/12
	Units														
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	R	R	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	R	R	<30
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
2,4,6-Trichlorophenol	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
2,4-Dichlorophenol	ug/kg	<40	<100 J	<40 J	<40 J	<70	<40 [<40]	NA	NA	NA	<40	<70	<40 J	<40 J	<30
2,4,5-Trichlorophenol	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
2,4-Dimethylphenol	ug/kg	<40	<100 J	<40 J	<40 J	<70	<40 [<40]	NA	NA	NA	<40	<70	<40 J	<40 J	<30
2,4-Dinitrophenol	ug/kg	<40	R	R	R	<70	<40 [<40]	NA	NA	NA	<40	<70	R	R	<30
2,4-Dinitrotoluene	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
2,6-Dinitrotoluene	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
2-Chloronaphthalene	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
2-Chlorophenol	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
2-Methylnaphthalene	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
2-Methylphenol	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
2-Nitroaniline	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
2-Nitrophenol	ug/kg	<40	<100 J	<40 J	<40 J	<70	<40 [<40]	NA	NA	NA	<40	<70	<40 J	<40 J	<30
3&4-Methylphenol	ug/kg	<70	<300	<70	<70	<100	<80 [<80]	NA	NA	NA	<70	<100	<80	<70	<70
3,3'-Dichlorobenzidine	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
Naphthalene	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
3-Nitroaniline	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
4-Bromophenyl phenyl ether	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
4-Chloro-3-methylphenol	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
4-Chloroaniline	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
4-Chlorophenyl phenyl ether	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
4-Nitroaniline	ug/kg	<40	<100 J	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40 J	<30
4-Nitrophenol	ug/kg	<40	<100	<40 J	<40 J	<70	<40 [<40]	NA	NA	NA	<40	<70	<40 J	<40	<30
Anthracene	ug/kg	<40	900	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	40
Acenaphthene	ug/kg	<40	400	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
Acenaphthylene	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
Acetophenone	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
Atrazine	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
Benzaldehyde	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
Benzo(a)anthracene	ug/kg	<40	2,000	<40	<40	170	50 [<40]	NA	NA	NA	<40	<70	<40	<40	180
Benzo(a)pyrene	ug/kg	<40	1,800	<40	<40	160	40 [<40]	NA	NA	NA	<40	<70 J	<40	<40	180
Benzo(b)fluoranthene	ug/kg	<40	3,400 J	<40	<40	340 J	80 [<40]	NA	NA	NA	<40	110 J	50 J	<40	420 J
Benzo(g,h,i)perylene	ug/kg	<40	900	<40	<40	70	<40 [<40]	NA	NA	NA	<40	<70 J	<40	<40	60
Benzo(k)fluoranthene	ug/kg	<40	3,500 J	<40	<40	340 J	80 [<40]	NA	NA	NA	<40	120 J	50 J	<40	430 J
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
bis(2-Chloroethoxy)methane	ug/kg	<40	<100 J	<40 J	<40 J	<70	<40 [<40]	NA	NA	NA	<40	<70	<40 J	<40 J	<30
bis(2-Chloroethyl)ether	ug/kg	<40	<100 J	<40 J	<40 J	<70	<40 [<40]	NA	NA	NA	<40	<70	<40 J	<40 J	<30
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70	<300 J	<70 J	<70 J	<100	<80 [<80]	NA	NA	NA	<70	<100	<80 J	<70 J	<70
Butyl benzylphthalate (BBP)	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	60
Caprolactam	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
Carbazole	ug/kg	<40	600	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
Chrysene	ug/kg	<40	2,100	<40	<40	230	50 [<40]	NA	NA	NA	<40	<70	<40	<40	240
Dibenz(a,h)anthracene	ug/kg	<70	<300	<70	<70	<100	<80 [<80]	NA	NA	NA	<70	<100 J	<80	<70	<70
Dibenzofuran	ug/kg	<40	200	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
Diethyl phthalate	ug/kg	<70	<300	<70	<70	<100	<80 [<80]	NA	NA	NA	<70	<100	<80	<70	<70
Dimethyl phthalate	ug/kg	<60 B	<100	<100 B	<40	100 B	<50 B [<40]	NA	NA	NA	<90 B	<80 B	<40	<40 B	50 B
Di-n-butylphthalate (DBP)	ug/kg	<70	<300	<70	<70	<100	<80 [<80]	NA	NA	NA	<70	<100	<80	<70	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<70	<300	<70	<70	<100	<80 [<80]	NA	NA	NA	<70	<100 J	<80	<70	<70
Fluoranthene	ug/kg	<40	5,200	<40	<40	400	130 [40]	NA	NA	NA	<40	110	60	<40	410
Fluorene	ug/kg	<40	500	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
Hexachlorobenzene	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
Hexachlorobutadiene	ug/kg	<40	<100 J	<40 J	<40 J	<70	<40 [<40]	NA	NA	NA	<40	<70	<40 J	<40 J	<30
Hexachlorocyclopentadiene	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
Hexachloroethane	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
Indeno(1,2,3-cd)pyrene	ug/kg	<40	900	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70 J	<40	<40	50
Isophorone	ug/kg	<40	<100 J	<40 J	<40 J	<70	<40 [<40]	NA	NA	NA	<40	<70	<40 J	<40 J	<30
Nitrobenzene	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
N-Nitrosodi-n-propylamine	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
N-Nitrosodiphenylamine	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
Pentachlorophenol	ug/kg	<40	<100 J	<40 J	<40 J	<70	<40 [<40]	NA	NA	NA	<40	<70	<40 J	<40 J	<30
Phenanthrene	ug/kg	<40	3,800 ^b	<40	<40	220	100 [<40]	NA	NA	NA	<40	70	<40	<40	190
Phenol	ug/kg	<40	<100	<40	<40	<70	<40 [<40]	NA	NA	NA	<40	<70	<40	<40	<30
Pyrene	ug/kg	<40	4,300	<40	<40	300	130 [60]	NA	NA	NA	<40	110	50	<40	320

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A5.5-NL193	SB-A5.5-NM187	SB-A5.5-NM187	SB-A5.5-NM187	SB-A5.5-NO196	SB-A5.5-NO196	SB-A5.5-NO196A	SB-A5.5-NO196A	SB-A5.5-NO196B	SB-A5.5-NO196B	SB-A5.5-NO196B	SB-A5.5-NQ185	SB-A5.5-NQ185	SB-A5.5-NQ185	SB-A5.5-NT196
		16 - 17	1 - 2	8 - 9	16 - 17	1 - 2	8 - 9	1 - 2	7 - 7.5	8 - 9	16 - 17	1 - 2	8 - 9	15 - 16	0 - 1	
		05/29/12	05/24/12	05/24/12	05/24/12	05/25/12	05/25/12	05/29/12	05/29/12	05/29/12	05/29/12	05/24/12	05/24/12	05/24/12	05/25/12	
PCBs																
Aroclor-1016 (PCB-1016)	ug/kg	<3	<3	<3	<3	<10	<3 <3	NA	NA	NA	<3	<3	<3	<3	<3	<20
Aroclor-1221 (PCB-1221)	ug/kg	<3	<3	<3	<3	<10	<3 <3	NA	NA	NA	<3	<3	<3	<3	<3	<20
Aroclor-1232 (PCB-1232)	ug/kg	<3	<3	<3	<3	<10	<3 <3	NA	NA	NA	<3	<3	<3	<3	<3	<20
Aroclor-1242 (PCB-1242)	ug/kg	<3	<3	<3	<3	<10	<3 <3	NA	NA	NA	<3	<3	<3	<3	<3	<20
Aroclor-1248 (PCB-1248)	ug/kg	<3	<3	<3	<3	<10	<3 <3	NA	NA	NA	<3	<3	<3	<3	<3	<20
Aroclor-1254 (PCB-1254)	ug/kg	<3	6	<3	<3	<10	<3 <3	NA	NA	NA	<3	<3	<3	<3	<3	<20
Aroclor-1260 (PCB-1260)	ug/kg	<3	<3	<3	<3	<10	<3 <3	NA	NA	NA	<3	<3	<3	<3	<3	<20
Total PCBs	ug/kg	ND	6	ND	ND	ND	ND [ND]	NA	NA	NA	ND	ND	ND	ND	ND	ND
Inorganics																
Antimony	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 <0.2	NA	NA	NA	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20
Arsenic	mg/kg	0.81	1.34	0.37	1.91	7.47 ^{abi}	4.01 [1.99]	NA	NA	NA	0.66	0.55	0.27	0.90	9.05 ^{abi}	
Barium	mg/kg	31.8	59.0	3.67	23.3	9.01	6.19 [14.9]	NA	NA	NA	30.8	8.48	31.7	32.7	18.5	
Beryllium	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 <0.2	NA	NA	NA	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20
Boron	mg/kg	<4.0	<4.0	<4.0	<4.0	<4.0	<4.1 <4	NA	NA	NA	<4.0	<4.0	<4.2	<4.1	<4.0	<4.0
Cadmium	mg/kg	0.11	0.79	<0.10	<0.10	0.29	<0.10 <0.1	NA	NA	NA	<0.10	<0.10	<0.10	<0.10	0.88	
Chromium	mg/kg	3.04	2.97	1.09	2.62	1.94	1.04 [1.6]	NA	NA	NA	3.03	1.11	2.08	2.02	2.43	
Cobalt	mg/kg	2.35	8.44 ^{abi}	1.03	2.71	0.96	0.86 [1.17]	NA	NA	NA	2.61	1.84	0.88	1.77	2.30	
Copper	mg/kg	7.08	7.72	4.24	7.47	7.48	5.73 [6.15]	NA	NA	NA	8.29	2.06	1.97	5.76	12.5	
Lead	mg/kg	3.97	144 ⁱ	1.27	3.94	23.2 ⁱ	2.72 [5.37]	NA	NA	NA	4.19	2.65	4.68	5.60	21.9 ⁱ	
Manganese	mg/kg	209	152	66.3	196	121	116 [115]	NA	NA	NA	220	103	33.0	177	239	
Mercury	mg/kg	0.0139	0.0221	<0.0055	0.0095	0.0094	0.0289 [0.0354]	NA	NA	NA	0.0077	0.0088	0.0236	0.0082	<0.0053	
Nickel	mg/kg	6.78	4.37	3.27	7.17	5.15	4.19 [4.14]	NA	NA	NA	6.88	1.92	1.43	5.34	5.82	
Selenium	mg/kg	<0.20	<0.20	<0.20	0.21	<0.20	<0.20 [0.28]	NA	NA	NA	<0.20	<0.20	<0.21	<0.20	0.21	
Silver	mg/kg	<0.10	0.73	<0.10	<0.10	<0.10	<0.10 <0.1	NA	NA	NA	<0.10	0.11	<0.10	<0.10	<0.10	<0.10
Thallium	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 <0.2	NA	NA	NA	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20
Vanadium	mg/kg	5.25	2.90	2.07	5.08	2.13	1.96 [2.7]	NA	NA	NA	6.03	1.94	6.04	4.04	3.36	
Zinc	mg/kg	10.1	77.6 ⁱ	3.42	11.9	73.8 ⁱ	6.83 [9.63]	NA	NA	NA	10.2	4.10	7.72	8.92	46.3	
Miscellaneous																
Total solids	%	90	89	89	91	97	88 [87]	NA	NA	NA	89	95	84	91	96	

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.5-NT196 5 - 6 05/25/12	SB-A5.5-NT196 14 - 15 05/25/12	SB-A5.5-NU185 2 - 3 05/24/12	SB-A5.5-NU185 8 - 9 05/24/12	SB-A5.5-NU185 16 - 17 05/24/12	SB-A5.5-NW194 0 - 1 05/29/12	SB-A5.5-NW194 7.5 - 8.5 05/29/12	SB-A5.5-NW194 11.5 - 12.5 05/29/12	SB-A5.5-NW195 1 - 2 05/25/12	SB-A5.5-NW195 8 - 9 05/25/12	SB-A5.5-NW195 12 - 13 05/25/12	SB-A5.5-NX188 1 - 2 05/24/12	SB-A5.5-NX188 7 - 8 05/24/12	SB-A5.5-NX188 16 - 17 05/24/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
1,2-Dichlorobenzene	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	100 [97]	<80	<82	64 J	<83
1,4-Dichlorobenzene	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	16 J	<79	140 [130]	<80	<82	42 J	<83
2-Hexanone	ug/kg	<850	<820	<770	<830 [<830]	<750	<790	<810	<800	<790	<780 [<760]	<800	<820	<790	<830
Acetone	ug/kg	<2,100	<2,000	<1,900	<2,100 [<2,100]	<1,900	<2,000	<2,000	<2,000	<2,000	<1,900 [<1,900]	<2,000	<2,000	<2,000	<2,100
Bromodichloromethane	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
Bromoform	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
Carbon tetrachloride	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
Chlorobenzene	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	26 J [25 J]	<80	<82	<79	<83
Chloroform (Trichloromethane)	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
Chloromethane (Methyl chloride)	ug/kg	<210	<200	<190	<210 [<210]	<190	<200	<200	<200	<200	<190 [<190]	<200	<200	<200	<210
cis-1,3-Dichloropropene	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
Styrene	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
trans-1,3-Dichloropropene	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
1,4-Dioxane	ug/kg	<850	<820	<770	<830 [<830]	<750	<790	<810	<800	<790	<780 [<760]	<800	<820	<790	<830
1,1,1-Trichloroethane	ug/kg	<85	<82	<77	<83 [20 J]	<75	<79	<81	<80	<79	74 J [96]	<80	<82	<79	<83
1,1,2,2-Tetrachloroethane	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
1,1,2-Trichloroethane	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
1,1-Dichloroethane	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	50 J [53 J]	<80	<82	<79	<83
1,1-Dichloroethene	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
1,2-Dichloroethane	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
cis-1,2-Dichloroethene	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
trans-1,2-Dichloroethene	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
Trichloroethene	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
Tetrachloroethene	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	83 [32 J]	<80	<82	<79	<83
Vinyl chloride	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
Chloroethane	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
Benzene	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
Ethylbenzene	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
Toluene	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
o-Xylene	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
m&p-Xylene	ug/kg	<170	<160	<150	<170 [<170]	<150	<160	<160	<160	<160	<160 [<150]	<160	<160	<160	<170
Xylene (total)	ug/kg	<255	<242	<227	<253 [<253]	<225	<239	<241	<240	<239	<238 [<226]	<240	<242	<239	<253
Methyl tert butyl ether (MTBE)	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<850	<820	<770	<830 [<830]	<750	<790	<810	<800	<790	<780 [<760]	<800	<820	<790	<830
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<850	<820	<770	<830 [<830]	<750	<790	<810	<800	<790	<780 [<760]	<800	<820	<790	<830
1,2,4-Trichlorobenzene	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
1,2,4-Trimethylbenzene	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
1,3,5-Trimethylbenzene	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
1,2-Dichloropropane	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
1,3-Dichlorobenzene	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	15 J	<79	49 J [45 J]	<80	<82	27 J	<83
Cyclohexane	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
Methyl cyclohexane	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
Dibromochloromethane	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
Isopropyl benzene	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83
Naphthalene	ug/kg	<85	<82	<77	<83 [<83]	<75	<79	<81	<80	<79	<78 [<76]	<80	<82	<79	<83

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.5-NT196 5 - 6 05/25/12	SB-A5.5-NT196 14 - 15 05/25/12	SB-A5.5-NU185 2 - 3 05/24/12	SB-A5.5-NU185 8 - 9 05/24/12	SB-A5.5-NU185 16 - 17 05/24/12	SB-A5.5-NW194 0 - 1 05/29/12	SB-A5.5-NW194 7.5 - 8.5 05/29/12	SB-A5.5-NW194 11.5 - 12.5 05/29/12	SB-A5.5-NW195 1 - 2 05/25/12	SB-A5.5-NW195 8 - 9 05/25/12	SB-A5.5-NW195 12 - 13 05/25/12	SB-A5.5-NX188 1 - 2 05/24/12	SB-A5.5-NX188 7 - 8 05/24/12	SB-A5.5-NX188 16 - 17 05/24/12
	Units														
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
2,4,6-Trichlorophenol	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
2,4-Dichlorophenol	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
2,4,5-Trichlorophenol	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
2,4-Dimethylphenol	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
2,4-Dinitrophenol	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
2,4-Dinitrotoluene	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
2,6-Dinitrotoluene	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
2-Chloronaphthalene	ug/kg	<80	<40	<70	<200 [<200]	<40	<100 J	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
2-Chlorophenol	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
2-Methylnaphthalene	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
2-Methylphenol	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
2-Nitroaniline	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
2-Nitrophenol	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
3&4-Methylphenol	ug/kg	<200	<70	<100	<400 [<400]	<70	<300	<600	<600	<70	<1,000 J [<2,000 J]	<400	<70	<80	<80
3,3'-Dichlorobenzidine	ug/kg	<80	<40	<70	<200 [<200]	<40	<100 J	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
Naphthalene	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
3-Nitroaniline	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
4-Bromophenyl phenyl ether	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
4-Chloro-3-methylphenol	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
4-Chloroaniline	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
4-Nitroaniline	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
4-Nitrophenol	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
Anthracene	ug/kg	<80	<40	<70	<200 [<200]	<40	100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
Acenaphthene	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
Acenaphthylene	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
Acetophenone	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
Atrazine	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
Benzaldehyde	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
Benzo(a)anthracene	ug/kg	210	<40	130	<200 [<200]	<40	900 J	<300	<300	<40	<600 J [<900 J]	400	<40	<40	<40
Benzo(a)pyrene	ug/kg	200	<40	130 J	<200 [<200]	<40	900 J	<300	300	<40	<600 J [<900 J]	500	<40	<40	<40
Benzo(b)fluoranthene	ug/kg	430 J	<40	300 J	<200 [<200]	<40	2,100 J	<300	<300	<40	<600 J [<900 J]	1,300 J	<40	60 J	<40
Benzo(g,h,i)perylene	ug/kg	110	<40	90 J	<200 [<200]	<40	800 J	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
Benzo(k)fluoranthene	ug/kg	460 J	<40	310 J	<200 [<200]	<40	2,200 J	<300	<300	<40	<600 J [<900 J]	1,300 J	<40	60 J	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
bis(2-Chloroethoxy)methane	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
bis(2-Chloroethyl)ether	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<200	<70	<100	<400 [<400]	<70	<300 J	<600	<600	<70	<1,000 J [<2,000 J]	<400	<70	<80	<80
Butyl benzylphthalate (BBP)	ug/kg	<80	<40	<70	<200 [<200]	<40	<100 J	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
Caprolactam	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
Carbazole	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
Chrysene	ug/kg	240	<40	140	<200 [<200]	<40	1,000 J	<300	<300	<40	600 J [<900 J]	600	<40	<40	<40
Dibenz(a,h)anthracene	ug/kg	<200	<70	<100 J	<400 [<400]	<70	<300 J	<600	<600	<70	<1,000 J [<2,000 J]	<400	<70	<80	<80
Dibenzofuran	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
Diethyl phthalate	ug/kg	<200	<70	<100	<400 [<400]	<70	<300	<600	<600 B	<70	<1,000 J [<2,000 J]	<400	<70	<80	<80
Dimethyl phthalate	ug/kg	<80	40	<70	<200 [<200]	<50 B	<100	<500 B	<900 B	<40	<600 J [<900 J]	<200	<60 B	<50 B	<170 B
Di-n-butylphthalate (DBP)	ug/kg	<200	<70	<100	<400 [<400]	<70	<300	<600	<600	<70	<1,000 J [<2,000 J]	<400	<70	<80	<80
Di-n-octyl phthalate (DnOP)	ug/kg	<200	<70	<100 J	<400 [<400]	<70	<300 J	<600	<600	<70	<1,000 J [<2,000 J]	<400	<70	<80	<80
Fluoranthene	ug/kg	440	<40	290	<200 [<200]	<40	1,300	<300	<300	<40	<600 J [<900 J]	600	40	40	<40
Fluorene	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
Hexachlorobenzene	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
Hexachlorobutadiene	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
Hexachlorocyclopentadiene	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
Hexachloroethane	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
Indeno(1,2,3-cd)pyrene	ug/kg	90	<40	<70 J	<200 [<200]	<40	600 J	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
Isophorone	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
Nitrobenzene	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
N-Nitrosodi-n-propylamine	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
N-Nitrosodiphenylamine	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
Pentachlorophenol	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
Phenanthrene	ug/kg	240	<40	160	<200 [<200]	<40	700	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
Phenol	ug/kg	<80	<40	<70	<200 [<200]	<40	<100	<300	<300	<40	<600 J [<900 J]	<200	<40	<40	<40
Pyrene	ug/kg	390	<40	320	<200 [<200]	<40	2,300 J	<300	500	<40	600 J [1,100 J]	600	<40	40	<40

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A5.5-NT196	SB-A5.5-NT196	SB-A5.5-NU185	SB-A5.5-NU185	SB-A5.5-NU185	SB-A5.5-NW194	SB-A5.5-NW194	SB-A5.5-NW194	SB-A5.5-NW195	SB-A5.5-NW195	SB-A5.5-NW195	SB-A5.5-NW195	SB-A5.5-NX188	SB-A5.5-NX188	SB-A5.5-NX188
		5 - 6	14 - 15	2 - 3	8 - 9	16 - 17	0 - 1	7.5 - 8.5	11.5 - 12.5	1 - 2	8 - 9	12 - 13	1 - 2	7 - 8	16 - 17	
		05/25/12	05/25/12	05/24/12	05/24/12	05/24/12	05/29/12	05/29/12	05/29/12	05/25/12	05/25/12	05/25/12	05/25/12	05/24/12	05/24/12	05/24/12
PCBs																
Aroclor-1016 (PCB-1016)	ug/kg	NA	<3	<3	<3 [<3]	<3	<100 J	<5	<3	<3	<10 [<20]	<3	<3	<3	<3	<3
Aroclor-1221 (PCB-1221)	ug/kg	NA	<3	<3	<3 [<3]	<3	<100 J	<5	<3	<3	<10 [<20]	<3	<3	<3	<3	<3
Aroclor-1232 (PCB-1232)	ug/kg	NA	<3	<3	<3 [<3]	<3	<100 J	<5	<3	<3	<10 [<20]	<3	<3	<3	<3	<3
Aroclor-1242 (PCB-1242)	ug/kg	NA	<3	<3	<3 [<3]	<3	800 J	<5	<3	<3	<10 [<20]	<3	<3	<3	<3	<3
Aroclor-1248 (PCB-1248)	ug/kg	NA	<3	<3	<3 [<3]	<3	<100 J	6 Q	<3	<3	<10 [<20]	<3	<3	<3	<3	<3
Aroclor-1254 (PCB-1254)	ug/kg	NA	<3	<3	<3 [<3]	<3	<100 J	<5	6	<3	40 Q [70 Q]	<3	<3	<3	<3	<3
Aroclor-1260 (PCB-1260)	ug/kg	NA	<3	<3	<3 [<3]	<3	<100 J	<5	<3	<3	<10 [<20]	<3	<3	<3	<3	<3
Total PCBs	ug/kg	NA	ND	ND	ND [ND]	ND	800 J	6	6	ND	40 [70]	ND	ND	ND	ND	ND
Inorganics																
Antimony	mg/kg	NA	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20 [<0.2]	<0.21	<0.21	<0.21	<0.21	<0.21
Arsenic	mg/kg	NA	0.78	1.02	1.23 [1.36]	1.97	0.93	2.48	7.99 ^{abi}	0.92	11.5 [12.4] ^{abi}	7.91 ^{abi}	1.16	1.07	1.97	1.97
Barium	mg/kg	NA	23.1	9.28	20.5 [27.6]	19.9	26.5	5.67	14.7	9.55	15.1 [20.6]	20.5	4.94	25.8	55.4	55.4
Beryllium	mg/kg	NA	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20 [<0.2]	<0.21	<0.21	<0.21	<0.21	0.28
Boron	mg/kg	NA	<4.0	<4.0	<4.0 [<4]	<4.0	<4.0	<4.0	<4.2	<4.0	<4.0 [<4]	<4.2	<4.2	<4.2	<4.3	<4.3
Cadmium	mg/kg	NA	<0.10	0.12	<0.10 [<0.1]	<0.10	0.12	<0.10	0.14	<0.10	0.13 [0.12]	0.16	<0.10	0.12	0.15	0.15
Chromium	mg/kg	NA	2.68	3.19	3.00 [3.47]	1.95	3.30	2.49	20.8 ⁱ	1.24	2.06 [2.27]	2.93	1.28	2.73	4.41	4.41
Cobalt	mg/kg	NA	2.57	7.61 ^{abi}	2.58 [2.55]	1.95	1.90	1.42	2.02	1.67	1.39 [1.55]	2.02	2.05	1.92	4.57	4.57
Copper	mg/kg	NA	9.08	4.53	8.81 [13.9]	5.95	4.76	4.27	26.3	2.81	14.7 [10.3]	8.84	1.29	7.41	13.8	13.8
Lead	mg/kg	NA	3.71	5.10	4.36 [5.78]	3.37	6.14	3.55	12.2	2.26	9.88 [9.77]	8.75	1.66	4.02	6.71	6.71
Manganese	mg/kg	NA	227	254	218 [305]	183	264	131	160	194	155 [148]	150	117	170	301	301
Mercury	mg/kg	NA	0.0094	0.0175	0.0092 [0.0097]	0.0087	0.0122	0.0057	0.0146	0.0152	0.0161 [0.0127]	0.0120	<0.0055	0.0104	0.0145	0.0145
Nickel	mg/kg	NA	8.77	5.04	7.39 [8.71]	6.04	5.32	4.44	43.4 ⁱ	5.19	5.53 [6.26]	6.04	3.61	5.44	13.2	13.2
Selenium	mg/kg	NA	<0.20	<0.20	<0.20 [<0.2]	<0.20	0.20	<0.20	<0.21	<0.20	<0.20 [0.2]	<0.21	<0.21	<0.21	<0.21	0.25
Silver	mg/kg	NA	<0.10	0.49	<0.10 [<0.1]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10 [<0.1]	<0.10	0.12	<0.10	<0.10	<0.10
Thallium	mg/kg	NA	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20 [<0.2]	<0.21	<0.21	<0.21	<0.21	<0.21
Vanadium	mg/kg	NA	5.43	4.13	5.93 [6.38]	3.72	2.78	3.05	<0.21	2.56	3.71 [3.84]	4.43	2.09	5.69	7.96	7.96
Zinc	mg/kg	NA	13.4	9.46	19.1 [14.6]	14.1	18.7	10.7	17.8	4.61	12.8 [13.5]	12.5	2.87	10.8	19.5	19.5
Miscellaneous																
Total solids	%	88	91	91	91 [89]	91	92	90	87	93	87 [92]	86	90	85	87	87

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A8-LC158	SB-A8-LC158	SB-A8-LF155	SB-A8-LF155	SB-A8-LF155A	SB-A8-LF155A	SB-A8-LF161	SB-A8-LF161	SB-A8-LF161	SB-A8-LH158	SB-A8-LH158	SB-A8-LH158	SB-A8-LK166	SB-A8-LK166	SB-A8-LL165	SB-A8-LL165
		1 - 2	6 - 7	0.5 - 1	1 - 2	0 - 1	6 - 7	0.5 - 1.5	5.5 - 6.5	9 - 10	0.6 - 1	2 - 3	6.5 - 7.5	1 - 2	7 - 8	1 - 2	7 - 8
		05/17/12	05/17/12	05/17/12	05/17/12	05/23/12	05/23/12	05/17/12	05/17/12	05/17/12	05/17/12	05/17/12	05/17/12	05/17/12	05/17/12	05/17/12	05/23/12
Volatile Organics																	
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
1,2-Dichlorobenzene	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
1,4-Dichlorobenzene	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
2-Hexanone	ug/kg	<840	<840	<770	<650	<800	<770	<810	<870	<830	NA	<800	<720	<810	<750	<800	<820 [<870]
Acetone	ug/kg	<2,100 J	<2,100 J	<1,900	<2,100 BJ	<2,000	<1,900	<2,000	JB	JB	NA	<2,000 J	<1,800 J	<2,000 J	<1,900 J	<2,000	<2,100 [<2,200]
Bromodichloromethane	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
Bromoform	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
Carbon tetrachloride	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
Chlorobenzene	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
Chloroform (Trichloromethane)	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
Chloromethane (Methyl chloride)	ug/kg	<210	<210	<190	<160	<200	<190	<200	<220	<210	NA	<200	<180	<200	<190	<200	<210 [<220]
cis-1,3-Dichloropropene	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
Styrene	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
trans-1,3-Dichloropropene	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
1,4-Dioxane	ug/kg	<840	<840	<770	<650	<800	<770	<810	<870	<830	NA	<800	<720	<810	<750	<800	<820 [<870]
1,1,1-Trichloroethane	ug/kg	<84	<84	88	<65	<80	<77	<81	<87	<83	NA	180	<72	25 J	<75	50 J	<82 [<87]
1,1,2,2-Tetrachloroethane	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
1,1,2-Trichloroethane	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
1,1-Dichloroethane	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	25 J	<72	<81	<75	<80	<82 [<87]
1,1-Dichloroethene	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
1,2-Dichloroethane	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
cis-1,2-Dichloroethene	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
trans-1,2-Dichloroethene	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
Trichloroethene	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
Tetrachloroethene	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
Vinyl chloride	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
Chloroethane	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
Benzene	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
Ethylbenzene	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
Toluene	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
o-Xylene	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
m&p-Xylene	ug/kg	<170	<170	<150	<130	<160	<150	<160	<170	<170	NA	<160	<140	<160	<150	<160	<160 [<170]
Xylene (total)	ug/kg	<254	<254	<227	<195	<240	<227	<241	<257	<253	NA	<240	<212	<241	<225	<240	<242 [<257]
Methyl tert butyl ether (MTBE)	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<840	<840	<770	<650	<800	<770	<810	<870	<830	NA	<800	<720	<810	<750	<800	<820 [<870]
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<840	<840	<770	<650	<800	<770	<810	<870	<830	NA	<800	<720	<810	<750	<800	<820 [<870]
1,2,4-Trichlorobenzene	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
1,2,4-Trimethylbenzene	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
1,3,5-Trimethylbenzene	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
1,2-Dichloropropane	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
1,3-Dichlorobenzene	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
Cyclohexane	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
Methyl cyclohexane	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
Dibromochloromethane	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
Isopropyl benzene	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]
Naphthalene	ug/kg	<84	<84	<77	<65	<80	<77	<81	<87	<83	NA	<80	<72	<81	<75	<80	<82 [<87]

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

	Location ID:		SB-A8-LC158	SB-A8-LC158	SB-A8-LF155	SB-A8-LF155	SB-A8-LF155A	SB-A8-LF155A	SB-A8-LF161	SB-A8-LF161	SB-A8-LF161	SB-A8-LH158	SB-A8-LH158	SB-A8-LH158	SB-A8-LK166	SB-A8-LK166	SB-A8-LL165	SB-A8-LL165
	Sample Depth(ft):		1 - 2	6 - 7	0.5 - 1	1 - 2	0 - 1	6 - 7	0.5 - 1.5	5.5 - 6.5	9 - 10	0.6 - 1	2 - 3	6.5 - 7.5	1 - 2	7 - 8	1 - 2	7 - 8
	Date Collected:		05/17/12	05/17/12	05/17/12	05/17/12	05/23/12	05/23/12	05/17/12	05/17/12	05/17/12	05/17/12	05/17/12	05/17/12	05/17/12	05/17/12	05/23/12	05/23/12
	Units																	
Semivolatle Organics																		
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	NA	<30	<40	<40	<40	<40	<40	<40	<40	<70	<40 [<40]	<40	<1,000 J	<40	<40 [<40]
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40	<40	NA	<30	<40 J	<40 J	<40 J	<40	<40	<40	<40	<70	<40 [<40]	<40	<1,000 J	<40 J	<40 J [<40 J]
2,4,6-Trichlorophenol	ug/kg	<40	<40	NA	<30	<40	<40	<40	<40	<40	<40	<40	<70	<40 [<40]	<40	<1,000 J	<40	<40 [<40]
2,4-Dichlorophenol	ug/kg	<40	<40	NA	<30	<40 J	<40 J	<40 J	<40	<40	<40	<40	<70	<40 [<40]	<40	<1,000 J	<40 J	<40 J [<40 J]
2,4,5-Trichlorophenol	ug/kg	<40	<40	NA	<30	<40	<40	<40	<40	<40	<40	<40	<70	<40 [<40]	<40	<1,000 J	<40	<40 [<40]
2,4-Dimethylphenol	ug/kg	<40	<40	NA	<30	<40	<40	<40	<40	<40	<40	<40	<70	<40 [<40]	<40	<1,000 J	<40	<40 [<40]
2,4-Dinitrophenol	ug/kg	<40	<40	NA	<30	<40	<40	<40	<40	<40	<40	<40	<70	<40 [<40]	<40	<1,000 J	<40	<40 [<40]
2,4-Dinitrotoluene	ug/kg	<40	<40	NA	<30	<40	<40	<40	<40	<40	<40	<40	<70	<40 [<40]	<40	<1,000 J	<40	<40 [<40]
2,6-Dinitrotoluene	ug/kg	<40	<40	NA	<30	<40	<40	<40	<40	<40	<40	<40	<70	<40 [<40]	<40	<1,000 J	<40	<40 [<40]
2-Chloronaphthalene	ug/kg	<40	<40	NA	<30	<40	<40	<40	<40	<40	<40	<40	<70	<40 [<40]	<40	<1,000 J	<40	<40 [<40]
2-Chlorophenol	ug/kg	<40	<40	NA	<30	<40	<40	<40	<40	<40	<40	<40	<70	<40 [<40]	<40	<1,000 J	<40	<40 [<40]
2-Methylnaphthalene	ug/kg	<40	<40	NA	<30	<40	<40	<40	<40	<40	<40	<40	<70	<40 [<40]	<40	<1,000 J	<40	<40 [<40]
2-Methylphenol	ug/kg	<40	<40	NA	<30	<40	<40	<40	<40	<40	<40	<40	<70	<40 [<40]	<40	<1,000 J	<40	<40 [<40]
2-Nitroaniline	ug/kg	<40	<40	NA	<30	<40	<40	<40	<40	<40	<40	<40	<70	<40 [<40]	<40	<1,000 J	<40	<40 [<40]
2-Nitrophenol	ug/kg	<40	<40	NA	<30	<40 J	<40 J	<40 J	<40	<40	<40	<40	<70	<40 [<40]	<40	<1,000 J	<40 J	<40 J [<40 J]
3&4-Methylphenol	ug/kg	<70	<80	NA	<70	<70	<80	<80	<80	<80	<70	<70	<100	<70 [<70]	<70	<2,000 J	<70	<70 [<70]
3,3'-Dichlorobenzidine	ug/kg	<40	<40	NA	<30	<40	<40	<40	<40	<40	<40	<40	<70	<40 [<40]	<40	<1,000 J	<40	<40 [<

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A8-LC158	SB-A8-LC158	SB-A8-LF155	SB-A8-LF155	SB-A8-LF155A	SB-A8-LF155A	SB-A8-LF161	SB-A8-LF161	SB-A8-LF161	SB-A8-LF161	SB-A8-LH158	SB-A8-LH158	SB-A8-LH158	SB-A8-LK166	SB-A8-LK166	SB-A8-LL165	SB-A8-LL165
		1 - 2	6 - 7	0.5 - 1	1 - 2	0 - 1	6 - 7	0.5 - 1.5	5.5 - 6.5	9 - 10	0.6 - 1	2 - 3	6.5 - 7.5	1 - 2	7 - 8	1 - 2	7 - 8	
		05/17/12	05/17/12	05/17/12	05/17/12	05/23/12	05/23/12	05/17/12	05/17/12	05/17/12	05/17/12	05/17/12	05/17/12	05/17/12	05/17/12	05/23/12	05/23/12	
PCBs																		
Aroclor-1016 (PCB-1016)	ug/kg	<3	<3	NA	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<100	<3	<3
Aroclor-1221 (PCB-1221)	ug/kg	<3	<3	NA	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<100	<3	<3
Aroclor-1232 (PCB-1232)	ug/kg	<3	<3	NA	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<100	<3	<3
Aroclor-1242 (PCB-1242)	ug/kg	<3	<3	NA	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	400	<3	<3
Aroclor-1248 (PCB-1248)	ug/kg	<3	<3	NA	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<100	<3	<3
Aroclor-1254 (PCB-1254)	ug/kg	<3	<3	NA	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<100	<3	<3
Aroclor-1260 (PCB-1260)	ug/kg	<3	<3	NA	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	3	<100	<3	<3
Total PCBs	ug/kg	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	400	ND	ND
Inorganics																		
Antimony	mg/kg	<0.20	<0.21	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20
Arsenic	mg/kg	0.41	0.84	NA	1.26	0.94	0.71	1.02	0.33	1.44	1.06	1.28	0.38	1.20	1.24	1.14	0.87	
Barium	mg/kg	6.13	22.1	NA	6.41	7.61	17.1	6.63	5.40	30.8	11.3	18.5	24.6	24.5	25.1	12.0	5.46	
Beryllium	mg/kg	<0.20	0.25	NA	<0.20	<0.20	<0.21	<0.20	<0.20	0.21	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	
Boron	mg/kg	<4.0	<4.2	NA	<4.0	<4.0	<4.3	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	7.63	<4.1	<4.0	
Cadmium	mg/kg	<0.10	0.18	NA	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.19	0.19	0.18	0.12	<0.10	
Chromium	mg/kg	0.75	2.55	NA	2.68	1.33	1.75	1.44	0.71	4.80	1.76	6.42	2.51	5.36	29.7 ⁱ	1.71	1.27	
Cobalt	mg/kg	1.11	1.74	NA	1.91	3.00	2.83	2.93	1.16	4.73	3.40	2.19	1.20	18.0 ^{abi}	2.54	1.30	1.55	
Copper	mg/kg	1.18	7.74	NA	3.03	3.16	2.01	2.07	1.24	6.69	3.22	3.93	6.10	7.56	32.2 ⁱ	3.98	2.59	
Lead	mg/kg	2.00	4.72	NA	1.81	2.42	2.86	2.38	1.08	4.97	5.82	9.25	4.68	4.39	42.4 ⁱ	3.99	2.03	
Manganese	mg/kg	144	78.6	NA	126	176	237	153	109	467 ^{abi}	146	165	37.6	223	387	131	154	
Mercury	mg/kg	0.0113	0.0265	NA	<0.0052	<0.0053	<0.0064	<0.0059	<0.0060	0.0100	0.0098	0.0150	0.0294	0.0078	0.0294	0.0079	<0.0055	
Nickel	mg/kg	2.46	4.05	NA	3.78	5.57	7.78	4.35	2.39	11.2	4.32	4.56	2.51	5.59	14.0	3.90	5.40	
Selenium	mg/kg	<0.20	<0.21	NA	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20	0.22	<0.20	0.21	<0.20	<0.21	<0.20	<0.20	
Silver	mg/kg	<0.10	<0.10	NA	<0.10	0.24	<0.10	0.15	<0.10	<0.10	0.12	<0.10	<0.10	1.77 ^{bi}	<0.10	<0.10	<0.10	
Thallium	mg/kg	<0.20	<0.21	NA	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	
Vanadium	mg/kg	1.06	8.99	NA	2.10	2.37	2.98	1.75	0.85	6.68	2.30	3.43	8.16	2.62	2.65	5.39	1.67	
Zinc	mg/kg	1.96	11.3	NA	5.75	5.27	5.07	6.53	1.60	14.6	8.11	6.45	8.01	10.0	13.6	9.16	4.55	
Miscellaneous																		
Total solids	%	92	86	NA	96	95	80	85	83	90	92	93	90	90	86	91	90	

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A8-LN163 1.5 - 2.5 05/18/12	SB-A8-LN163 8 - 9 05/18/12	SB-A8-LN168 1 - 2 05/18/12	SB-A8-LN168 10 - 11 05/18/12	SB-A8-LN168 16 - 17 05/18/12	SB-A8-LN168 18 - 19 05/18/12	SB-A8-LP166 1 - 2 05/18/12	SB-A8-LP166 7 - 8 05/18/12	SB-A8-LP166 17 - 18 05/18/12	VAP-A2-PA66 22 - 23 09/13/12	VAP-A2-PA66 27 - 28 09/13/12	VAP-A2-PA66 31 - 32 09/13/12	VAP-A2-PA66 37 - 38 09/13/12	VAP-A2-PA66 43 - 44 09/13/12	VAP-A2-PA66 49 - 50 09/13/12	VAP-A2-PA66 53 - 54 09/13/12
	Units																
Volatile Organics																	
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
1,2-Dichlorobenzene	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
1,4-Dichlorobenzene	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
2-Hexanone	ug/kg	<790	<810	<790	<800	<870	<890	<840	<840	<1,300	<630	<580	<650	<580	<630 [<610]	<580	<680
Acetone	ug/kg	<2,000	<2,000	<2,000	<2,000	<2,200	<2,200	<2,100	<2,100	<3,300	<630	<580	<650	<580	<630 [<610]	<580	<680
Bromodichloromethane	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
Bromoform	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<70	<60	<60 [<60]	<60	<70
Carbon disulfide	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
Carbon tetrachloride	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
Chlorobenzene	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
Chloroform (Trichloromethane)	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
Chloromethane (Methyl chloride)	ug/kg	<200	<200	<200	<200	<220	<220	<210	<210	<330	<60	<60	<70	<60	<60 [<60]	<60	<70
cis-1,3-Dichloropropene	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<70	<60	<60 [<60]	<60	<70
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<630	<580	<650	<580	<630 [<610]	<580	<680
Methylene chloride	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
Styrene	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
trans-1,3-Dichloropropene	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<70	<60	<60 [<60]	<60	<70
Trifluorotrichloroethane (Freon 113)	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
1,4-Dioxane	ug/kg	<790	<810	<790	<800	<870	<890	<840	<840	<1,300	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	<79	24 J	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
1,1,2,2-Tetrachloroethane	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
1,1,2-Trichloroethane	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
1,1-Dichloroethane	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
1,1-Dichloroethene	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
1,2-Dichloroethane	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
cis-1,2-Dichloroethene	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
trans-1,2-Dichloroethene	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
Trichloroethene	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
Tetrachloroethene	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
Vinyl chloride	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
Chloroethane	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
Benzene	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
Ethylbenzene	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
Toluene	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
o-Xylene	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
m&p-Xylene	ug/kg	<160	<160	<160	<160	<170	<180	<170	<170	<270	<100	<100	<100	<100	<100 [<100]	<100	<100
Xylene (total)	ug/kg	<239	<241	<239	<240	<257	<269	<254	<254	<400	<160	<160	<170	<160	<160 [<160]	<160	<170
Methyl tert butyl ether (MTBE)	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<790	<810	<790	<800	<870	<890	<840	<840	<1,300	<630	<580	<650	<580	<630 [<610]	<580	<680
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<790	<810	<790	<800	<870	<890	<840	<840	<1,300	<630	<580	<650	<580	<630 [<610]	<580	<680
1,2,4-Trichlorobenzene	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
1,2,4-Trimethylbenzene	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
1,3-Dichlorobenzene	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
Cyclohexane	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
Methyl cyclohexane	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
Dibromochloromethane	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
Isopropyl benzene	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	<60	<60	<70	<60	<60 [<60]	<60	<70
Naphthalene	ug/kg	<79	<81	<79	<80	<87	<89	<84	<84	<130	NA	NA	NA	NA	NA	NA	NA

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A8-LN163 1.5 - 2.5 05/18/12	SB-A8-LN163 8 - 9 05/18/12	SB-A8-LN168 1 - 2 05/18/12	SB-A8-LN168 10 - 11 05/18/12	SB-A8-LN168 16 - 17 05/18/12	SB-A8-LN168 18 - 19 05/18/12	SB-A8-LP166 1 - 2 05/18/12	SB-A8-LP166 7 - 8 05/18/12	SB-A8-LP166 17 - 18 05/18/12	VAP-A2-PA66 22 - 23 09/13/12	VAP-A2-PA66 27 - 28 09/13/12	VAP-A2-PA66 31 - 32 09/13/12	VAP-A2-PA66 37 - 38 09/13/12	VAP-A2-PA66 43 - 44 09/13/12	VAP-A2-PA66 49 - 50 09/13/12	VAP-A2-PA66 53 - 54 09/13/12
	Units																
Semivolatile Organics																	
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<500 J	<40 J	<30 J	<40 J	<40 J	<40 J	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/kg	<500 J	<40 J	<30 J	<40 J	<40 J	<40 J	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/kg	<1,000 J	<70	<70	<80	<70	<80	<80	<80	<2,000 J	<70 [<80]	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/kg	<500 J	<40 J	<30 J	<40 J	<40 J	<40 J	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Anthracene	ug/kg	<500 J	<40 J	<30 J	<40 J	<40 J	<40 J	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Acetophenone	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Atrazine	ug/kg	<500 J	<40 J	<30 J	<40 J	<40 J	<40 J	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/kg	<500 J	<40	<30	<40	<40	<40	180	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/kg	<500 J	<40 J	<30 J	<40 J	<40 J	<40 J	180	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/kg	<500 J	<40 J	<30 J	<40 J	<40 J	<40 J	350 J	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/kg	<500 J	<40 J	<30 J	<40 J	<40 J	<40 J	130	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/kg	<500 J	<40	<30	<40	<40	<40	360 J	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<1,000 J	<70	<70	<80	<70	<80	<80	<80	<2,000 J	<70 [<80]	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Caprolactam	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Chrysene	ug/kg	<500 J	<40	<30	<40	<40	<40	220	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/kg	<1,000 J	<70	<70	<80	<70	<80	<80	<80	<2,000 J	<70 [<80]	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/kg	<1,000 J	<70	<70	<80	<70	<80	<80	<80	<2,000 J	<70 [<80]	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/kg	<500 J	<260 B	<240 B	<290 B	<230 B	<320 B	<60 B	<60 B	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/kg	<1,000 J	<70	<70	<80	<70	<80	<80	<80	<2,000 J	<70 [<80]	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/kg	<1,000 J	<70	<70	<80	<70	<80	<80	<80	<2,000 J	<70 [<80]	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Fluorene	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	<500 J	<40	<30	<40	<40	<40	110	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Isophorone	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/kg	<500 J	<40 J	<30 J	<40 J	<40 J	<40 J	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/kg	<500 J	<40 J	<30 J	<40 J	<40 J	<40 J	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/kg	<500 J	<40 J	<30 J	<40 J	<40 J	<40 J	180	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Phenol	ug/kg	<500 J	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA
Pyrene	ug/kg	<500 J	<40	<30	<40	<40	<40	370	<40	<1,000 J	<40 [<40]	NA	NA	NA	NA	NA	NA

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A8-LN163	SB-A8-LN163	SB-A8-LN168	SB-A8-LN168	SB-A8-LN168	SB-A8-LN168	SB-A8-LN168	SB-A8-LP166	SB-A8-LP166	SB-A8-LP166	VAP-A2-PA66	VAP-A2-PA66	VAP-A2-PA66	VAP-A2-PA66	VAP-A2-PA66	VAP-A2-PA66
		1.5 - 2.5	8 - 9	1 - 2	10 - 11	16 - 17	18 - 19	1 - 2	7 - 8	17 - 18	22 - 23	27 - 28	31 - 32	37 - 38	43 - 44	49 - 50	53 - 54
		05/18/12	05/18/12	05/18/12	05/18/12	05/18/12	05/18/12	05/18/12	05/18/12	05/18/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12	09/13/12
PCBs																	
Aroclor-1016 (PCB-1016)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	7 Q	<3	<3	<3	<3	<3	<3	10	<3	<3	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	7	ND	ND	ND	ND	ND	ND	10	ND	[ND]	NA	NA	NA	NA	NA	NA
Inorganics																	
Antimony	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	1.61	0.83	1.08	1.10	1.28	0.89	1.11	2.24	1.88	[1.72]	NA	NA	NA	NA	NA	NA
Barium	mg/kg	24.5	28.4	5.49	6.33	22.5	3.58	20.3	94.0 ⁱ	3.98	[3.67]	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20	NA	NA	NA	NA	NA	NA
Boron	mg/kg	<4.0	<4.0	<4.0	<4.0	<4.1	<4.1	<4.3	<4.1	<4.0	<4	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	0.13	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.14	<0.10	<0.1	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	6.82	2.67	0.75	0.82	6.33	0.58	4.14	9.82	1.34	[1.31]	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	3.34	3.21	0.82	0.85	2.45	0.40	121 ^{abi}	1.79	0.98	[1.06]	NA	NA	NA	NA	NA	NA
Copper	mg/kg	10.5	8.95	2.51	2.01	8.61	1.43	5.17	9.69	2.92	[2.51]	NA	NA	NA	NA	NA	NA
Lead	mg/kg	29.3 ⁱ	3.87	1.65	1.65	3.99	0.94	3.60	5.64	1.53	[1.6]	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	366	240	83.7	92.8	241	65.4	129	393	91.9	[91]	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	0.0062	0.0118	<0.0052	<0.0060	0.0086	<0.0058	0.0078	0.0092	<0.0057	<0.0062	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	7.96	12.3	2.59	2.73	7.78	1.55	4.19	6.05	2.68	[2.94]	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	<0.20	<0.20	<0.20	<0.20	0.21	<0.20	<0.21	<0.20	<0.20	<0.20	NA	NA	NA	NA	NA	NA
Silver	mg/kg	0.18	<0.10	<0.10	<0.10	<0.10	<0.10	12.1 ^{abi}	<0.10	<0.10	<0.1	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	4.69	4.84	1.15	1.35	4.39	0.94	3.29	4.38	1.23	[1.29]	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	9.39	9.71	5.60	5.62	12.2	4.81	8.97	32.7	15.5	[15.1]	NA	NA	NA	NA	NA	NA
Miscellaneous																	
Total solids	%	96	89	96	84	89	84	88	86	89	[80]	90	93	88	92	90	[90]

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.1-MT115* 4 - 5 05/10/12	VAP-A5.1-MT115 11 - 12 05/11/12	VAP-A5.1-MW162* 4 - 4.5 05/04/12	VAP-A5.1-MW162* 12 - 13 05/04/12	VAP-A5.2-NK132 1 - 2 05/15/12	VAP-A5.2-NK132 8 - 9 05/15/12	VAP-A5.2-NK132 14 - 15 05/16/12	VAP-A5.2-NK132 27 - 28 05/16/12	VAP-A5.2-NK132 37 - 38 05/16/12	VAP-A5.2-NK132 42 - 43 05/16/12	VAP-A5.2-NK132 47 - 48 05/16/12	VAP-A5.2-NK132 52 - 53 05/16/12	VAP-A5.2-NK132 57 - 58 05/16/12
	Units													
Volatile Organics														
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
1,2-Dichlorobenzene	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	110	<79	<73	<78	<74	<76	<72	<81
1,4-Dichlorobenzene	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	21 J	<79	<73	<78	<74	<76	<72	<81
2-Hexanone	ug/kg	<740	<830 [<840]	<760 [<760]	<660 [<620]	<550	<570	<790	<730	<780	<740	<760	<720	<810
Acetone	ug/kg	<1,900	<2,100 [<2,100]	<1,900 [<1,900]	<1,700 [<1,600]	<2,100 BJ	<570	<2,400 B	<2,100 B	<2,100 B	<2,100 B	<1,900	<2,300 B	<2,000
Bromodichloromethane	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
Bromoform	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	<50	<60	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
Carbon tetrachloride	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
Chlorobenzene	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
Chloroform (Trichloromethane)	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
Chloromethane (Methyl chloride)	ug/kg	<190	<210 [<210]	<190 [<190]	<170 [<160]	<50	<60	<200	<180	<200	<190	<190	<180	<200
cis-1,3-Dichloropropene	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	<50	<60	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	<550	<570	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
Styrene	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
trans-1,3-Dichloropropene	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	<50	<60	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
1,4-Dioxane	ug/kg	<740	<830 [<840]	<760 J [<760 J]	<660 J [<620 J]	<5,000	<6,000	<790	<730	<780	<740	<760	<720	<810
1,1,1-Trichloroethane	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	27 J	27 J	<79	<73	<78	<74	<76	<72	<81
1,1,2,2-Tetrachloroethane	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
1,1,2-Trichloroethane	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
1,1-Dichloroethane	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	29 J	160	<79	<73	<78	<74	<76	<72	<81
1,1-Dichloroethene	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
1,2-Dichloroethane	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
cis-1,2-Dichloroethene	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	20 J	<79	<73	<78	<74	<76	<72	<81
trans-1,2-Dichloroethene	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
Trichloroethene	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	220 ^a	<79	<73	<78	<74	<76	<72	<81
Tetrachloroethene	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	27 J	160 ^a	<79	<73	<78	<74	<76	<72	<81
Vinyl chloride	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
Chloroethane	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	75	<60	120	<73	<78	<74	<76	<72	<81
Benzene	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
Ethylbenzene	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
Toluene	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	13 J	<79	<73	<78	<74	<76	<72	<81
o-Xylene	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	18 J	<79	<73	<78	<74	<76	<72	<81
m&p-Xylene	ug/kg	<150	<170 [<170]	<150 [<150]	<130 [<120]	<100	<100	<160	<150	<160	<150	<150	<140	<160
Xylene (total)	ug/kg	<224	<253 [<254]	<226 [<226]	<196 [<182]	<150	18 J	<239	<223	<238	<224	<226	<212	<241
Methyl tert butyl ether (MTBE)	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73 J	<78 J	<74 J	<76 J	<72 J	<81 J
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<740	<830 [<840]	<760 [<760]	<660 [<620]	<550	<570	<790	<730	<780	<740	<760	<720	<810
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<740	<830 [<840]	<760 [<760]	<660 [<620]	<550	<570	<790	<730	<780	<740	<760	<720	<810
1,2,4-Trichlorobenzene	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
1,2,4-Trimethylbenzene	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<71	120	<79	<73	<78	<74	<76	<72	<81
1,3,5-Trimethylbenzene	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<71	35 J	<79	<73	<78	<74	<76	<72	<81
1,2-Dichloropropane	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
1,3-Dichlorobenzene	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
Cyclohexane	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
Methyl cyclohexane	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
Dibromochloromethane	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
Isopropyl benzene	ug/kg	<74	<83 [<84]	<76 [<76]	<66 [<62]	<50	<60	<79	<73	<78	<74	<76	<72	<81
Naphthalene	ug/kg	100	<83 [<84]	<76 [<76]	<66 [<62]	<71	<78	<79	<73	<78	<74	<76	<72	<81

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.1-MT115* 4 - 5 05/10/12	VAP-A5.1-MT115 11 - 12 05/11/12	VAP-A5.1-MW162* 4 - 4.5 05/04/12	VAP-A5.1-MW162* 12 - 13 05/04/12	VAP-A5.2-NK132 1 - 2 05/15/12	VAP-A5.2-NK132 8 - 9 05/15/12	VAP-A5.2-NK132 14 - 15 05/16/12	VAP-A5.2-NK132 27 - 28 05/16/12	VAP-A5.2-NK132 37 - 38 05/16/12	VAP-A5.2-NK132 42 - 43 05/16/12	VAP-A5.2-NK132 47 - 48 05/16/12	VAP-A5.2-NK132 52 - 53 05/16/12	VAP-A5.2-NK132 57 - 58 05/16/12
	Units													
Semivolatile Organics														
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<2,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<2,000 J	<40 J [<40 J]	<40 J [<40 J]	<40 J [<40 J]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
2,4,6-Trichlorophenol	ug/kg	<2,000 J	<40 [<40]	<40 J [<40 J]	<40 J [<40 J]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
2,4-Dichlorophenol	ug/kg	<2,000 J	<40 J [<40]	<40 J [<40 J]	<40 J [<40 J]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
2,4,5-Trichlorophenol	ug/kg	<2,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
2,4-Dimethylphenol	ug/kg	<2,000 J	<40 [<40]	<40 J [<40 J]	<40 J [<40 J]	<40	<1,000 J	<40	<40 J	<40	<40	<40	<30	<40
2,4-Dinitrophenol	ug/kg	<2,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40 J	<40	<40	<40 J	<40 J	<30 J	<40
2,4-Dinitrotoluene	ug/kg	<2,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
2,6-Dinitrotoluene	ug/kg	<2,000 J	<40 [<40]	<40 J [<40 J]	<40 J [<40 J]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
2-Chloronaphthalene	ug/kg	<2,000 J	<40 [<40]	<40 J [<40 J]	<40 J [<40 J]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
2-Chlorophenol	ug/kg	<2,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
2-Methylnaphthalene	ug/kg	2,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
2-Methylphenol	ug/kg	<2,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
2-Nitroaniline	ug/kg	<2,000 J	<40 [<40]	<40 J [<40 J]	<40 J [<40 J]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
2-Nitrophenol	ug/kg	<2,000 J	<40 [<40]	<40 J [<40 J]	<40 J [<40 J]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
3&4-Methylphenol	ug/kg	<4,000 J	<80 [<80]	<80 [<80]	<70 [<70]	<70	<2,000 J	<70	<80	<70	<70	<80	<70	<80
3,3'-Dichlorobenzidine	ug/kg	<2,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Naphthalene	ug/kg	4,000 J ^b	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
3-Nitroaniline	ug/kg	<2,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
4-Bromophenyl phenyl ether	ug/kg	<2,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
4-Chloro-3-methylphenol	ug/kg	<2,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
4-Chloroaniline	ug/kg	<2,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
4-Chlorophenyl phenyl ether	ug/kg	<2,000 J	<40 J [<40 J]	<40 J [<40 J]	<40 J [<40 J]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
4-Nitroaniline	ug/kg	<2,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
4-Nitrophenol	ug/kg	<2,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Anthracene	ug/kg	15,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Acenaphthene	ug/kg	8,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Acenaphthylene	ug/kg	<2,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Acetophenone	ug/kg	<2,000 J	<40 J [<40 J]	<40 J [<40 J]	<40 J [<40 J]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Atrazine	ug/kg	<2,000 J	<40 [<40]	<40 J [<40 J]	<40 J [<40 J]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Benzaldehyde	ug/kg	<2,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Benzo(a)anthracene	ug/kg	169,000 J ^f	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Benzo(a)pyrene	ug/kg	199,000 J ^f	<40 [<40]	<40 J [<40 J]	<40 J [<40 J]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Benzo(b)fluoranthene	ug/kg	391,000 J ^f	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Benzo(g,h,i)perylene	ug/kg	68,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Benzo(k)fluoranthene	ug/kg	411,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<2,000 J	<40 [<40]	<40 J [<40 J]	<40 J [<40 J]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
bis(2-Chloroethoxy)methane	ug/kg	<2,000 J	<40 J [<40 J]	<40 J [<40 J]	<40 J [<40 J]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
bis(2-Chloroethyl)ether	ug/kg	<2,000 J	<40 J [<40 J]	<40 J [<40 J]	<40 J [<40 J]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<4,000 J	<80 [<80]	100 J [<80 J]	<70 J [<70 J]	<70	<2,000 J	<70	<80 B	<70	<100 B	<210 B	<180 B	<80
Butyl benzylphthalate (BBP)	ug/kg	<2,000 J	<40 [<40]	<40 J [<40 J]	<40 J [<40 J]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Caprolactam	ug/kg	<2,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Carbazole	ug/kg	19,000 J ^{ab}	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Chrysene	ug/kg	205,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Dibenz(a,h)anthracene	ug/kg	22,000 J ^f	<80 [<80]	<80 [<80]	<70 [<70]	<70	<2,000 J	<70	<80	<70	<70	<80	<70	<80
Dibenzofuran	ug/kg	2,000 J ^b	<40 [<40]	<40 J [<40 J]	<40 J [<40 J]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Diethyl phthalate	ug/kg	<4,000 J	<80 J [<80]	<80 J [<80 J]	<70 J [<70 J]	<70	<2,000 J	<70	<80	<70	<70	<80	<70	<80
Dimethyl phthalate	ug/kg	<2,000 J	<280 B [<300 B]	<40 J [<40 J]	<40 J [<40 J]	<90 B	<1,000 J	<60 B	<100 B	<70 B	<40	<40 B	<80 B	<70 B
Di-n-butylphthalate (DBP)	ug/kg	<4,000 J	<80 J [<80]	<80 J [<80 J]	<70 J [<70 J]	<70	<2,000 J	<70	<80	<70	<70	<80	<70	<80
Di-n-octyl phthalate (DnOP)	ug/kg	<4,000 J	<80 J [<80]	<80 J [<80 J]	<70 J [<70 J]	<70	<2,000 J	<70	<80	<70	<70	<80	<70	<80
Fluoranthene	ug/kg	220,000 J ^b	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Fluorene	ug/kg	5,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Hexachlorobenzene	ug/kg	<2,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Hexachlorobutadiene	ug/kg	<2,000 J	<40 [<40]	<40 J [<40 J]	<40 J [<40 J]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Hexachlorocyclopentadiene	ug/kg	<2,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Hexachloroethane	ug/kg	<2,000 J	<40 J [<40 J]	<40 J [<40 J]	<40 J [<40 J]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Indeno(1,2,3-cd)pyrene	ug/kg	68,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Isophorone	ug/kg	<2,000 J	<40 J [<40 J]	<40 J [<40 J]	<40 J [<40 J]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Nitrobenzene	ug/kg	<2,000 J	<40 J [<40 J]	<40 J [<40 J]	<40 J [<40 J]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
N-Nitrosodi-n-propylamine	ug/kg	<2,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
N-Nitrosodiphenylamine	ug/kg	<2,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Pentachlorophenol	ug/kg	<2,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Phenanthrene	ug/kg	79,000 J ^{ab}	<40 [<40]	<40 [<40]	<40 [<40]	<40	2,000 J	<40	<40	<40	<40	<40	<30	<40
Phenol	ug/kg	<2,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40
Pyrene	ug/kg	208,000 J	<40 [<40]	<40 [<40]	<40 [<40]	<40	<1,000 J	<40	<40	<40	<40	<40	<30	<40

TABLE 12 RFI Phase 2 Summary Report RACER Plant 2 Summary of Soil Sample Analytical Results														
Location ID: Sample Depth(ft): Date Collected:		VAP-A5.1-MT115* 4 - 5 05/10/12	VAP-A5.1-MT115 11 - 12 05/11/12	VAP-A5.1-MW162* 4 - 4.5 05/04/12	VAP-A5.1-MW162* 12 - 13 05/04/12	VAP-A5.2-NK132 1 - 2 05/15/12	VAP-A5.2-NK132 8 - 9 05/15/12	VAP-A5.2-NK132 14 - 15 05/16/12	VAP-A5.2-NK132 27 - 28 05/16/12	VAP-A5.2-NK132 37 - 38 05/16/12	VAP-A5.2-NK132 42 - 43 05/16/12	VAP-A5.2-NK132 47 - 48 05/16/12	VAP-A5.2-NK132 52 - 53 05/16/12	VAP-A5.2-NK132 57 - 58 05/16/12
	Units													
PCBs														
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	<3	<100	<3	<3	<3	<3	<3	<3	<3
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	<3	<100	<3	<3	<3	<3	<3	<3	<3
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	<3	<100	<3	<3	<3	<3	<3	<3	<3
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	<3	400 Q	<3	<3	<3	<3	<3	<3	<3
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	<3	<100	<3	<3	<3	<3	<3	<3	<3
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	<3	<100	<3	<3	<3	<3	<3	<3	<3
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	<3	<100	<3	<3	<3	<3	<3	<3	<3
Total PCBs	ug/kg	NA	NA	NA	NA	ND	400	ND	ND	ND	ND	ND	ND	ND
Inorganics														
Antimony	mg/kg	<0.20	<0.20 [<0.2]	<0.20 [<0.21]	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Arsenic	mg/kg	1.14 J	1.09 [1.71]	0.88 [1.56]	1.00 [0.84]	0.96	1.19	1.19	1.45	3.49	4.11	3.06	1.65	3.94
Barium	mg/kg	30.3	27.4 [28.7]	35.5 [48.9]	33.8 [28.3]	6.38	3.63	28.8	27.4	31.3	42.9	8.51	4.61	26.4
Beryllium	mg/kg	<0.20	<0.20 [<0.2]	0.23 [0.22]	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.20	<0.20	0.21	<0.20	<0.20	0.25
Boron	mg/kg	<4.0	<4.0 [<4]	<4.0 [<4.2]	<4.1 [<4.1]	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Cadmium	mg/kg	0.33 J	0.10 [0.11]	0.22 [0.24]	0.11 [<0.1]	<0.10	<0.10	<0.10	<0.10	0.13	0.16	0.11	<0.10	<0.10
Chromium	mg/kg	2.18	3.27 [3.34]	2.60 [2.75]	3.66 [2.68]	1.21	0.90	2.88	4.05	3.34	4.74	3.14	1.04	3.24
Cobalt	mg/kg	0.90	3.80 [2.5]	2.06 [2.37]	2.76 [2.23]	1.05	1.13	2.38	2.55	3.53	5.47	1.22	0.97	4.81
Copper	mg/kg	5.92	5.60 [7.07]	8.24 [8.05]	8.68 [7.08]	3.74	4.47	9.33	7.99	10.2	12.5	3.99	2.67	11.6
Lead	mg/kg	32.9 J ¹	4.28 [3.94]	10.3 [30.9]	4.16 [3.64]	2.23	3.98	4.42	3.71	4.81	6.45	2.85	2.31	6.54
Manganese	mg/kg	38.1	299 [251]	189 [205]	234 [210]	82.7	106	220	226	255	378	126	102	436
Mercury	mg/kg	0.0472	0.0134 [0.0141]	0.0289 [0.0392]	0.0104 [0.0091]	<0.0051	<0.0054	0.0107	0.0095	0.0097	0.0118	<0.0060	<0.0051	0.0180
Nickel	mg/kg	1.71	7.57 [7.56]	3.87 [4.74]	8.11 [7.28]	3.30	3.61	7.68	8.29	11.0	16.2	4.14	3.37	12.5
Selenium	mg/kg	<0.20	0.26 [<0.2]	0.29 [<0.21]	<0.20 [<0.2]	0.22	<0.20	<0.20	<0.20	0.28	0.25	<0.20	<0.20	0.35
Silver	mg/kg	<0.10	<0.10 [<0.1]	<0.10 [<0.1]	<0.10 [<0.1]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Thallium	mg/kg	<0.20	<0.20 [<0.2]	<0.20 [<0.21]	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	<0.20	<0.20	<0.20
Vanadium	mg/kg	3.90	4.99 [9.12]	6.92 [7.54]	4.90 [4.01]	2.81	1.88	4.85	4.94	5.23	7.21	1.71	1.18	6.07
Zinc	mg/kg	11.6 J	11.1 [10.3]	16.5 [27.6]	12.1 [9.86]	6.64	9.57	12.3	11.4	20.4	23.4	18.1	22.8	17.3
Miscellaneous														
Total solids	%	86	84 [83]	87 [84]	91 [90]	95	92	89	88	90	90	83	98	81

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.2-NU137* 0 - 2 04/30/12	VAP-A5.2-NU137* 5 - 6 04/30/12	VAP-A5.2-NU137* 10 - 11 04/30/12	VAP-A5.2-NU137* 15 - 16 04/30/12	VAP-A5.2-NU137* 20 - 21 04/30/12	VAP-A5.2-NU137* 23 - 24 04/30/12	VAP-A5.2-NU137* 29 - 30 04/30/12	VAP-A5.2-NU137* 34 - 35 05/01/12	VAP-A5.2-NU137* 39 - 40 05/01/12	VAP-A5.2-NU137* 44 - 45 05/01/12	VAP-A5.2-NU137* 48 - 49 05/01/12	VAP-A5.2-NU137* 54 - 55 05/01/12	VAP-A5.2-NU137* 57 - 58 05/01/12
	Units													
Volatile Organics														
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
1,2-Dichlorobenzene	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
1,4-Dichlorobenzene	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
2-Hexanone	ug/kg	<780	<770	<730	<740	<780	<760	<760	<610	<630	<670	<500 J	<580	<720
Acetone	ug/kg	<2,000	<1,900	<1,800	<1,900	<2,000	<1,900	<1,900	<610	<630	<670	<500 J	<580	<1,800
Bromodichloromethane	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
Bromoform	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	<60	<60	<70	<50 J	<60	NA
Carbon disulfide	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
Carbon tetrachloride	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
Chlorobenzene	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
Chloroform (Trichloromethane)	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
Chloromethane (Methyl chloride)	ug/kg	<200	<190	<180	<190	<200	<190	<190	<60	<60	<70	<50 J	<60	<180
cis-1,3-Dichloropropene	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	<60	<60	<70	<50 J	<60	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	<610	<630	<670	<500 J	<580	NA
Methylene chloride	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
Styrene	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
trans-1,3-Dichloropropene	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	<60	<60	<70	<50 J	<60	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
1,4-Dioxane	ug/kg	<780	<770	<730	<740	<780	<760	<760	<760	<700	<720	<730	<770	<720
1,1,1-Trichloroethane	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
1,1,2,2-Tetrachloroethane	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
1,1,2-Trichloroethane	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
1,1-Dichloroethane	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
1,1-Dichloroethene	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
1,2-Dichloroethane	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
cis-1,2-Dichloroethene	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
trans-1,2-Dichloroethene	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
Trichloroethene	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
Tetrachloroethene	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
Vinyl chloride	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
Chloroethane	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
Benzene	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
Ethylbenzene	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
Toluene	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
o-Xylene	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
m&p-Xylene	ug/kg	<160	<150	<150	<150	<160	<150	<150	<100	<100	<100	<100 J	<100	<140
Xylene (total)	ug/kg	<238	<227	<223	<224	<238	<226	<226	NA	NA	NA	NA	NA	<212
Methyl tert butyl ether (MTBE)	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<780	<770	<730	<740	<780	<760	<760	<610	<630	<670	<500 J	<580	<720
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<780	<770	<730	<740	<780	<760	<760	<610	<630	<670	<500 J	<580	<720
1,2,4-Trichlorobenzene	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
1,2,4-Trimethylbenzene	ug/kg	<78	<77	<73	<74	<78	<76	<76	<76	<70	<72	<73	<77	<72
1,3,5-Trimethylbenzene	ug/kg	<78	<77	<73	<74	<78	<76	<76	<76	<70	<72	<73	<77	<72
1,2-Dichloropropane	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
1,3-Dichlorobenzene	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
Cyclohexane	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
Methyl cyclohexane	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
Dibromochloromethane	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
Isopropyl benzene	ug/kg	<78	<77	<73	<74	<78	<76	<76	<60	<60	<70	<50 J	<60	<72
Naphthalene	ug/kg	<78	<77	<73	<74	<78	<76	<76	<76	<70	<72	<73	<77	<72

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.2-NU137* 0 - 2 04/30/12	VAP-A5.2-NU137* 5 - 6 04/30/12	VAP-A5.2-NU137* 10 - 11 04/30/12	VAP-A5.2-NU137* 15 - 16 04/30/12	VAP-A5.2-NU137* 20 - 21 04/30/12	VAP-A5.2-NU137* 23 - 24 04/30/12	VAP-A5.2-NU137* 29 - 30 04/30/12	VAP-A5.2-NU137* 34 - 35 05/01/12	VAP-A5.2-NU137* 39 - 40 05/01/12	VAP-A5.2-NU137* 44 - 45 05/01/12	VAP-A5.2-NU137* 48 - 49 05/01/12	VAP-A5.2-NU137* 54 - 55 05/01/12	VAP-A5.2-NU137* 57 - 58 05/01/12
	Units													
Semivolatile Organics														
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40	<40	<40	<40	<40
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2,4-Dichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2,4-Dimethylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2,4-Dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2-Chloronaphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2-Chlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2-Methylnaphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2-Methylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2-Nitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
3&4-Methylphenol	ug/kg	<70	<80	<70	<70	<70	<70	<70	<70	<70	<80	<90	<70	<70
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Naphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
3-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
4-Chloroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
4-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
4-Nitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Anthracene	ug/kg	100	60	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Acenaphthene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Acenaphthylene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Acetophenone	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Atrazine	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Benzaldehyde	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40	<40	<40	<40 J
Benzo(a)anthracene	ug/kg	320	160	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Benzo(a)pyrene	ug/kg	340	160	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Benzo(b)fluoranthene	ug/kg	690 J	290 J	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Benzo(g,h,i)perylene	ug/kg	80	70	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Benzo(k)fluoranthene	ug/kg	700 J	300 J	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
bis(2-Chloroethyl)ether	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40	<40	<40	<40	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	1,560	<160 B	<70	<70	<70	<70	<70	<70	<120 B	<80	<90	<80 B	<80 B
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Caprolactam	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Carbazole	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Chrysene	ug/kg	350	190	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Dibenz(a,h)anthracene	ug/kg	<70	<80	<70	<70	<70	<70	<70	<70	<70	<80	<90	<70	<70
Dibenzofuran	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Diethyl phthalate	ug/kg	<70	<80	<70	<70	<70	<70	<70	<70	<70	<80	<90	<70	<70
Dimethyl phthalate	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Di-n-butylphthalate (DBP)	ug/kg	<70	<80	<70	<70	<70	<70	<70	<70	<70	<80	<90	<70	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<80	<80	<70	<70	<70	<70	<70	<70	<70	<80	<90	<70	<70
Fluoranthene	ug/kg	700	370	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Fluorene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Hexachlorobenzene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Hexachlorobutadiene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Hexachlorocyclopentadiene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Hexachloroethane	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Indeno(1,2,3-cd)pyrene	ug/kg	80	60	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Isophorone	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Nitrobenzene	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40	<40	<40	<40	<40
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
N-Nitrosodiphenylamine	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Pentachlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Phenanthrene	ug/kg	240	230	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Phenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Pyrene	ug/kg	590	300	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	VAP-A5.2-NU137*	VAP-A5.2-NU137*	VAP-A5.2-NU137*	VAP-A5.2-NU137*	VAP-A5.2-NU137*	VAP-A5.2-NU137*	VAP-A5.2-NU137*	VAP-A5.2-NU137*	VAP-A5.2-NU137*	VAP-A5.2-NU137*	VAP-A5.2-NU137*	VAP-A5.2-NU137*	VAP-A5.2-NU137*
		0 - 2	5 - 6	10 - 11	15 - 16	20 - 21	23 - 24	29 - 30	34 - 35	39 - 40	44 - 45	48 - 49	54 - 55	57 - 58
		04/30/12	04/30/12	04/30/12	04/30/12	04/30/12	04/30/12	04/30/12	05/01/12	05/01/12	05/01/12	05/01/12	05/01/12	05/01/12
PCBs														
Aroclor-1016 (PCB-1016)	ug/kg	<10	<5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1221 (PCB-1221)	ug/kg	<10	<5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1232 (PCB-1232)	ug/kg	<10	<5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1242 (PCB-1242)	ug/kg	<10	<5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1248 (PCB-1248)	ug/kg	<10	<5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1254 (PCB-1254)	ug/kg	100	<5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Aroclor-1260 (PCB-1260)	ug/kg	<10	<5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Total PCBs	ug/kg	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics														
Antimony	mg/kg	<0.20	<0.21	<0.20	<0.20	<0.20	<0.21	<0.20	<0.21	<0.21	<0.22	<0.23	<0.20	<0.20
Arsenic	mg/kg	0.80	0.85	1.08	2.24	2.53	2.21	3.27	3.12	2.94	3.21	23.3 ^{abi}	2.85	5.25
Barium	mg/kg	15.5	21.3	22.1	23.2	19.3	22.1	20.3	27.8	36.1	37.9	91.6 ⁱ	6.31	10.0
Beryllium	mg/kg	<0.20	<0.21	<0.20	<0.20	<0.20	<0.21	<0.20	<0.21	<0.21	<0.22	0.43	<0.20	<0.20
Boron	mg/kg	<4.1	<4.3	<4.1	<4.1	<4.1	<4.2	<4.1	<4.2	<4.2	<4.4	<4.7	<4	<4
Cadmium	mg/kg	0.16	0.12	<0.10	<0.10	<0.10	<0.10	0.12	0.14	0.15	0.16	0.19	<0.10	0.14
Chromium	mg/kg	3.43	3.93	2.32	2.20	2.29	2.42	3.07	2.64	2.98	3.48	9.84	1.30	1.56
Cobalt	mg/kg	1.98	1.89	2.20	2.33	1.92	2.21	3.72	3.60	4.42	5.74	9.19 ^{abi}	1.33	2.15
Copper	mg/kg	10.6	8.37	8.66	7.46	6.20	7.19	8.87	9.38	11.5	13.3	21.2	2.84	5.69
Lead	mg/kg	14.3	7.94	4.10	3.94	3.30	3.47	4.38	4.80	5.73	6.13	10.0	2.00	3.88
Manganese	mg/kg	202	295	247	234	214	218	313	293	306	309	373	133	231
Mercury	mg/kg	0.0149	0.0120	0.0073	0.0064	<0.0055	0.0075	0.0084	0.0084	0.0118	0.0112	0.0178	<0.0052	0.0065
Nickel	mg/kg	6.42	6.60	6.31	6.20	5.47	5.76	11.2	10.3	12.3	14.2	27.2 ⁱ	4.29	6.80
Selenium	mg/kg	0.20	<0.21	0.28	0.26	0.22	<0.21	0.29	0.31	0.24	0.29	<0.23	<0.20	<0.20
Silver	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11	<0.11	<0.10	<0.10
Thallium	mg/kg	<0.20	<0.21	<0.20	<0.20	<0.20	<0.21	<0.20	<0.21	<0.21	<0.22	0.29	<0.20	<0.20
Vanadium	mg/kg	2.09	3.49	3.65	3.28	2.65	2.98	3.69	3.87	4.11	4.69	13.2	1.68	2.17
Zinc	mg/kg	26.8	15.0	12.1	10.2	9.70	9.82	16.7	17.8	19.2	22.8	32.8	13.6	17.3
Miscellaneous														
Total solids	%	91	86	91	91	91	90	90	91	90	87	78	94	92

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.2-NV98* 1 - 2 05/03/12	VAP-A5.2-NV98* 11 - 12 05/03/12	VAP-A5.2-NV119* 1 - 2 05/02/12	VAP-A5.2-NV119* 6 - 7 05/02/12	VAP-A5.2-NV119* 8 - 9 05/02/12	VAP-A5.2-NV119* 14 - 15 05/03/12	VAP-A5.2-NV119* 18 - 19 05/03/12	VAP-A5.2-NV119* 24 - 25 05/03/12	VAP-A5.2-NV119* 28 - 29 05/03/12	VAP-A5.2-NV119 33 - 34 05/14/12	VAP-A5.2-NV119 38 - 39 05/14/12	VAP-A5.2-NV119 43 - 44 05/15/12	VAP-A5.2-NV119 48 - 49 05/15/12
	Units													
Volatile Organics														
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
1,2-Dichlorobenzene	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
1,4-Dichlorobenzene	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
2-Hexanone	ug/kg	<740	<770	<700	<570	<610	<710	<510 J	<720	<740	<790	<720	<770	<750
Acetone	ug/kg	<1,800	<1,900	<1,800	<570	<610	<1,800	<510 J	<1,800	<1,900	<2,000 BJ	<2,100 BJ	<2,800 BJ	<2,600 BJ
Bromodichloromethane	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
Bromoform	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	<60	<60	NA	<50 J	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
Carbon tetrachloride	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
Chlorobenzene	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
Chloroform (Trichloromethane)	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
Chloromethane (Methyl chloride)	ug/kg	<180	<190	<180	<60	<60	<180	<50 J	<180	<190	<200	<180	<190	<190
cis-1,3-Dichloropropene	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	<60	<60	NA	<50 J	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	<570	<610	NA	<510 J	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
Styrene	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
trans-1,3-Dichloropropene	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	<60	<60	NA	<50 J	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77 J	<75 J
1,4-Dioxane	ug/kg	<740	<770	<700	<730	<810 [<700]	<710	<660 [<710]	<720	<740	<790	<720	<770	<750
1,1,1-Trichloroethane	ug/kg	<74	290	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
1,1,2,2-Tetrachloroethane	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
1,1,2-Trichloroethane	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
1,1-Dichloroethane	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	200	<74	<79	<72	<77	<75
1,1-Dichloroethene	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	260 ^a	<74	<79	<72	<77	<75
1,2-Dichloroethane	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
cis-1,2-Dichloroethene	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
trans-1,2-Dichloroethene	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
Trichloroethene	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
Tetrachloroethene	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
Vinyl chloride	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
Chloroethane	ug/kg	<74	<77	<70	170	140	<71	<50 J	540 J	400 J	<79	<72	<77	<75
Benzene	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
Ethylbenzene	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
Toluene	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
o-Xylene	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
m&p-Xylene	ug/kg	<150	<150	<140	<100	<100	<140	<100 J	<140	<150	<160	<140	<150	<150
Xylene (total)	ug/kg	<224	<227	<210	NA	NA	<211	NA	<212	<224	<239	<212	<227	<225
Methyl tert butyl ether (MTBE)	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<740	<770	<700	<570	<610	<710	<510 J	<720	<740	<790	<720	<770	<750
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<740	<770	<700	<570	<610	<710	<510 J	<720	<740	<790	<720	<770	<750
1,2,4-Trichlorobenzene	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
1,2,4-Trimethylbenzene	ug/kg	<74	<77	<70	<73	22 J [<70]	<71	75 [64 J]	<72	<74	<79	<72	<77	<75
1,3,5-Trimethylbenzene	ug/kg	<74	<77	<70	<73	<81 [29 J]	<71	<66 [<71]	<72	<74	<79	<72	<77	<75
1,2-Dichloropropane	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
1,3-Dichlorobenzene	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
Cyclohexane	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
Methyl cyclohexane	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
Dibromochloromethane	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
Isopropyl benzene	ug/kg	<74	<77	<70	<60	<60	<71	<50 J	<72	<74	<79	<72	<77	<75
Naphthalene	ug/kg	<74	<77	<70	<73	<81 [<70]	<71	44 J [32 J]	<72	<74	<79	<72	<77	<75

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.2-NV98* 1 - 2 05/03/12	VAP-A5.2-NV98* 11 - 12 05/03/12	VAP-A5.2-NV119* 1 - 2 05/02/12	VAP-A5.2-NV119* 6 - 7 05/02/12	VAP-A5.2-NV119* 8 - 9 05/02/12	VAP-A5.2-NV119* 14 - 15 05/03/12	VAP-A5.2-NV119* 18 - 19 05/03/12	VAP-A5.2-NV119* 24 - 25 05/03/12	VAP-A5.2-NV119* 28 - 29 05/03/12	VAP-A5.2-NV119 33 - 34 05/14/12	VAP-A5.2-NV119 38 - 39 05/14/12	VAP-A5.2-NV119 43 - 44 05/15/12	VAP-A5.2-NV119 48 - 49 05/15/12
	Units													
Semivolatile Organics														
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	R	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40 J	<40	<300 J	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
2,4,6-Trichlorophenol	ug/kg	<40	<40	R	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
2,4-Dichlorophenol	ug/kg	<40	<40	R	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
2,4,5-Trichlorophenol	ug/kg	<40	<40	R	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
2,4-Dimethylphenol	ug/kg	<40	<40	R	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
2,4-Dinitrophenol	ug/kg	<40	<40	R	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
2,4-Dinitrotoluene	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
2,6-Dinitrotoluene	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
2-Chloronaphthalene	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
2-Chlorophenol	ug/kg	<40	<40	R	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
2-Methylnaphthalene	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
2-Methylphenol	ug/kg	<40	<40	R	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
2-Nitroaniline	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
2-Nitrophenol	ug/kg	<40 J	<40	R	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
3&4-Methylphenol	ug/kg	<70	<80	R	<2,000 J	<800 J	<70	<600	<70	<70	<70	<70	<70	<70
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
Naphthalene	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
3-Nitroaniline	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
4-Chloro-3-methylphenol	ug/kg	<40	<40	R	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
4-Chloroaniline	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
4-Nitroaniline	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
4-Nitrophenol	ug/kg	<40	<40	R	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
Anthracene	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	800	<40	<40	<30	<30	<30	<30
Acenaphthene	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
Acenaphthylene	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
Acetophenone	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30 J	<30 J	<30	<30
Atrazine	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
Benzaldehyde	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
Benzo(a)anthracene	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
Benzo(a)pyrene	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300 J	<40	<40	<30	<30	<30	<30
Benzo(b)fluoranthene	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300 J	<40	<40	<30	<30	<30	<30
Benzo(g,h,i)perylene	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300 J	<40	<40	<30	<30	<30	<30
Benzo(k)fluoranthene	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300 J	<40	<40	<30	<30	<30	<30
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30 J	<30 J	<30	<30
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<300 J	<1,000 J	<400 J	<40	<300	<40	<40	<30 J	<30 J	<30	<30
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70	<80	<600	<2,000 J	<800 J	110	<600	230	<70	<70 J	<70 J	<70	<70
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
Caprolactam	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
Carbazole	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
Chrysene	ug/kg	<40	<40	<300	1,000 JZ	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
Dibenz(a,h)anthracene	ug/kg	<70	<80	<600	<2,000 J	<800 J	<70	<600 J	<70	<70	<70	<70	<70	<70
Dibenzofuran	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
Diethyl phthalate	ug/kg	<70	<80	<600	<2,000 J	<800 J	<70	<600	<70	<70	<70	<70	<70	<70
Dimethyl phthalate	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<240 B	<330 B	<200 B	<160 B
Di-n-butylphthalate (DBP)	ug/kg	<70	<80	<600	<2,000 J	<800 J	<70	<600	<70	<70	<70	<70	<70	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<70	<80	<600	<2,000 J	<800 J	<70	<600 J	<70	<70	<70	<70	<70	<70
Fluoranthene	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	400	<40	<40	<30	<30	<30	<30
Fluorene	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	4,900	<40	<40	<30	<30	<30	<30
Hexachlorobenzene	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
Hexachlorobutadiene	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
Hexachlorocyclopentadiene	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
Hexachloroethane	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30 J	<30 J	<30	<30
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300 J	<40	<40	<30	<30	<30	<30
Isophorone	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30 J	<30 J	<30	<30
Nitrobenzene	ug/kg	<40 J	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30 J	<30 J	<30	<30
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
N-Nitrosodiphenylamine	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
Pentachlorophenol	ug/kg	<40	<40	R	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
Phenanthrene	ug/kg	<40	<40	<300	<1,000 J	500 J	<40	4,600 ^b	40	<40	<30	<30	<30	<30
Phenol	ug/kg	<40	<40	R	<1,000 J	<400 J	<40	<300	<40	<40	<30	<30	<30	<30
Pyrene	ug/kg	<40	<40	<300	<1,000 J	<400 J	<40	600	<40	<40	<30	<30	<30	<30

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.2-NV98* 1 - 2 05/03/12	VAP-A5.2-NV98* 11 - 12 05/03/12	VAP-A5.2-NV119* 1 - 2 05/02/12	VAP-A5.2-NV119* 6 - 7 05/02/12	VAP-A5.2-NV119* 8 - 9 05/02/12	VAP-A5.2-NV119* 14 - 15 05/03/12	VAP-A5.2-NV119* 18 - 19 05/03/12	VAP-A5.2-NV119* 24 - 25 05/03/12	VAP-A5.2-NV119* 28 - 29 05/03/12	VAP-A5.2-NV119 33 - 34 05/14/12	VAP-A5.2-NV119 38 - 39 05/14/12	VAP-A5.2-NV119 43 - 44 05/15/12	VAP-A5.2-NV119 48 - 49 05/15/12
	Units													
PCBs														
Aroclor-1016 (PCB-1016)	ug/kg	<3	<3	<30	<3,000 J	<300 J	<3	<250 J	<3	<3	<3	<3	<3	<3
Aroclor-1221 (PCB-1221)	ug/kg	<3	<3	<30	<3,000 J	<300 J	<3	<250 J	<3	<3	<3	<3	<3	<3
Aroclor-1232 (PCB-1232)	ug/kg	<3	<3	<30	<3,000 J	<300 J	<3	<250 J	<3	<3	<3	<3	<3	<3
Aroclor-1242 (PCB-1242)	ug/kg	<3	<3	<30	39,000 J ^f	5,400 J	<5	4,500 J	<20	<6	<3	<3	<3	<3
Aroclor-1248 (PCB-1248)	ug/kg	<3	<3	<30	<3,000 J	<300 J	<3	<250 J	<3	<3	<3	<3	<3	<3
Aroclor-1254 (PCB-1254)	ug/kg	<3	<3	600 Y	<3,000 J	<300 J	<3	<250 J	<3	<3	<3	<3	<3	<3
Aroclor-1260 (PCB-1260)	ug/kg	<3	<3	<30	<3,000 J	<300 J	<3	<250 J	<3	<3	<3	<3	<3	<3
Total PCBs	ug/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics														
Antimony	mg/kg	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.21	<0.20	<0.20	<0.20	<0.20
Arsenic	mg/kg	0.78	0.57	1.78	2.43	1.25	1.94	0.31	2.29	2.95	2.38	2.59	3.53	3.27
Barium	mg/kg	9.48	6.18	29.3	22.7	14.3	32.3	8.40	19.6	19.2	4.09	3.64	4.55	3.86
Beryllium	mg/kg	<0.2	<0.21	<0.20	0.20	<0.20	0.20	<0.2	<0.21	<0.21	<0.20	<0.20	<0.20	<0.20
Boron	mg/kg	<4	<4.2	4.76	<2.0	<2.0	<4.1	<4.1	<4.2	<4.2	<4.0	<4.0	<4.0	<4.0
Cadmium	mg/kg	<0.10	<0.10	0.11	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chromium	mg/kg	1.36	1.22	6.57	2.47	1.79	7.70	1.26	3.30	3.10	0.75	0.92	0.61	0.65
Cobalt	mg/kg	3.31	1.82	1.94	3.97	1.36	4.37	1.22	2.79	4.23	1.05	1.45	1.78	1.47
Copper	mg/kg	1.54	1.83	7.35	15.6	4.51	9.90	4.42	8.99	8.38	2.45	3.24	3.59	2.36
Lead	mg/kg	2.87	1.35	17.3	7.03	3.60	3.62	1.85	4.28	3.65	2.11	2.34	2.58	2.16
Manganese	mg/kg	149	131	121	97.3	136	231	98.1	263	218	143	171	135	145
Mercury	mg/kg	0.0063	<0.0056	0.0190	<0.0056	<0.0056	0.0138	<0.0057	0.0099	0.0120	<0.0051	<0.0051	<0.0050 J	<0.0051 J
Nickel	mg/kg	3.26	3.58	9.17	7.06	3.64	12.6	2.70	7.99	7.82	4.13	4.93	5.03	4.24
Selenium	mg/kg	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	0.25	0.22	<0.20	<0.20	<0.20	<0.20
Silver	mg/kg	0.22	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Thallium	mg/kg	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.21	<0.20	<0.20	<0.20	<0.20
Vanadium	mg/kg	2.53	2.11	4.58	11.2	2.99	9.40	2.45	7.33	4.95	1.24	1.23	1.49	1.23
Zinc	mg/kg	4.57	4.94	14.4	8.02	5.37	17.4	5.48	12.4	19.8	13.6	3.99	5.65	11.0
Miscellaneous														
Total solids	%	93	88	89	90	88	90	88	91	90	96	98	98	99

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.2-NV119 53 - 54 05/15/12	VAP-A5.2-NV119 57.5 - 58.5 05/15/12	VAP-A5.2-NV119 62 - 63 05/15/12	VAP-A5.2-OE129* 7 - 8 05/01/12	VAP-A5.2-OE129* 12 - 13 05/01/12	VAP-A5.2-OE129* 17 - 18 05/02/12	VAP-A5.2-OE129* 22 - 23 05/02/12	VAP-A5.2-OE129* 29 - 30 05/02/12	VAP-A5.2-OE129* 33 - 34 05/02/12	VAP-A5.2-OE129* 36 - 36.5 05/02/12	VAP-A5.2-OE129* 41 - 42 05/02/12	VAP-A5.2-OE129* 45 - 46 05/02/12
	Units												
Volatile Organics													
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
1,2-Dichlorobenzene	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
1,4-Dichlorobenzene	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
2-Hexanone	ug/kg	<750	<760	<710 [<810]	<770	<810 [<760]	<850 [<730]	<740	<780 [<790]	<600	<670	<840	<710
Acetone	ug/kg	<2,700 BJ	<1,900 BJ	<3,000 BJ [<3,200 BJ]	<1,900	<2,000 [<1,900]	<2,100 [<1,800]	<1,900	<1,900 [<2,000]	<1,500	<1,700	<2,100	<1,800
Bromodichloromethane	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
Bromoform	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	<60	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
Carbon tetrachloride	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
Chlorobenzene	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
Chloroform (Trichloromethane)	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
Chloromethane (Methyl chloride)	ug/kg	<190	<190	<180 [<200]	<190	<200 [<190]	<210 [<180]	<190	<190 [<200]	<150	<170	<210	<180
cis-1,3-Dichloropropene	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	<60	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	<640	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
Styrene	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
trans-1,3-Dichloropropene	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	<60	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<75 J	<76 J	<71 J [<81 J]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
1,4-Dioxane	ug/kg	<750	<760	<710 [860 J]	<770	<810 [<760]	<850 [<730]	<740	<780 [<790]	820	840	<840	<710
1,1,1-Trichloroethane	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
1,1,2,2-Tetrachloroethane	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
1,1,2-Trichloroethane	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
1,1-Dichloroethane	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
1,1-Dichloroethene	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
1,2-Dichloroethane	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
cis-1,2-Dichloroethene	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
trans-1,2-Dichloroethene	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
Trichloroethene	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
Tetrachloroethene	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
Vinyl chloride	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
Chloroethane	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	46 J	<78 [<79]	<60	<67	<84	440 J
Benzene	ug/kg	<75	<76	<71 [<81]	<77	<81 [17 J]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
Ethylbenzene	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
Toluene	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
o-Xylene	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
m&p-Xylene	ug/kg	<150	<150	<140 [<160]	<150	<160 [<150]	<170 [<150]	<150	<160 [<160]	<120	<130	<170	<140
Xylene (total)	ug/kg	<225	<226	<211 [<241]	<227	<241 [<226]	<255 [<223]	<224	<238 [<239]	<180	<197	<254	<211
Methyl tert butyl ether (MTBE)	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<750	<760	<710 [<810]	<770	<810 [<760]	<850 [<730]	<740	<780 [<790]	<600	<670	<840	<710
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<750	<760	<710 [<810]	<770	<810 [<760]	<850 [<730]	<740	<780 [<790]	<600	<670	<840	<710
1,2,4-Trichlorobenzene	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
1,2,4-Trimethylbenzene	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
1,3,5-Trimethylbenzene	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
1,2-Dichloropropane	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
1,3-Dichlorobenzene	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
Cyclohexane	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
Methyl cyclohexane	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
Dibromochloromethane	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
Isopropyl benzene	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71
Naphthalene	ug/kg	<75	<76	<71 [<81]	<77	<81 [<76]	<85 [<73]	<74	<78 [<79]	<60	<67	<84	<71

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.2-NV119 53 - 54 05/15/12	VAP-A5.2-NV119 57.5 - 58.5 05/15/12	VAP-A5.2-NV119 62 - 63 05/15/12	VAP-A5.2-OE129* 7 - 8 05/01/12	VAP-A5.2-OE129* 12 - 13 05/01/12	VAP-A5.2-OE129* 17 - 18 05/02/12	VAP-A5.2-OE129* 22 - 23 05/02/12	VAP-A5.2-OE129* 29 - 30 05/02/12	VAP-A5.2-OE129* 33 - 34 05/02/12	VAP-A5.2-OE129* 36 - 36.5 05/02/12	VAP-A5.2-OE129* 41 - 42 05/02/12	VAP-A5.2-OE129* 45 - 46 05/02/12
	Units												
Semivolatile Organics													
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 J [<40 J]	<40 J	<40 J [<40 J]	<40 J	<40 J	<40 J	<30 J
2,4,6-Trichlorophenol	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
2,4-Dichlorophenol	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
2,4,5-Trichlorophenol	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
2,4-Dimethylphenol	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
2,4-Dinitrophenol	ug/kg	<30	<40	<40 [<70 J]	<40	<40 [<40]	<40 J [<40]	<40	<40 [<40]	<40	<40	<40	<30
2,4-Dinitrotoluene	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
2,6-Dinitrotoluene	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
2-Chloronaphthalene	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
2-Chlorophenol	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
2-Methylnaphthalene	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
2-Methylphenol	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
2-Nitroaniline	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
2-Nitrophenol	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
3&4-Methylphenol	ug/kg	<70	<80	<70 [<100]	<80	<80 [<80]	<80 [<70]	<70	<80 [<80]	<80	<80	<80	<70
3,3'-Dichlorobenzidine	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 J [<40]	<40	<40 [<40]	<40	<40	<40	<30
Naphthalene	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
3-Nitroaniline	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
4-Bromophenyl phenyl ether	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
4-Chloro-3-methylphenol	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
4-Chloroaniline	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
4-Chlorophenyl phenyl ether	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
4-Nitroaniline	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
4-Nitrophenol	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Anthracene	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Acenaphthene	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Acenaphthylene	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Acetophenone	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Atrazine	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Benzaldehyde	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Benzo(a)anthracene	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Benzo(a)pyrene	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Benzo(b)fluoranthene	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Benzo(g,h,i)perylene	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Benzo(k)fluoranthene	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Biphenyl (1,1-Biphenyl)	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
bis(2-Chloroethoxy)methane	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
bis(2-Chloroethyl)ether	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 J [<40 J]	<40 J	<40 J [<40 J]	<40 J	<40 J	<40 J	<30 J
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70	<80	<70 [<100]	180	90 [100]	<80 [100]	<70	<80 [<80]	<80	90	90	140
Butyl benzylphthalate (BBP)	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Caprolactam	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Carbazole	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Chrysene	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Dibenz(a,h)anthracene	ug/kg	<70	<80	<70 [<100]	<80	<80 [<80]	<80 [<70]	<70	<80 [<80]	<80	<80	<80	<70
Dibenzofuran	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Diethyl phthalate	ug/kg	<70	<80	<70 [<100]	<80	<80 [<80]	<80 [<70]	<70	<80 [<80]	<80	<80	<80	<70
Dimethyl phthalate	ug/kg	<60 B	<90 B	<50 B [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Di-n-butylphthalate (DBP)	ug/kg	<70	<80	<70 [<100]	<80	<80 [<80]	<80 [<70]	<70	<80 [<80]	<80	<80	<80	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<70	<80	<70 [<100]	<80	<80 [<80]	<80 [<70]	<70	<80 [<80]	<80	<80	<80	<70
Fluoranthene	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Fluorene	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Hexachlorobenzene	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Hexachlorobutadiene	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Hexachlorocyclopentadiene	ug/kg	<30	<40	<40 [<70]	<40 J	<40 J [<40 J]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Hexachloroethane	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Indeno(1,2,3-cd)pyrene	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Isophorone	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Nitrobenzene	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
N-Nitrosodi-n-propylamine	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
N-Nitrosodiphenylamine	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Pentachlorophenol	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Phenanthrene	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Phenol	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30
Pyrene	ug/kg	<30	<40	<40 [<70]	<40	<40 [<40]	<40 [<40]	<40	<40 [<40]	<40	<40	<40	<30

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.2-NV119 53 - 54 05/15/12	VAP-A5.2-NV119 57.5 - 58.5 05/15/12	VAP-A5.2-NV119 62 - 63 05/15/12	VAP-A5.2-OE129* 7 - 8 05/01/12	VAP-A5.2-OE129* 12 - 13 05/01/12	VAP-A5.2-OE129* 17 - 18 05/02/12	VAP-A5.2-OE129* 22 - 23 05/02/12	VAP-A5.2-OE129* 29 - 30 05/02/12	VAP-A5.2-OE129* 33 - 34 05/02/12	VAP-A5.2-OE129* 36 - 36.5 05/02/12	VAP-A5.2-OE129* 41 - 42 05/02/12	VAP-A5.2-OE129* 45 - 46 05/02/12
Units													
PCBs													
Aroclor-1016 (PCB-1016)	ug/kg	<3	<3	<3 [<3]	<3	<8 [<30]	<3 [<3]	<3	<3 [<3]	<3	<3	<3	<3
Aroclor-1221 (PCB-1221)	ug/kg	<3	<3	<3 [<3]	<3	<8 [<30]	<3 [<3]	<3	<3 [<3]	<3	<3	<3	<3
Aroclor-1232 (PCB-1232)	ug/kg	<3	<3	<3 [<3]	<3	<8 [<30]	<3 [<3]	<3	<3 [<3]	<3	<3	<3	<3
Aroclor-1242 (PCB-1242)	ug/kg	<3	<3	<3 [<3]	<3	<8 [<30]	<3 [<3]	<3	<3 [<3]	<3	<3	<3	<3
Aroclor-1248 (PCB-1248)	ug/kg	<3	<3	<3 [<3]	<3	<8 [<30]	<3 [<3]	<3	<3 [<3]	<3	<3	<3	<3
Aroclor-1254 (PCB-1254)	ug/kg	<3	<3	<3 [<3]	<3	100 J [400 J]	<3 [<3]	<3	<3 [<3]	<3	<3	<3	<3
Aroclor-1260 (PCB-1260)	ug/kg	<3	<3	<3 [<3]	<3	<8 [<30]	<3 [<3]	<3	<3 [<3]	<3	<3	<3	<3
Total PCBs	ug/kg	ND	ND	ND [ND]	ND	100 J [400 J]	ND [ND]	ND	ND [ND]	ND	ND	ND	ND
Inorganics													
Antimony	mg/kg	<0.20	<0.20	<0.20 [<0.2]	<0.22	<0.21 [<0.21]	<0.20 [<0.2]	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.20
Arsenic	mg/kg	3.11	3.30	3.42 [2.01]	0.60	0.65 [0.66]	1.79 [1.61]	0.97	2.44 [1.91]	2.99	7.86 ^{abi}	3.86	1.85
Barium	mg/kg	4.76	20.4	6.79 [5.42]	8.72	17.0 [40.7]	37.3 [30.5]	18.4	21.6 [23.1]	15.3	13.6	54.3	5.42
Beryllium	mg/kg	<0.20	0.21	0.23 [<0.2]	<0.22	<0.21 [<0.21]	<0.20 [<0.2]	<0.20	<0.20 [<0.2]	<0.20	<0.20	0.27	<0.20
Boron	mg/kg	<4.0	<4.0	<4.0 [<4]	<4.5	<4.2 [<4.2]	<2.0 [<2]	<2.0	<2.0 [<2]	<2.0	2.19	<2.0	<2.0
Cadmium	mg/kg	<0.10	<0.10	<0.10 [<0.1]	<0.11	<0.10 [<0.1]	<0.10 [0.11]	<0.10	<0.10 [<0.1]	0.12	0.30	0.22	<0.10
Chromium	mg/kg	0.60	2.65	1.23 [1.26]	1.36	2.20 [2.74]	3.05 [2.82]	1.68	2.70 [2.63]	1.83	2.22	4.63	1.36
Cobalt	mg/kg	1.52	4.08	5.34 [3.3]	1.11	1.77 [1.59]	2.59 [2.55]	1.60	2.22 [2.64]	2.55	3.83	6.50	1.03
Copper	mg/kg	3.19	7.69	8.71 [5.68]	1.85	5.66 [6.05]	10.9 [10.5]	7.64	9.09 [9.97]	7.18	9.59	18.0	2.78
Lead	mg/kg	2.57	8.98	11.4 [7.13]	1.83	5.89 J [21.7 J]	4.95 [4.54]	3.49	4.55 [4.6]	4.16	5.60	9.01	1.90
Manganese	mg/kg	129	304	83.0 [82.7]	143	168 [123]	309 [283]	225	279 [296]	265	365	392	125
Mercury	mg/kg	<0.0051 J	0.0173 J	0.0402 J [0.0166 J]	<0.0059	0.0087 [0.0068]	0.0129 [0.0122]	0.0067	0.0110 [0.0118]	0.0101	0.0092	0.0160	<0.0052
Nickel	mg/kg	4.30	8.69	16.1 [9.55]	3.95	3.46 [6.09]	7.96 [8.14]	5.65	7.68 [8.44]	8.05	12.9	18.1	3.73
Selenium	mg/kg	<0.20	0.41	0.56 [0.48] ^{bi}	<0.22	<0.21 [<0.21]	0.27 [<0.2]	<0.20	0.44 [0.23] ^{bi}	0.20	0.50 ^{bi}	0.41	<0.20
Silver	mg/kg	<0.10	<0.10	<0.10 [<0.1]	<0.11	<0.10 [<0.1]	<0.10 [<0.1]	<0.10	<0.10 [<0.1]	<0.10	<0.10	<0.10	<0.10
Thallium	mg/kg	<0.20	<0.20	<0.20 [<0.2]	<0.22	<0.21 [<0.21]	<0.20 [<0.2]	<0.20	<0.20 [<0.2]	<0.20	0.21	0.26	<0.20
Vanadium	mg/kg	1.34	4.74	1.95 [1.68]	2.21	4.68 [5.11]	5.02 [4.67]	3.03	4.44 [4.62]	3.37	3.71	6.18	1.40
Zinc	mg/kg	8.20	20.9	6.40 [6.06]	3.11	8.00 [15.1]	10.8 [12.4]	10.7	10.3 [12.5]	18.5	38.7	27.8	5.83
Miscellaneous													
Total solids	%	97	87	90 [89]	84	87 [86]	88 [89]	92	85 [85]	88	86	85	97

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.2-OE129* 51 - 52 05/02/12	VAP-A5.2-OE129* 58 - 59 05/02/12	VAP-A5.3-OV159* 7 - 8 05/10/12	VAP-A5.3-OV159* 12 - 13 05/10/12	VAP-A5.3-OV159* 17 - 18 05/10/12	VAP-A5.3-OV159* 22 - 23 05/10/12	VAP-A5.3-OV159* 26 - 27 05/10/12	VAP-A5.3-OV159* 31 - 32 05/10/12	VAP-A5.3-OV159* 36 - 37 05/10/12	VAP-A5.3-OV159* 41 - 42 05/10/12	VAP-A5.3-OV159* 46 - 47 05/10/12	VAP-A5.5-NP194* 16 - 17 05/09/12	VAP-A5.5-NP194* 20 - 21 05/09/12
	Units													
Volatile Organics														
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
1,2-Dichlorobenzene	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
1,4-Dichlorobenzene	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
2-Hexanone	ug/kg	<740	<760	<790	<770	<700	<790	<740	<850	<730 [<730]	<680	<740	<700	<710
Acetone	ug/kg	<1,900	<1,900	<2,000	3,300 JB	2,700 JB	2,100 JB	2,400 JB	2,300 JB	1,800 JB [2,300 JB]	<1,700	<1,900	<1,800	2,100 B
Bromodichloromethane	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
Bromoform	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
Carbon tetrachloride	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
Chlorobenzene	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
Chloroform (Trichloromethane)	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
Chloromethane (Methyl chloride)	ug/kg	<190	<190	<200	<190	<170	<200	<180	<210	<180 [<180]	<170	<190	<180	<180
cis-1,3-Dichloropropene	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
Styrene	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
trans-1,3-Dichloropropene	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
1,4-Dioxane	ug/kg	<740	<760	<790	<770	<700	<790	<740	<850	<730 [<730]	<680	<740	<700	<710
1,1,1-Trichloroethane	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
1,1,2,2-Tetrachloroethane	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
1,1,2-Trichloroethane	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
1,1-Dichloroethane	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
1,1-Dichloroethene	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
1,2-Dichloroethane	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
cis-1,2-Dichloroethene	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
trans-1,2-Dichloroethene	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
Trichloroethene	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
Tetrachloroethene	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
Vinyl chloride	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
Chloroethane	ug/kg	540 J	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
Benzene	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
Ethylbenzene	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
Toluene	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
o-Xylene	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
m&p-Xylene	ug/kg	<150	<150	<160	<150	<140	<160	<150	<170	<150 [<150]	<140	<150	<140	<140
Xylene (total)	ug/kg	<224	<226	<239	<227	<210	<239	<224	<255	<223 [<223]	<208	<224	<210	<211
Methyl tert butyl ether (MTBE)	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<740	<760	<790	<770	<700	<790	<740	<850	<730 [<730]	<680	<740	<700	<710
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<740	<760	<790	<770	<700	<790	<740	<850	<730 [<730]	<680	<740	<700	<710
1,2,4-Trichlorobenzene	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
1,2,4-Trimethylbenzene	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
1,3,5-Trimethylbenzene	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
1,2-Dichloropropane	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
1,3-Dichlorobenzene	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
Cyclohexane	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
Methyl cyclohexane	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
Dibromochloromethane	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
Isopropyl benzene	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71
Naphthalene	ug/kg	<74	<76	<79	<77	<70	<79	<74	<85	<73 [<73]	<68	<74	<70	<71

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.2-OE129* 51 - 52 05/02/12	VAP-A5.2-OE129* 58 - 59 05/02/12	VAP-A5.3-OV159* 7 - 8 05/10/12	VAP-A5.3-OV159* 12 - 13 05/10/12	VAP-A5.3-OV159* 17 - 18 05/10/12	VAP-A5.3-OV159* 22 - 23 05/10/12	VAP-A5.3-OV159* 26 - 27 05/10/12	VAP-A5.3-OV159* 31 - 32 05/10/12	VAP-A5.3-OV159* 36 - 37 05/10/12	VAP-A5.3-OV159* 41 - 42 05/10/12	VAP-A5.3-OV159* 46 - 47 05/10/12	VAP-A5.5-NP194* 16 - 17 05/09/12	VAP-A5.5-NP194* 20 - 21 05/09/12
	Units													
Semivolatile Organics														
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<30 J	<40 J	<40 J	<40 J	<40	<40 J	<40 J	<40 J	<40 J [<40]	<40	<40	<40 J	<40 J
2,4,6-Trichlorophenol	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2,4-Dichlorophenol	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
2,4,5-Trichlorophenol	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
2,4-Dimethylphenol	ug/kg	<30	<40	<40 J	<40 J	<40	<40	<40 J	<40 J	<40 J [<40]	<40	<40	<40	<40
2,4-Dinitrophenol	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
2,4-Dinitrotoluene	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
2,6-Dinitrotoluene	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
2-Chloronaphthalene	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
2-Chlorophenol	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
2-Methylnaphthalene	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
2-Methylphenol	ug/kg	<30	<40	<40	<40	<40	<40 J	<40	<40	<40 [<40]	<40	<40	<40	<40
2-Nitroaniline	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
2-Nitrophenol	ug/kg	<30	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J [<40]	<40	<40	<40	<40
3&4-Methylphenol	ug/kg	<70	<80	<80	<80	<70	<70	<70	<70	<70 [<70]	<70	<80	<80	<70
3,3'-Dichlorobenzidine	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Naphthalene	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
3-Nitroaniline	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
4-Bromophenyl phenyl ether	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
4-Chloro-3-methylphenol	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
4-Chloroaniline	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
4-Nitroaniline	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
4-Nitrophenol	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Anthracene	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Acenaphthene	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Acenaphthylene	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Acetophenone	ug/kg	<30	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J [<40]	<40	<40	<40	<40
Atrazine	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Benzaldehyde	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Benzo(a)anthracene	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Benzo(a)pyrene	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Benzo(b)fluoranthene	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Benzo(g,h,i)perylene	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Benzo(k)fluoranthene	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
bis(2-Chloroethoxy)methane	ug/kg	<30	<40	<40 J	<40 J	<40	<40 J	<40 J	<40 J	<40 J [<40]	<40	<40	<40	<40
bis(2-Chloroethyl)ether	ug/kg	<30 J	<40 J	<40 J	<40 J	<40	<40 J	<40 J	<40 J	<40 J [<40]	<40	<40	<40	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70	<80	110 J	<80 J	<70	<70 J	<70 J	<70 J	<70 J [80]	<70	<80	<80	<70
Butyl benzylphthalate (BBP)	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Caprolactam	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Carbazole	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Chrysene	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Dibenz(a,h)anthracene	ug/kg	<70	<80	<80	<80	<70	<70	<70	<70	<70 [<70]	<70	<80	<80	<70
Dibenzofuran	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Diethyl phthalate	ug/kg	<70	<80	<80	<80	<70	<70	<70	<70	<70 [<70]	<70	<80	<80	<70
Dimethyl phthalate	ug/kg	<30	<40	<40	50	<40	<40	40	40	<40 [<230 B]	<170 B	<180 B	<40	<40
Di-n-butylphthalate (DBP)	ug/kg	<70	<80	<80	<80	<70	<70	<70	<70	<70 [<70]	<70	<80	<80 B	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<70	<80	<80 J	<80 J	<70	<70 J	<70 J	<70 J	<70 J [<70]	<70	<80	<80	<70
Fluoranthene	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Fluorene	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Hexachlorobenzene	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Hexachlorobutadiene	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Hexachlorocyclopentadiene	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Hexachloroethane	ug/kg	<30	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J [<40]	<40	<40	<40	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Isophorone	ug/kg	<30	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J [<40]	<40	<40	<40	<40
Nitrobenzene	ug/kg	<30	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J [<40]	<40	<40	<40	<40
N-Nitrosodi-n-propylamine	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
N-Nitrosodiphenylamine	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Pentachlorophenol	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Phenanthrene	ug/kg	<30	<40	100	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Phenol	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40
Pyrene	ug/kg	<30	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	VAP-A5.2-OE129*	VAP-A5.2-OE129*	VAP-A5.3-OV159*	VAP-A5.3-OV159*	VAP-A5.3-OV159*	VAP-A5.3-OV159*	VAP-A5.3-OV159*	VAP-A5.3-OV159*	VAP-A5.3-OV159*	VAP-A5.3-OV159*	VAP-A5.3-OV159*	VAP-A5.5-NP194*	VAP-A5.5-NP194*
		51 - 52	58 - 59	7 - 8	12 - 13	17 - 18	22 - 23	26 - 27	31 - 32	36 - 37	41 - 42	46 - 47	16 - 17	20 - 21
		05/02/12	05/02/12	05/10/12	05/10/12	05/10/12	05/10/12	05/10/12	05/10/12	05/10/12	05/10/12	05/10/12	05/10/12	05/09/12
PCBs														
Aroclor-1016 (PCB-1016)	ug/kg	<3	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3
Aroclor-1221 (PCB-1221)	ug/kg	<3	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3
Aroclor-1232 (PCB-1232)	ug/kg	<3	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3
Aroclor-1242 (PCB-1242)	ug/kg	<3	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3
Aroclor-1248 (PCB-1248)	ug/kg	<3	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3
Aroclor-1254 (PCB-1254)	ug/kg	<3	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3
Aroclor-1260 (PCB-1260)	ug/kg	<3	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3
Total PCBs	ug/kg	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Inorganics														
Antimony	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.20
Arsenic	mg/kg	1.53	2.34	0.87 J	1.05 J	1.94 J	1.96 J	2.44 J	3.15 J	3.41 J [3.38 J]	3.56 J	4.45 J	0.72	1.87
Barium	mg/kg	3.45	19.8	56.3	40.2	23.6	26.4	19.0	20.6	31.4 [31.1]	33.1	58.0	31.9	23.6
Beryllium	mg/kg	<0.20	<0.20	0.29	0.22	<0.20	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.20	0.29	<0.20	<0.20
Boron	mg/kg	<2.0	<2.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0 [<4]	<4.0	<4.0	<4.0	<4.1
Cadmium	mg/kg	<0.10	<0.10	<0.10 J	<0.10 J	<0.10 J	<0.10 J	<0.10 J	0.21 J	0.54 J [0.14 J]	0.17 J	0.22 J	<0.10	0.13
Chromium	mg/kg	0.72	2.99	7.82	6.17	2.72	2.86	2.39	2.56	3.77 [3.59]	3.23	5.58	2.34	2.03
Cobalt	mg/kg	1.12	3.19	4.14	2.75	2.22	2.50	1.97	2.69	3.58 [3.46]	3.75	6.28	1.87	2.06
Copper	mg/kg	2.44	9.79	11.4	9.15	6.46	7.32	6.79	7.71	11.0 [10.3]	9.70	16.7	6.62	6.07
Lead	mg/kg	2.52	4.91	5.67 J	5.12 J	3.33 J	3.63 J	3.68 J	3.95 J	4.82 J [5.51 J]	5.25 J	8.02 J	3.62	3.28
Manganese	mg/kg	151	320	296	263	208	211	199	244	268 [260]	269	357	222	264
Mercury	mg/kg	<0.0051	0.0161	0.0156	0.0150	0.0083	0.0083	0.0080	0.0078	0.0098 [0.0105]	0.0116	0.0160	0.0072	0.0061
Nickel	mg/kg	3.70	8.14	12.6	11.6	7.42	7.78	6.39	8.80	10.6 [10.8]	11.4	18.5	6.03	6.49
Selenium	mg/kg	<0.20	0.22	0.31	<0.20	<0.20	<0.20	<0.20	<0.20	0.30 [0.21]	0.20	0.41	<0.20	0.22
Silver	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10 [<0.1]	<0.10	<0.10	<0.10	<0.10
Thallium	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.20	0.26	<0.20	<0.20
Vanadium	mg/kg	0.94	4.50	10.6	8.50	4.61	4.78	3.75	4.40	5.85 [5.74]	5.51	8.67	3.94	3.52
Zinc	mg/kg	7.82	17.3	17.1 J	16.4 J	10.0 J	12.1 J	13.9 J	23.1 J	61.6 J [19.5 J] ¹	22.1 J	29.5 J	7.45	13.3
Miscellaneous														
Total solids	%	99	88	84	86	90	91	90	90	91 [91]	90	86	88	90

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.5-NP194* 27 - 28 05/09/12	VAP-A5.5-NP194* 31 - 32 05/09/12	VAP-A5.5-NP194* 36 - 37 05/09/12	VAP-A5.5-NP194* 41 - 42 05/09/12	VAP-A5.5-NP194* 46 - 47 05/09/12	VAP-A5.5-NP194* 52 - 53 05/09/12	VAP-A5.5-NP194* 56 - 57 05/09/12	VAP-A5.5-NP194* 62 - 63 05/09/12
	Units								
Volatile Organics									
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
1,2-Dichlorobenzene	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
1,4-Dichlorobenzene	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
2-Hexanone	ug/kg	<690	<710	<790 [<780]	<820	<780	<710	<730	<670
Acetone	ug/kg	2,300 B	2,100 B	2,900 B [2,000 B]	2,400 B	<1,900	2,000 B	2,400 B	2,300 B
Bromodichloromethane	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
Bromoform	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
Carbon tetrachloride	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
Chlorobenzene	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
Chloroform (Trichloromethane)	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
Chloromethane (Methyl chloride)	ug/kg	<170	<180	<200 [<200]	<210	<190	<180	<180	<170
cis-1,3-Dichloropropene	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
Styrene	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
trans-1,3-Dichloropropene	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
1,4-Dioxane	ug/kg	<690	<710	<790 [<780]	<820	<780	<710	<730	<670
1,1,1-Trichloroethane	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
1,1,2,2-Tetrachloroethane	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
1,1,2-Trichloroethane	ug/kg	<69	<71	<79 [<78]	<82	<78	140 ^a	<73	<67
1,1-Dichloroethane	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
1,1-Dichloroethene	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
1,2-Dichloroethane	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
cis-1,2-Dichloroethene	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
trans-1,2-Dichloroethene	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
Trichloroethene	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
Tetrachloroethene	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
Vinyl chloride	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
Chloroethane	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
Benzene	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
Ethylbenzene	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
Toluene	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
o-Xylene	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
m&p-Xylene	ug/kg	<140	<140	<160 [<160]	<160	<160	<140	<150	<130
Xylene (total)	ug/kg	<209	<211	<239 [<238]	<242	<238	<211	<223	<197
Methyl tert butyl ether (MTBE)	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<690	<710	<790 [<780]	<820	<780	<710	<730	<670
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<690	<710	<790 [<780]	<820	<780	<710	<730	<670
1,2,4-Trichlorobenzene	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
1,2,4-Trimethylbenzene	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
1,3,5-Trimethylbenzene	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
1,2-Dichloropropane	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
1,3-Dichlorobenzene	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
Cyclohexane	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
Methyl cyclohexane	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
Dibromochloromethane	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
Isopropyl benzene	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67
Naphthalene	ug/kg	<69	<71	<79 [<78]	<82	<78	<71	<73	<67

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.5-NP194* 27 - 28 05/09/12	VAP-A5.5-NP194* 31 - 32 05/09/12	VAP-A5.5-NP194* 36 - 37 05/09/12	VAP-A5.5-NP194* 41 - 42 05/09/12	VAP-A5.5-NP194* 46 - 47 05/09/12	VAP-A5.5-NP194* 52 - 53 05/09/12	VAP-A5.5-NP194* 56 - 57 05/09/12	VAP-A5.5-NP194* 62 - 63 05/09/12
	Units								
Semivolatile Organics									
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<30 J	<30 J
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
2,4-Dichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40 J	<30 J	<30 J
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
2,4-Dimethylphenol	ug/kg	<40	<40	<40	<40	<40	<40 J	<30 J	<30 J
2,4-Dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
2-Chloronaphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
2-Chlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
2-Methylnaphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
2-Methylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
2-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
2-Nitrophenol	ug/kg	<40	<40	<40	<40	<40	<40 J	<30 J	<30 J
3&4-Methylphenol	ug/kg	<70	<80	<70	<70	<70	<80	<70	<70
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Naphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
3-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
4-Chloroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
4-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
4-Nitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Anthracene	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Acenaphthene	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Acenaphthylene	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Acetophenone	ug/kg	<40	<40	<40	<40	<40	<40 J	<30 J	<30 J
Atrazine	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Benzaldehyde	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Benzo(a)anthracene	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Benzo(a)pyrene	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Benzo(b)fluoranthene	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Benzo(g,h,i)perylene	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Benzo(k)fluoranthene	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<40	<40	<40	<40 J	<30 J	<30 J
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<40	<40	<40	<40 J	<30 J	<30 J
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70	<80	<70	<70	<70	<80 J	<70 J	<70 J
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Caprolactam	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Carbazole	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Chrysene	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Dibenz(a,h)anthracene	ug/kg	<70	<80	<70	<70	<70	<80	<70	<70
Dibenzofuran	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Diethyl phthalate	ug/kg	<70	<80	<70	<70	<70	<80	<70	<70
Dimethyl phthalate	ug/kg	270	280	290 J	170	140	180	90	130
Di-n-butylphthalate (DBP)	ug/kg	<70	<80	<70	<70	<70	<80	<70	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<70	<80	<70	<70	<70	<80 J	<70 J	<70 J
Fluoranthene	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Fluorene	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Hexachlorobenzene	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Hexachlorobutadiene	ug/kg	<40	<40	<40	<40	<40	<40 J	<30 J	<30 J
Hexachlorocyclopentadiene	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Hexachloroethane	ug/kg	<40	<40	<40	<40	<40	<40 J	<30 J	<30 J
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Isophorone	ug/kg	<40	<40	<40	<40	<40	<40 J	<30 J	<30 J
Nitrobenzene	ug/kg	<40	<40	<40	<40	<40	<40 J	<30 J	<30 J
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
N-Nitrosodiphenylamine	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Pentachlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Phenanthrene	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Phenol	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30
Pyrene	ug/kg	<40	<40	<40	<40	<40	<40	<30	<30

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	VAP-A5.5-NP194*	VAP-A5.5-NP194*	VAP-A5.5-NP194*	VAP-A5.5-NP194*	VAP-A5.5-NP194*	VAP-A5.5-NP194*	VAP-A5.5-NP194*	VAP-A5.5-NP194*
		27 - 28	31 - 32	36 - 37	41 - 42	46 - 47	52 - 53	56 - 57	62 - 63
		05/09/12	05/09/12	05/09/12	05/09/12	05/09/12	05/09/12	05/09/12	05/09/12
PCBs									
Aroclor-1016 (PCB-1016)	ug/kg	<3	<3	<3 [<3]	<3	<3	<3	<3	<3
Aroclor-1221 (PCB-1221)	ug/kg	<3	<3	<3 [<3]	<3	<3	<3	<3	<3
Aroclor-1232 (PCB-1232)	ug/kg	<3	<3	<3 [<3]	<3	<3	<3	<3	<3
Aroclor-1242 (PCB-1242)	ug/kg	<3	<3	<3 [<3]	<3	<3	<3	<3	<3
Aroclor-1248 (PCB-1248)	ug/kg	<3	<3	<3 [<3]	<3	<3	<3	<3	<3
Aroclor-1254 (PCB-1254)	ug/kg	<3	<3	<3 [<3]	<3	<3	<3	<3	<3
Aroclor-1260 (PCB-1260)	ug/kg	<3	<3	<3 [<3]	<3	<3	<3	<3	<3
Total PCBs	ug/kg	ND	ND	ND [ND]	ND	ND	ND	ND	ND
Inorganics									
Antimony	mg/kg	<0.20	<0.21	<0.20 [<0.2]	<0.20	<0.21	<0.21	<0.20	<0.20
Arsenic	mg/kg	2.35	4.83	2.47 [2.54]	3.15	2.95	3.00	8.13 ^{abi}	0.68
Barium	mg/kg	19.6	14.5	23.0 [20.6]	36.1	38.9	52.6	8.96	4.79
Beryllium	mg/kg	<0.20	<0.21	<0.20 [<0.2]	<0.20	<0.21	0.23	<0.20	<0.20
Boron	mg/kg	<3.9	<4.2	<4.0 [<4.1]	<4.1	<4.2	<4.2	<3.6	<3.8
Cadmium	mg/kg	0.15	0.11	0.18 [0.13]	0.17	0.19	0.21	<0.10	<0.10
Chromium	mg/kg	1.72	1.88	2.44 [1.96]	2.72	3.27	3.80	2.09	0.62
Cobalt	mg/kg	1.85	2.65	2.87 [2.74]	3.91	4.19	5.57	2.45	0.69
Copper	mg/kg	5.79	6.37	7.74 [7.56]	10.6	11.3	14.7	4.56	1.53
Lead	mg/kg	3.36	4.38	4.43 [4.8]	6.06	5.97	7.66	6.18	0.95
Manganese	mg/kg	225	297	255 [256]	298	290	340	853 ^{abi}	85.1
Mercury	mg/kg	0.0070	0.0092	0.0080 [0.0077]	0.0106	0.0104	0.0148	0.0264	<0.0051
Nickel	mg/kg	6.37	7.91	8.87 [8.79]	11.6	12.3	16.3	7.37	2.32
Selenium	mg/kg	0.29	<0.21	0.22 [0.29]	0.22	0.33	0.38	0.22	<0.20
Silver	mg/kg	<0.10	<0.10	<0.10 [<0.1]	<0.10	<0.10	<0.10	<0.10	<0.10
Thallium	mg/kg	<0.20	<0.21	<0.20 [<0.2]	<0.20	<0.21	0.25	<0.20	<0.20
Vanadium	mg/kg	3.32	3.98	3.74 [3.53]	4.76	5.32	6.27	2.77	1.21
Zinc	mg/kg	16.7	17.1	19.4 [14.8]	24.3	20.2	28.5	12.8	5.95
Miscellaneous									
Total solids	%	90	83	91 [91]	89	89	86	98	96

TABLE 12
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Soil Sample Analytical Results

Table Notes:

(1) Adjusted by a factor of 0.43 for a 100-acre source area.

-- Shading indicates result exceeding one or more MDEQ Part 201 Generic Cleanup Criteria and Screening Levels, Dated March 25, 2011.

-- Bold fonts represent data where detections were noted above the MDL but below MDEQ Part 201 Generic Cleanup Criteria.

-- Data shown in [] represent duplicate sample analytical results.

mg/kg - milligrams per kilogram

µg/kg - micrograms per kilogram

* - Sample was analyzed in on-site lab with instruments calibrated to screening mode. This data was not validated

** - Sample collected by others and analytical reports provided to ARCADIS. This data was not validated

^a - Sample exceeds Residential Drinking Water Protection Criteria

^b - Sample exceeds Groundwater Surface Water Interface Protection Criteria

^c - Sample exceeds Groundwater Contact Protection Criteria

^d - Sample exceeds Non-Residential Soil Volatilization to Indoor Air Criteria

^e - Sample exceeds Non-Residential Infinite Source Volatile Soil Inhalation Criteria

^f - Sample exceeds Non-Residential Direct Contact Criteria

^g - Sample exceeds Non-Residential Particulate Soil Inhalation Criteria

^h - Sample exceeds Soil Saturation Levels

ⁱ - Sample exceeds Statewide Background Default Levels

MDEQ Criteria Footnotes: (as revised September 28, 2012)

- - = Not listed in MDEQ Criteria Tables.

ID = Insufficient data to develop a criterion.

NA = Not available.

NLL = Not likely to leach.

NLV = Not likely to volatilize.

C = Value presented is a screening level based on the chemical-specific generic soil saturation concentration (C_{sat}) since the calculated risk-based criterion is greater than C_{sat}.

D = Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb).

G = Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. A hardness value of 257 mg/L was used.

M = Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.

T = Refer to the federal Toxic Substances Control Act (TSCA), 40 C.F.R. §761, Subpart D and 40 C.F.R. §761, Subpart G, to determine the applicability of TSCA cleanup standards.

W = Concentrations of trihalomethanes in soil shall be added together to determine compliance with the drinking water MCL.

X = The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source.

DD = Hazardous substance causes developmental effects. Residential direct contact criteria are protective of both ingestion and dermal contact.

Lab Data Qualifiers:

B = Compounds also found in associated method blank

D = Compound quantified using a secondary dilution

E = Analyte exceeds calibration range

I = Matrix interference with internal standard

J = The compound/constituent was positively identified; however, the associated numerical value is an estimated concentration only.

K = Elevated reporting limits due to low total solids

N = Normal Sample

p = Benzo(b)fluoranthene and Benzo(k)fluoranthene integrated as one peak

R = Rejected

S = Surrogate recovery outside of control limits

T = No correction for Total Solids

UJ = The analyte was not detected above the quantitation limits, however the quantitation limits is estimated

U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit

X = Elevated reporting limit due to matrix interference

z = Sample preserved in the lab

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		Residential Drinking Water Criteria ^(a)	Groundwater Surface Water Interface Criteria ^(b)	Groundwater Contact Criteria ^(c)	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria ^(d)	Water Solubility Levels ^(e)	Flammability and Explosivity Screening Levels ^(f)	Acute Inhalation Screening Levels ^(g)	Non-Residential Groundwater Concentrations for Vapor Intrusion ^(h)	A-4** 10/12/12	A-5** 10/12/12	APC MW-2D 11 - 21 09/17/12	APC MW-4D 17 - 22 09/17/12	APC MW-4S 6 - 16 09/17/12	APC MW-8D 31 - 36 09/17/12	APC MW-8S 11.5 - 16.5 09/17/12	APC MW-9D 15 - 20 09/17/12	MW-01(2) 10 - 20 10/18/11
Units																		
Volatile Organics																		
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.2(A)	ID	390	1,200(S)	1,230	NA	ID	280	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<0.05
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.05(A)	5.7(X)	25	15,000	4.20E+06	ID	ID	11	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<0.02
1,2-Dichlorobenzene	ug/L	600(A)	13	1.60E+05(S)	1.60E+05(S)	1.56E+05	NA	1.60E+05(S)	32,000	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
1,4-Dichlorobenzene	ug/L	75(A)	17	6,400	74,000(S)	73,800	NA	ID	250	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
2-Hexanone	ug/L	1,000	ID	5.20E+06	8.70E+06	1.60E+07	NA	ID	87,000	<10	<10	<10	<10	<10 [<10]	<10	<10	<10	<10
Acetone	ug/L	730	1,700	3.10E+07	1.00E+09(D,S)	1.00E+09	1.50E+07	1.00E+09(D)	3.40E+07	19	26	<10	<10	<10 [<10]	<10	<10	<10	<10
Bromodichloromethane	ug/L	80(A,W)	ID	14,000	37,000	6.74E+06	ID	ID	110	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
Bromoform	ug/L	80(A,W)	ID	1.40E+05	3.10E+06(S)	3.10E+06	ID	ID	7,200	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
Bromomethane (Methyl bromide)	ug/L	10	35	70,000	9,000	1.45E+07	ID	ID	140	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
Carbon disulfide	ug/L	800	ID	1.20E+06(S)	5.50E+05	1.19E+06	13,000	ID	9,900	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
Carbon tetrachloride	ug/L	5(A)	45(X)	4,600	2,400	7.93E+05	ID	96,000	26	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
Chlorobenzene	ug/L	100(A)	25	86,000	4.70E+05(S)	4.72E+05	1.60E+05	ID	4,600	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
Chloroform (Trichloromethane)	ug/L	80(A,W)	350	1.50E+05	1.80E+05	7.92E+06	ID	ID	480	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
Chloromethane (Methyl chloride)	ug/L	260	ID	4.90E+05	45,000	6.34E+06	36,000	2.10E+05	750	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	8.5	9(X)	5,500	26,000	2.80E+06	1.30E+05	ID	300	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
Dichlorodifluoromethane (CFC-12)	ug/L	1,700	ID	3.00E+05(S)	3.00E+05(S)	3.00E+05	ID	ID	29,000	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
Methyl acetate	ug/L	--	--	--	--	--	--	--	--	<10	<10	<10	<10	<10 [<10]	<10	<10	<10	<10
Methylene chloride	ug/L	5(A)	1,500(X)	2.20E+05	1.40E+06	1.70E+07	ID	ID	2,800	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
Styrene	ug/L	100(A)	80(X)	9,700	3.10E+05(S)	3.10E+05	1.40E+05	3.10E+05(S)	2,700	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	8.5	9(X)	5,500	26,000	2.80E+06	1.30E+05	ID	300	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
Trichlorofluoromethane (CFC-11)	ug/L	2,600	NA	1.10E+06(S)	1.10E+06(S)	1.10E+06	ID	1.10E+06(S)	1.20E+05	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
Trifluorotrichloroethane (Freon 113)	ug/L	1.70E+05(S)	32	1.70E+05(S)	1.70E+05(S)	1.70E+05	ID	1.70E+05(S)	30,000	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
1,4-Dioxane	ug/L	85	2,800(X)	1.70E+06	NLV	9.00E+08	1.40E+08	ID	--	<5	<5	<5	43	<5 [<5]	88 ^a	33	1,300 D ^a	<5
1,1,1-Trichloroethane	ug/L	200(A)	89	1.30E+06(S)	1.30E+06(S)	1.33E+06	ID	1.30E+06(S)	12,000	<1	<1	<1	<1	85 [89]	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	8.5	78(X)	4,700	77,000	2.97E+06	ID	ID	200	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	5(A)	330(X)	21,000	1.10E+05	4.42E+06	NA	ID	320	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	880	740	2.40E+06	2.30E+06	5.06E+06	3.80E+05	ID	18,000	<1	<1	<1	2	1 [1]	<1	<1	29	<1
1,1-Dichloroethene	ug/L	7(A)	130	11,000	1,300	2.25E+06	97,000	1.40E+05	1,600	<1	<1	<1	<1	<1 [<1]	<1	<1	9 ^a	<1
1,2-Dichloroethane	ug/L	5(A)	360(X)	19,000	59,000	8.52E+06	2.50E+06	ID	140	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	70(A)	620	2.00E+05	2.10E+05	3.50E+06	5.30E+05	ID	1,700	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
trans-1,2-Dichloroethene	ug/L	100(A)	1,500(X)	2.20E+05	2.00E+05	6.30E+06	2.30E+05	ID	1,500	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
Trichloroethene	ug/L	5(A)	200(X)	22,000	4,900	1.10E+06	ID	1.10E+06(S)	41	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
Tetrachloroethene	ug/L	5(A)	60(X)	12,000	1.70E+05	2.00E+05	ID	2.00E+05(S)	460	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
Vinyl chloride	ug/L	2(A)	13(X)	1,000	13,000	2.76E+06	33,000	ID	35	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
Chloroethane	ug/L	430	1,100(X)	4.40E+05	5.70E+06(S)	5.74E+06	1.10E+05	ID	1.80E+05	<1	<1	<1	99	<1 [<1]	<1	<1	59	<1
Benzene	ug/L	5(A)	200(X)	11,000	35,000	1.75E+06	68,000	67,000	92	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
Ethylbenzene	ug/L	74(E)	18	1.70E+05(S)	1.70E+05(S)	1.69E+05	43,000	1.70E+05(S)	1,700	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
Toluene	ug/L	790(E)	270	5.30E+05(S)	5.30E+05(S)	5.26E+05	61,000	ID	1.50E+05	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
o-Xylene	ug/L	280(E)	41	1.90E+05(S)	1.90E+05(S)	1.86E+05	70,000	1.90E+05(S)	10,000d	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
m&p-Xylene	ug/L	280(E)	41	1.90E+05(S)	1.90E+05(S)	1.86E+05	70,000	1.90E+05(S)	10,000d	<2	<2	<2	<2	<2 [<2]	<2	<2	<2	<2
Xylene (total)	ug/L	280(E)	41	1.90E+05(S)	1.90E+05(S)	1.86E+05	70,000	1.90E+05(S)	10,000d	NA	NA	<3	<3	<3 [<3]	<3	<3	<3	<3
Methyl tert butyl ether (MTBE)	ug/L	40(E)	7,100(X)	6.10E+05	4.70E+07(S)	4.68E+07	ID	ID	1.00E+06	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	12
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	13,000	2,200	2.40E+08(S)	2.40E+08(S)	2.40E+08	ID	2.40E+08(S)	1.80E+07	<10	<10	<10	<10	<10 [<10]	<10	<10	<10	<10
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	1,800	ID	1.30E+07	2.00E+07(S)	2.00E+07	ID	2.00E+07(S)	4.40E+06	<10	<10	<10	<10	<10 [<10]	<10	<10	<10	<10
1,2,4-Trichlorobenzene	ug/L	70(A)	99(X)	19,000	3.00E+05(S)	3.00E+05	NA	3.00E+05(S)	53,000	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	63(E)	17	56,000(S)	56,000(S)	55,890	56,000(S)	ID	7,300	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/L	72(E)	45	61,000(S)	61,000(S)	61,150	ID	ID	5,100	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/L	5(A)	230(X)	16,000	36,000	2.80E+06	5.50E+05	2.80E+06(S)	290	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
1,3-Dichlorobenzene	ug/L	6.6	28	2,000	41,000	1.11E+05	ID	ID	230	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
Cyclohexane	ug/L	--	--	--	--	--	--	--	8,100	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
Methyl cyclohexane	ug/L	--	--	--	--	--	--	--	--	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
Dibromochloromethane	ug/L	80(A,W)	ID	18,000	1.10E+05	2.60E+06	ID	ID	220	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
Isopropyl benzene	ug/L	800	28	56,000(S)	56,000(S)	56,000	29,000	ID	35	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1
Naphthalene	ug/L	520	11	31,000(S)	31,000(S)	31,000	NA	31,000(S)	800	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		Residential Drinking Water Criteria ^(a)	Groundwater Surface Water Interface Criteria ^(b)	Groundwater Contact Criteria ^(c)	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria ^(d)	Water Solubility Levels ^(e)	Flammability and Explosivity Screening Levels ^(f)	Acute Inhalation Screening Levels ^(g)	Non-Residential Groundwater Concentrations for Vapor Intrusion ^(h)	A-4** 10/12/12	A-5** 10/12/12	APC MW-2D 11 - 21 09/17/12	APC MW-4D 17 - 22 09/17/12	APC MW-4S 6 - 16 09/17/12	APC MW-8D 31 - 36 09/17/12	APC MW-8S 11.5 - 16.5 09/17/12	APC MW-9D 15 - 20 09/17/12	MW-01(2) 10 - 20 10/18/11
Units																		
Semivolatile Organics																		
1-Methylnaphthalene	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/L	20(M)	NA	9,500	NLV	2.00E+05	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) e	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
2,4,6-Trichlorophenol	ug/L	120	5	10,000	NLV	8.00E+05	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
2,4-Dichlorophenol	ug/L	73	11	48,000	NLV	4.50E+06	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
2,4,5-Trichlorophenol	ug/L	730	NA	1.70E+05	NLV	1.20E+06	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
2,4-Dimethylphenol	ug/L	370	380	5.20E+05	NLV	7.87E+06	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
2,4-Dinitrophenol	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
2,4-Dinitrotoluene	ug/L	7.7	NA	8,600	NLV	2.70E+05	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
2,6-Dinitrotoluene	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
2-Chloronaphthalene	ug/L	1,800	NA	6,700(S)	ID	6,740	ID	ID	ID	NA	NA	NA	NA	NA	NA	NA	NA	<1
2-Chlorophenol	ug/L	45	18	94,000	1.10E+06	2.20E+07	ID	ID	3.30E+05	NA	NA	NA	NA	NA	NA	NA	NA	<1
2-Methylnaphthalene	ug/L	260	19	25,000(S)	25,000(S)	24,600	ID	ID	3,900	NA	NA	NA	NA	NA	NA	NA	NA	<1
2-Methylphenol	ug/L	370	30(M)	8.10E+05	NLV	2.80E+07	NA	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
2-Nitroaniline	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
2-Nitrophenol	ug/L	20	ID	79,000	NLV	2.50E+06	ID	ID	ID	NA	NA	NA	NA	NA	NA	NA	NA	<1
3&4-Methylphenol	ug/L	370	30(M)	8.10E+05	NLV	2.80E+07	NA	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
3,3'-Dichlorobenzidine	ug/L	1.1	0.3(M)	180	NLV	3,110	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<0.05
Naphthalene	ug/L	520	11	31,000(S)	31,000(S)	31,000	NA	31,000(S)	800	NA	NA	NA	NA	NA	NA	NA	NA	<1
3-Nitroaniline	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
4-Bromophenyl phenyl ether	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
4-Chloro-3-methylphenol	ug/L	150	7.4	79,000	NLV	3.90E+06	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
4-Chloroaniline	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	<2
4-Chlorophenyl phenyl ether	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
4-Nitroaniline	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
4-Nitrophenol	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
Anthracene	ug/L	43(S)	ID	43(S)	43(S)	43.4	ID	ID	3.70E+06	NA	NA	NA	NA	NA	NA	NA	NA	<1
Acenaphthene	ug/L	1,300	38	4,200(S)	4,200(S)	4,240	ID	ID	2.30E+05	NA	NA	NA	NA	NA	NA	NA	NA	<1
Acenaphthylene	ug/L	52	ID	3,900(S)	3,900(S)	3,930	ID	ID	62,000	NA	NA	NA	NA	NA	NA	NA	NA	<1
Acetophenone	ug/L	1,500	ID	6.10E+06(S)	6.10E+06(S)	6.10E+06	ID	ID	9.60E+06	NA	NA	NA	NA	NA	NA	NA	NA	<1
Atrazine	ug/L	3(A)	7.3	5,400	NLV	70,000	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
Benzaldehyde	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
Benzo(a)anthracene	ug/L	2.1	ID	9.4(S,AA)	NLV	9.4	ID	ID	ID	NA	NA	NA	NA	NA	NA	NA	NA	<1
Benzo(a)pyrene	ug/L	5(A)	ID	1(M,AA)	NLV	1.62	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
Benzo(b)fluoranthene	ug/L	1.5(S,AA)	ID	1.5(S,AA)	ID	1.5	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
Benzo(g,h,i)perylene	ug/L	1(M); 0.26(S)	ID	1(M,AA); 0.26(S)	NLV	0.26	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
Benzo(k)fluoranthene	ug/L	1(M); 0.8(S)	NA	1(M,AA); 0.8(S)	NLV	0.8	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
Biphenyl (1,1-Biphenyl)	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
bis(2-Chloroethoxy)methane	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
bis(2-Chloroethyl)ether	ug/L	2	1(M)	5,700	2.10E+05	1.72E+07	1.70E+07(S)	1.70E+07(S)	750	NA	NA	NA	NA	NA	NA	NA	NA	<1
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	6(A)	25	320(AA)	NLV	340	NA	340(S)	--	NA	NA	NA	NA	NA	NA	NA	NA	<2
Butyl benzylphthalate (BBP)	ug/L	1,200	67(X)	2,700(S)	NLV	2,690	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
Caprolactam	ug/L	5,800	NA	3.90E+08	NLV	5.25E+09	NA	1.00E+09(D)	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
Carbazole	ug/L	85	10(M)	7,400	NLV	7,480	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
Chrysene	ug/L	1.6(S)	ID	1.6(S,AA)	ID	1.6	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
Dibenz(a,h)anthracene	ug/L	2(M)	ID	2(M,AA)	NLV	2.49	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
Dibenzofuran	ug/L	ID	4	ID	10,000(S)	10,000	ID	ID	96	NA	NA	NA	NA	NA	NA	NA	NA	<1
Diethyl phthalate	ug/L	5,500	110	1.10E+06(S)	NLV	1.08E+06	NA	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<2
Dimethyl phthalate	ug/L	73,000	NA	4.20E+06(S)	NLV	4.19E+06	NA	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<2
Di-n-butylphthalate (DBP)	ug/L	880	9.7	11,000(S)	NLV	11,200	NA	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
Di-n-octyl phthalate (DnOP)	ug/L	130	ID	400	NLV	3,000	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
Fluoranthene	ug/L	210(S)	1.6	210(S)	210(S)	206	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
Fluorene	ug/L	880	12	2,000(S)	2,000(S)	1,980	ID	ID	3.00E+05	NA	NA	NA	NA	NA	NA	NA	NA	<1
Hexachlorobenzene	ug/L	1(A)	0.2(M)	4.6	3,000	6,200	ID	ID	5.4	NA	NA	NA	NA	NA	NA	NA	NA	<0.05
Hexachlorobutadiene	ug/L	15	0.053	400	3,200(S)	3,230	ID	ID	19	NA	NA	NA	NA	NA	NA	NA	NA	<1
Hexachlorocyclopentadiene	ug/L	50(A)	ID	1,600	420	1,800	ID	ID	50d	NA	NA	NA	NA	NA	NA	NA	NA	<1
Hexachloroethane	ug/L	7.3	6.7(X)	1,900	50,000(S)	50,000	ID	ID	180	NA	NA	NA	NA	NA	NA	NA	NA	<1
Indeno(1,2,3-cd)pyrene	ug/L	2(M); 0.022(S)	ID	2(M,AA); 0.022(S)	NLV	0.022	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
Isophorone	ug/L	770	1,300(X)	9.90E+05	NLV	1.20E+07	ID	1.20E+07(S)	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
Nitrobenzene	ug/L	3.4	180(X)	11,000	5.50E+05	2.09E+06	NA	ID	4,400	NA	NA	NA	NA	NA	NA	NA	NA	<1
N-Nitrosodi-n-propylamine	ug/L	5(M)	NA	360	NLV	9.89E+06	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
N-Nitrosodiphenylamine	ug/L	270	NA	35,000(S)	NLV	35,100	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
Pentachlorophenol	ug/L	1(A)	1.8(G,X)	200	NLV	1.85E+06	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
Phenanthrene	ug/L	52	2(M)	1,000(S)	1,000(S)	1,000	ID	ID	480	NA	NA	NA	NA	NA	NA	NA	NA	<1
Phenol	ug/L	4,400	450	2.90E+07	NLV	8.28E+07	NA	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<1
Pyrene	ug/L	140(S)	ID	140(S)	140(S)	135	ID	ID	1.70E+06	NA	NA	NA	NA	NA	NA	NA	NA	<1

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		Residential Drinking Water Criteria ^(a)	Groundwater Surface Water Interface Criteria ^(b)	Groundwater Contact Criteria ^(c)	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria ^(d)	Water Solubility Levels ^(e)	Flammability and Explosivity Screening Levels ^(f)	Acute Inhalation Screening Levels ^(g)	Non-Residential Groundwater Concentrations for Vapor Intrusion ^(h)	A-4** 10/12/12	A-5** 10/12/12	APC MW-2D 11 - 21 09/17/12	APC MW-4D 17 - 22 09/17/12	APC MW-4S 6 - 16 09/17/12	APC MW-8D 31 - 36 09/17/12	APC MW-8S 11.5 - 16.5 09/17/12	APC MW-9D 15 - 20 09/17/12	MW-01(2) 10 - 20 10/18/11
Units																		
Semivolatile Organics-Filtered																		
2-Methyl-4,6-dinitrophenol	ug/L	20(M)	NA	9,500	NLV	2.00E+05	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) e	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	120	5	10,000	NLV	8.00E+05	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	73	11	48,000	NLV	4.50E+06	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	730	NA	1.70E+05	NLV	1.20E+06	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	370	380	5.20E+05	NLV	7.87E+06	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	7.7	NA	8,600	NLV	2.70E+05	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	1,800	NA	6,700(S)	ID	6,740	ID	ID	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	45	18	94,000	1.10E+06	2.20E+07	ID	ID	3.30E+05	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	260	19	25,000(S)	25,000(S)	24,600	ID	ID	3,900	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	370	30(M)	8.10E+05	NLV	2.80E+07	NA	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	20	ID	79,000	NLV	2.50E+06	ID	ID	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	370	30(M)	8.10E+05	NLV	2.80E+07	NA	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	1.1	0.3(M)	180	NLV	3,110	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	520	11	31,000(S)	31,000(S)	31,000	NA	31,000(S)	800	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	150	7.4	79,000	NLV	3.90E+06	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	43(S)	ID	43(S)	43(S)	43.4	ID	ID	3.70E+06	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	1,300	38	4,200(S)	4,200(S)	4,240	ID	ID	2.30E+05	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	52	ID	3,900(S)	3,900(S)	3,930	ID	ID	62,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	1,500	ID	6.10E+06(S)	6.10E+06(S)	6.10E+06	ID	ID	9.60E+06	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	3(A)	7.3	5,400	NLV	70,000	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	2.1	ID	9.4(S,AA)	NLV	9.4	ID	ID	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	5(A)	ID	1(M,AA)	NLV	1.62	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	1.5(S,AA)	ID	1.5(S,AA)	ID	1.5	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	1(M); 0.26(S)	ID	1(M,AA); 0.26(S)	NLV	0.26	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	1(M); 0.8(S)	NA	1(M,AA); 0.8(S)	NLV	0.8	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	2	1(M)	5,700	2.10E+05	1.72E+07	1.70E+07(S)	1.70E+07(S)	750	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	6(A)	25	320(AA)	NLV	340	NA	340(S)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	1,200	67(X)	2,700(S)	NLV	2,690	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	5,800	NA	3.90E+08	NLV	5.25E+09	NA	1.00E+09(D)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	85	10(M)	7,400	NLV	7,480	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	1.6(S)	ID	1.6(S,AA)	ID	1.6	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	2(M)	ID	2(M,AA)	NLV	2.49	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	ID	4	ID	10,000(S)	10,000	ID	ID	96	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/L	5,500	110	1.10E+06(S)	NLV	1.08E+06	NA	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/L	73,000	NA	4.20E+06(S)	NLV	4.19E+06	NA	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	880	9.7	11,000(S)	NLV	11,200	NA	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	130	ID	400	NLV	3,000	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	210(S)	1.6	210(S)	210(S)	206	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	880	12	2,000(S)	2,000(S)	1,980	ID	ID	3.00E+05	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/L	1(A)	0.2(M)	4.6	3,000	6,200	ID	ID	5.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	15	0.053	400	3,200(S)	3,230	ID	ID	19	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	50(A)	ID	1,600	420	1,800	ID	ID	50d	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	7.3	6.7(X)	1,900	50,000(S)	50,000	ID	ID	180	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	2(M); 0.022(S)	ID	2(M,AA); 0.022(S)	NLV	0.022	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	770	1,300(X)	9.90E+05	NLV	1.20E+07	ID	1.20E+07(S)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	3.4	180(X)	11,000	5.50E+05	2.09E+06	NA	ID	4,400	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	5(M)	NA	360	NLV	9.89E+06	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	270	NA	35,000(S)	NLV	35,100	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	1(A)	1.8(G,X)	200	NLV	1.85E+06	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	52	2(M)	1,000(S)	1,000(S)	1,000	ID	ID	480	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	4,400	450	2.90E+07	NLV	8.28E+07	NA	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	140(S)	ID	140(S)	140(S)	135	ID	ID	1.70E+06	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		Residential Drinking Water Criteria ^(a)	Groundwater Surface Water Interface Criteria ^(b)	Groundwater Contact Criteria ^(c)	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria ^(d)	Water Solubility Levels ^(e)	Flammability and Explosivity Screening Levels ^(f)	Acute Inhalation Screening Levels ^(g)	Non-Residential Groundwater Concentrations for Vapor Intrusion ^(h)	A-4** 10/12/12	A-5** 10/12/12	APC MW-2D 11 - 21 09/17/12	APC MW-4D 17 - 22 09/17/12	APC MW-4S 6 - 16 09/17/12	APC MW-8D 31 - 36 09/17/12	APC MW-8S 11.5 - 16.5 09/17/12	APC MW-9D 15 - 20 09/17/12	MW-01(2) 10 - 20 10/18/11
	Units																	
PCBs																		
Aroclor-1016 (PCB-1016)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	<0.05	<0.05	NA	NA	NA	NA	NA	NA	<0.05
Aroclor-1221 (PCB-1221)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	<0.1	<0.1	NA	NA	NA	NA	NA	NA	<0.05
Aroclor-1232 (PCB-1232)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	<0.1	<0.1	NA	NA	NA	NA	NA	NA	<0.05
Aroclor-1242 (PCB-1242)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	<0.1	<0.1	NA	NA	NA	NA	NA	NA	<0.05
Aroclor-1248 (PCB-1248)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	<0.1	<0.1	NA	NA	NA	NA	NA	NA	<0.05
Aroclor-1254 (PCB-1254)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	<0.1	<0.1	NA	NA	NA	NA	NA	NA	<0.05
Aroclor-1260 (PCB-1260)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	<0.05	<0.05	NA	NA	NA	NA	NA	NA	<0.05
Total PCBs	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	<0	<0	NA	NA	NA	NA	NA	NA	<0.05
PCBs-Filtered																		
Total PCBs (dissolved)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1016 (PCB-1016)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																		
Antimony	mg/L	0.006(A)	0.13(X)	68	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<0.002
Arsenic	mg/L	0.01(A)	0.01	4.3	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<0.002
Barium	mg/L	2(A)	1.2(G)	14,000	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	0.337
Beryllium	mg/L	0.004(A)	0.026(G)	290	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<0.001
Boron	mg/L	0.5(F)	7.2(X)	62,000	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	0.06
Cadmium	mg/L	0.005(A)	0.0045(G,X)	190	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<0.001
Chromium VI (hexavalent)	mg/L	0.1(A)	0.011(G,X)	460	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<0.02
Chromium	mg/L	0.1(A)	0.16(G,X)	2.90E+05	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<0.010
Cobalt	mg/L	0.04	0.1	2,400	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<0.010
Copper	mg/L	1(E)	0.02(G)	7,400	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	0.032^b
Lead	mg/L	0.004(L)	0.044(G,X)	ID	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<0.002
Manganese	mg/L	0.05(E)	4.5(G,X)	9,100	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	0.074^a
Mercury	mg/L	0.002(A)	0.0000013	0.056(S)	0.056(S)	0.056	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<0.0001
Nickel	mg/L	0.1(A)	0.12(G)	74,000	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	0.010
Selenium	mg/L	0.05(A)	0.005	970	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<0.002
Silver	mg/L	0.034	0.0002(M)	1,500	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	0.0005^b
Thallium	mg/L	0.002(A)	0.0037(X)	13	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<0.002
Vanadium	mg/L	0.0045	0.027	970	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	<0.002
Zinc	mg/L	2.4	0.26(G)	1.10E+05	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	0.086
Inorganics-Filtered																		
Antimony (dissolved)	mg/L	0.006(A)	0.13(X)	68	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (dissolved)	mg/L	0.01(A)	0.01	4.3	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (dissolved)	mg/L	2(A)	1.2(G)	14,000	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (dissolved)	mg/L	0.004(A)	0.026(G)	290	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/L	0.5(F)	7.2(X)	62,000	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (dissolved)	mg/L	0.005(A)	0.0045(G,X)	190	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	0.1(A)	0.16(G,X)	2.90E+05	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (dissolved)	mg/L	0.04	0.1	2,400	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (dissolved)	mg/L	1(E)	0.02(G)	7,400	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (dissolved)	mg/L	0.004(L)	0.044(G,X)	ID	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (dissolved)	mg/L	0.05(E)	4.5(G,X)	9,100	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (dissolved)	mg/L	0.002(A)	0.0000013	0.056(S)	0.056(S)	0.056	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (dissolved)	mg/L	0.1(A)	0.12(G)	74,000	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (dissolved)	mg/L	0.05(A)	0.005	970	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (dissolved)	mg/L	0.034	0.0002(M)	1,500	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (dissolved)	mg/L	0.002(A)	0.0037(X)	13	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (dissolved)	mg/L	0.0045	0.027	970	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (dissolved)	mg/L	2.4	0.26(G)	1.10E+05	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:	Units	MW-01(2)	MW-02(2)	MW-02(2)	MW-03(2)	MW-03(2)	MW-12-01	MW-12-01	MW-12-02	MW-12-02	MW-12-05	MW-12-05	MW-12-05	MW-12-06	MW-12-06	MW-12-06	MW-12-07	MW-12-08	MW-12-09	MW-12-17	MW-12-18
		10 - 20	12 - 22	12 - 22	12 - 22	12 - 22	87 - 110	87 - 110	87 - 110	87 - 110	75 - 99	75 - 99	75 - 99	80.6 - 99.5	80.6 - 99.5	80.6 - 99.5	10 - 15	19 - 24	14 - 19	9.5 - 14.5	28 - 33
		12/20/12	10/18/11	12/20/12	10/18/11	12/20/12	04/18/12	12/18/12	04/17/12	12/18/12	10/04/12	10/16/12	12/19/12	10/03/12	10/16/12	12/18/12	12/19/12	12/20/12	12/19/12	12/20/12	11/20/12
Volatile Organics																					
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	<1	<0.05	<1	<0.05	<1 [<1]	<0.05	<1	<0.05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromoethane (Ethylene dibromide)	ug/L	<1	<0.02	<1	<0.02	<1 [<1]	<0.02	<1	<0.02	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Hexanone	ug/L	<10	<10	<10	<10	<10 [<10]	<10	<10	<10	<10	<10	<10	<10 J	<10	<10	<10	<10 J	<10	<10 J	<10	<10
Acetone	ug/L	<10	<10	<10	<10	<10 [<10]	<10	<10	<10	<10	<10	<10	<10 J	<10	<10	<10	<10 J	<10	<10 J	<10	<10
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane (Methyl bromide)	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon disulfide	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1 J	<1	<1 J	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform (Trichloromethane)	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane (Methyl chloride)	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane (CFC-12)	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl acetate	ug/L	<10	<10	<10	<10	<10 [<10]	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methylene chloride	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane (CFC-11)	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trifluorotrichloroethane (Freon 113)	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dioxane	ug/L	<5	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA
1,1,1-Trichloroethane	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2
1,1-Dichloroethene	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzene	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	ug/L	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	ug/L	<2	<2	<2	<2	<2 [<2]	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Xylene (total)	ug/L	<3	<3	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Methyl tert butyl ether (MTBE)	ug/L	10	<1	<1	<1	2 [2]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	<10	<10	<10	<10	<10 [<10]	<10	<10	<10	<10	<10	<10	<10 J	<10	<10	<10	<10 J	<10	<10 J	<10	<10
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	<10	<10	<10	<10	<10 [<10]	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		MW-01(2) 10 - 20 12/20/12	MW-02(2) 12 - 22 10/18/11	MW-02(2) 12 - 22 12/20/12	MW-03(2) 12 - 22 10/18/11	MW-03(2) 12 - 22 12/20/12	MW-12-01 87 - 110 04/18/12	MW-12-01 87 - 110 12/18/12	MW-12-02 87 - 110 04/17/12	MW-12-02 87 - 110 12/18/12	MW-12-05 75 - 99 10/04/12	MW-12-05 75 - 99 10/16/12	MW-12-05 75 - 99 12/19/12	MW-12-06 80.6 - 99.5 10/03/12	MW-12-06 80.6 - 99.5 10/16/12	MW-12-06 80.6 - 99.5 12/18/12	MW-12-07 10 - 15 12/19/12	MW-12-08 19 - 24 12/20/12	MW-12-09 14 - 19 12/19/12	MW-12-17 9.5 - 14.5 12/20/12	MW-12-18 28 - 33 11/20/12
Semivolatile Organics																					
1-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
2,4,6-Trichlorophenol	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
2,4-Dichlorophenol	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1 J	<1	<1	<1	<1 J	<1	NA
2,4,5-Trichlorophenol	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
2,4-Dimethylphenol	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
2,4-Dinitrophenol	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
2,4-Dinitrotoluene	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
2,6-Dinitrotoluene	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
2-Chloronaphthalene	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
2-Chlorophenol	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
2-Methylnaphthalene	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
2-Methylphenol	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
2-Nitroaniline	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
2-Nitrophenol	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1 J	<1	<1 J	<1	<1 J	<1	NA
3&4-Methylphenol	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1 J	<1 J	<1	<1 J	<1 J	<1	<1	<1	<1	<1	NA
3,3'-Dichlorobenzidine	ug/L	NA	<0.05	NA	<0.05	NA	<0.05	NA	<0.05	NA	NA	<0.05	NA	<0.05	<0.05	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
3-Nitroaniline	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
4-Bromophenyl phenyl ether	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
4-Chloro-3-methylphenol	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
4-Chloroaniline	ug/L	<1	<2	<1	<2	<1 <1	<2	<1 J	<2	<1 J	<1 J	<1	<2	<1 J	<1	<2	<1 J	<1	<1 J	<1	NA
4-Chlorophenyl phenyl ether	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
4-Nitroaniline	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
4-Nitrophenol	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Anthracene	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Acenaphthene	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Acenaphthylene	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Acetophenone	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1 J	<1	<1 J	<1	<1 J	<1	NA
Atrazine	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Benzaldehyde	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1 J	<1	<1	<1	<1	<1	NA
Benzo(a)anthracene	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Benzo(a)pyrene	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Benzo(b)fluoranthene	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	R	<1	R	<1	NA
Benzo(g,h,i)perylene	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Benzo(k)fluoranthene	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	R	<1	R	<1	NA
Biphenyl (1,1-Biphenyl)	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
bis(2-Chloroethoxy)methane	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	NA
bis(2-Chloroethyl)ether	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1 J	<1	<1	<1	<1	<1	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	<1	<2	<1	<2	8 [1] J ^a	<2	< 3 B	<2	<1 B	3	<1 BJ	<2	<1	<1 J	<2	<1	<1	<1	<1	NA
Butyl benzylphthalate (BBP)	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Caprolactam	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1 J	<2 B	2	<1 J	<2 B	1	<1	<1	<1	<1	NA
Carbazole	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Chrysene	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Dibenz(a,h)anthracene	ug/L	<2	<1	<2	<1	<2 <2	<1	<2	<1	<2	<2	<2	<1	<2	<2	<1	<2	<2	<2	<2	NA
Dibenzofuran	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Diethyl phthalate	ug/L	<1	<2	<1	<2	<1 <1	<2	<1	<2	<1	1	<2	<2	<1	<2	<2	<1	<1	<1	<1	NA
Dimethyl phthalate	ug/L	<1	<2	<1	<2	<1 <1	<2	<1	<2	<1	<1	<1	<2	<1	<1	<2	<1	<1	<1	<1	NA
Di-n-butylphthalate (DBP)	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<2 B	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Di-n-octyl phthalate (DnOP)	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Fluoranthene	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Fluorene	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Hexachlorobenzene	ug/L	NA	<0.05	NA	<0.05	NA	<0.05	NA	<0.05	NA	NA	<0.05	NA	<0.05	<0.05	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Hexachlorocyclopentadiene	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Hexachloroethane	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Indeno(1,2,3-cd)pyrene	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Isophorone	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Nitrobenzene	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
N-Nitrosodi-n-propylamine	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
N-Nitrosodiphenylamine	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	R	<1	R	<1	NA
Pentachlorophenol	ug/L	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Phenanthrene	ug/L	<1	<1	<1	<1	<1 <1	<1	<1													

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		MW-01(2) 10 - 20 12/20/12	MW-02(2) 12 - 22 10/18/11	MW-02(2) 12 - 22 12/20/12	MW-03(2) 12 - 22 10/18/11	MW-03(2) 12 - 22 12/20/12	MW-12-01 87 - 110 04/18/12	MW-12-01 87 - 110 12/18/12	MW-12-02 87 - 110 04/17/12	MW-12-02 87 - 110 12/18/12	MW-12-05 75 - 99 10/04/12	MW-12-05 75 - 99 10/16/12	MW-12-05 75 - 99 12/19/12	MW-12-06 80.6 - 99.5 10/03/12	MW-12-06 80.6 - 99.5 10/16/12	MW-12-06 80.6 - 99.5 12/18/12	MW-12-07 10 - 15 12/19/12	MW-12-08 19 - 24 12/20/12	MW-12-09 14 - 19 12/19/12	MW-12-17 9.5 - 14.5 12/20/12	MW-12-18 28 - 33 11/20/12
Units																					
Semivolatile Organics-Filtered																					
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) e	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:	Units	MW-01(2)	MW-02(2)	MW-02(2)	MW-03(2)	MW-03(2)	MW-12-01	MW-12-01	MW-12-02	MW-12-02	MW-12-02	MW-12-05	MW-12-05	MW-12-05	MW-12-06	MW-12-06	MW-12-06	MW-12-07	MW-12-08	MW-12-09	MW-12-17	MW-12-18
		10 - 20	12 - 22	12 - 22	12 - 22	12 - 22	87 - 110	87 - 110	87 - 110	87 - 110	75 - 99	75 - 99	75 - 99	80.6 - 99.5	80.6 - 99.5	80.6 - 99.5	10 - 15	19 - 24	14 - 19	9.5 - 14.5	28 - 33	
		12/20/12	10/18/11	12/20/12	10/18/11	12/20/12	04/18/12	12/18/12	04/17/12	12/18/12	10/04/12	10/16/12	12/19/12	10/03/12	10/16/12	12/18/12	12/19/12	12/20/12	12/19/12	12/20/12	11/20/12	
PCBs																						
Aroclor-1016 (PCB-1016)	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05 [<0.05]	NA	<0.05	NA	<0.05	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	NA	
Aroclor-1221 (PCB-1221)	ug/L	<0.1	<0.05	<0.1	<0.05	<0.1 [<0.1]	NA	<0.1	NA	<0.1	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	NA	
Aroclor-1232 (PCB-1232)	ug/L	<0.1	<0.05	<0.1	<0.05	<0.1 [<0.1]	NA	<0.1	NA	<0.1	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	NA	
Aroclor-1242 (PCB-1242)	ug/L	<0.1	<0.05	<0.1	<0.05	<0.1 [<0.1]	NA	<0.1	NA	<0.1	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	NA	
Aroclor-1248 (PCB-1248)	ug/L	<0.1	<0.05	<0.1	<0.05	<0.1 [<0.1]	NA	<0.1	NA	<0.1	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	NA	
Aroclor-1254 (PCB-1254)	ug/L	<0.1	<0.05	<0.1	<0.05	<0.1 [<0.1]	NA	<0.1	NA	<0.1	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	NA	
Aroclor-1260 (PCB-1260)	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05 [<0.05]	NA	<0.05	NA	<0.05	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	NA	
Total PCBs	ug/L	ND	<0.05	ND	<0.05	ND [ND]	NA	ND	NA	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NA	
PCBs-Filtered																						
Total PCBs (dissolved)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	ND	NA	NA	NA	NA	NA	
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	NA	NA	<0.05	NA	NA	NA	NA	NA	
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	<0.1	NA	NA	NA	NA	NA	
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	<0.1	NA	NA	NA	NA	NA	
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	<0.1	NA	NA	NA	NA	NA	
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	<0.1	NA	NA	NA	NA	NA	
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	<0.1	NA	NA	NA	NA	NA	
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	NA	NA	<0.05	NA	NA	NA	NA	NA	
Inorganics																						
Antimony	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002	0.003 [0.003]	0.008	<0.002	0.023^{ab}	0.010	0.003	<0.002	<0.002	0.008	0.006	0.003	<0.002	<0.002	0.003	<0.002	NA	
Barium	mg/L	0.406	0.125	0.154	0.618	0.551 [0.549]	0.075	0.038	0.217	0.210	0.053	0.034	0.037	0.035	0.049	0.031	0.052	0.326	0.063	0.085	NA	
Beryllium	mg/L	NA	<0.001	NA	<0.001	NA	<0.001	NA	<0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Boron	mg/L	0.07 J	0.15	0.14 J	0.17	0.16 J[0.16 J]	0.12	0.08	0.07	0.06	0.07	0.05	0.06	0.26	0.18	0.11	0.05	<0.04 J	0.16	0.04 J	NA	
Cadmium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001 [<0.001]	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	
Chromium VI (hexavalent)	mg/L	NA	<0.02	NA	<0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010 [<0.01]	<0.010	<0.010	<0.010	<0.010	0.037	<0.010	0.033	<0.010	<0.010	0.036	<0.010	<0.010	<0.010	<0.010	NA	
Cobalt	mg/L	<0.010	<0.010	<0.010	0.012	<0.010 [<0.01]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA	
Copper	mg/L	0.015	0.002	0.003	0.006	0.007 [0.007]	0.006	<0.002	0.005	<0.002	0.045^b	<0.002	0.005	0.004	<0.002	0.028^b	0.007	0.010	0.003	<0.002	NA	
Lead	mg/L	<0.002	<0.002	0.002	<0.002	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	0.007^a	0.002	<0.002	<0.002	<0.002	0.003	<0.002	<0.002	<0.002	<0.002	NA	
Manganese	mg/L	0.169^a	0.020	0.165^a	2.14^a	2.03 [2.02]^a	0.058^a	0.427^a	0.164^a	0.157^a	0.904^a	0.103^a	0.184^a	0.073^a	0.049	0.337^a	0.067^a	0.672^a	0.698^a	0.169^a	NA	
Mercury	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001 [<0.0001]	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	NA	
Nickel	mg/L	0.011	<0.010	<0.010	0.049	0.028 [0.029]	<0.010	<0.010	<0.010	<0.010	0.031	0.012	0.038	<0.010	<0.010	0.040	<0.010	0.017	0.010	<0.010	NA	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	
Silver	mg/L	<0.0002	<0.0002	<0.0002	0.0005^b	<0.0002 [<0.0002]	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0104^b	<0.0002	<0.0002	<0.0002	<0.0002	NA	
Thallium	mg/L	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	0.007^a	<0.002	0.002	<0.002	<0.002	0.006^a	<0.002	<0.002	<0.002	<0.002	NA	
Zinc	mg/L	0.036	<0.010	0.019	0.018	<0.010 [0.01]	<0.010	<0.010	<0.010	<0.010	0.030	0.060	0.									

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		MW-12-18 28 - 33 12/19/12	P2-MW-01 31 - 36 08/29/11	P2-MW-01 31 - 36 10/10/11	P2-MW-01 31 - 36 12/18/12	P2-MW-02 31 - 41 09/07/11	P2-MW-02 31 - 41 10/10/11	P2-MW-02 31 - 41 10/19/11	P2-MW-02 31 - 41 12/19/12	P2-MW-03 27 - 32 08/31/11	P2-MW-03 27 - 32 10/10/11	P2-MW-03 27 - 32 12/19/12	P2-MW-04 26 - 36 08/25/11	P2-MW-04 26 - 36 10/05/11	P2-SB-03 14 - 19 09/16/11	P2-SB-03 14 - 19 12/20/12	P2-SB-06 24 - 29 09/06/11	P2-SB-06 24 - 29 12/20/12	P2-SB-20 8 - 13 08/31/11	P2-SB-20 8 - 13 12/20/12	SB-A1-RJ78 10 - 14 09/17/12
	Units																				
Volatile Organics																					
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	<1	<0.05	<0.05	<1	NA	<0.05	NA	<1	NA	<0.05	<1	<0.05	<0.05	<0.05	<1	<0.05	<1 [<1]	<0.05	<1	<1 J
1,2-Dibromoethane (Ethylene dibromide)	ug/L	<1	<0.02	<0.02	<1	NA	<0.02	NA	<1	NA	<0.02	<1	<0.02	<0.02	<0.02	<1	<0.02	<1 [<1]	<0.02	<1	<1
1,2-Dichlorobenzene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
1,4-Dichlorobenzene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
2-Hexanone	ug/L	<10 J	<10	<10	<10	NA	<10	NA	<10 J	NA	<10	<10 J	<10	<10	<10	<10	<10	<10 [<10]	<10	<10	<10
Acetone	ug/L	<10 J	<10	<10	<10	NA	<10	NA	<10 J	NA	<10	<10	<10	<10	<10	<10	<10	<10 [<10]	<10	<10	<10
Bromodichloromethane	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 J
Bromomethane (Methyl bromide)	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
Carbon disulfide	ug/L	<1 J	<1	<1	<1	NA	<1	NA	<1 J	NA	<1	<1 J	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 J
Carbon tetrachloride	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
Chloroform (Trichloromethane)	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
Chloromethane (Methyl chloride)	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 J
cis-1,3-Dichloropropene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
Dichlorodifluoromethane (CFC-12)	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 J
Methyl acetate	ug/L	<10	<10	<10	<10	NA	<10	NA	<10	NA	<10	<10	<10	<10	<10	<10	<10	<10 [<10]	<10	<10	<10 J
Methylene chloride	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
Styrene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
Trichlorofluoromethane (CFC-11)	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
Trifluorotrichloroethane (Freon 113)	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
1,4-Dioxane	ug/L	<5	<5	<5	<5	NA	<5	NA	<5	NA	43	20	50	62	<5	<5	30	22 [23]	<5	<5	<5
1,1,1-Trichloroethane	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
1,1,2-Trichloroethane	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
1,1-Dichloroethane	ug/L	2	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	3 [3]	<1	<1	<1
1,1-Dichloroethene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
1,2-Dichloroethane	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
trans-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	NA	1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
Trichloroethene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
Tetrachloroethene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
Vinyl chloride	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 J
Chloroethane	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	1	2 [2]	<1	<1	<1
Benzene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
Toluene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
o-Xylene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
m&p-Xylene	ug/L	<2	<2	<2	<2	NA	<2	NA	<2	NA	<2	<2	<2	<2	<2	<2	<2	<2 [<2]	<2	<2	<2
Xylene (total)	ug/L	<3	<3	<3	<3	NA	<3	NA	<3	NA	<3	<3	<3	<3	<3	<3	<3	<3 [<3]	<3	<3	<3
Methyl tert butyl ether (MTBE)	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	<10 J	<10	<10	<10	NA	<10	NA	<10 J	NA	<10	<10 J	<10	<10	<10	<10	<10	<10 [<10]	<10	<10	<10
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	<10	<10	<10	<10	NA	<10	NA	<10	NA	<10	<10	<10	<10	<10	<10	<10	<10 [<10]	<10	<10	<10
1,2,4-Trichlorobenzene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
1,3-Dichlorobenzene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
Cyclohexane	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
Methyl cyclohexane	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
Dibromochloromethane	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
Isopropyl benzene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		MW-12-18 28 - 33 12/19/12	P2-MW-01 31 - 36 08/29/11	P2-MW-01 31 - 36 10/10/11	P2-MW-01 31 - 36 12/18/12	P2-MW-02 31 - 41 09/07/11	P2-MW-02 31 - 41 10/10/11	P2-MW-02 31 - 41 10/19/11	P2-MW-02 31 - 41 12/19/12	P2-MW-03 27 - 32 08/31/11	P2-MW-03 27 - 32 10/10/11	P2-MW-03 27 - 32 12/19/12	P2-MW-04 26 - 36 08/25/11	P2-MW-04 26 - 36 10/05/11	P2-SB-03 14 - 19 09/16/11	P2-SB-03 14 - 19 12/20/12	P2-SB-06 24 - 29 09/06/11	P2-SB-06 24 - 29 12/20/12	P2-SB-20 8 - 13 08/31/11	P2-SB-20 8 - 13 12/20/12	SB-A1-RJ78 10 - 14 09/17/12
Units																					
Semivolatile Organics																					
1-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
2-Methyl-4,6-dinitrophenol	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) e	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	NA
2,4,6-Trichlorophenol	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	NA
2,4-Dichlorophenol	ug/L	<1 J	<1	<1	<1	NA	<1	NA	<1 J	<1	<1	<1 J	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	NA
2,4,5-Trichlorophenol	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	NA
2,4-Dimethylphenol	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	NA
2,4-Dinitrophenol	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	NA
2,4-Dinitrotoluene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	NA
2,6-Dinitrotoluene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	NA
2-Chloronaphthalene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	NA
2-Chlorophenol	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	NA
2-Methylnaphthalene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 J
2-Methylphenol	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	NA
2-Nitroaniline	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	NA
2-Nitrophenol	ug/L	<1 J	<1	<1	<1	NA	<1	NA	<1 J	<1	<1	<1 J	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	NA
3&4- Methylphenol	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	NA
3,3'-Dichlorobenzidine	ug/L	NA	<0.05	<0.05	NA	NA	<0.05	NA	NA	<0.05	<0.05	NA	<0.05 J	<0.05	<0.05	NA	<0.05	NA	<0.05	NA	NA
Naphthalene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 J
3-Nitroaniline	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	NA
4-Bromophenyl phenyl ether	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	NA
4-Chloro-3-methylphenol	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	NA
4-Chloroaniline	ug/L	<1 J	<2 J	<2	<1 J	NA	<2	NA	<1 J	<2 J	<2	<1 J	<2 J	<2	<2	<1	<2	<1 [<1]	<2 J	<1	NA
4-Chlorophenyl phenyl ether	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	NA
4-Nitroaniline	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	NA
4-Nitrophenol	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	NA
Anthracene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 J
Acenaphthene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
Acenaphthylene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	<1
Acetophenone	ug/L	<1 J	<1	<1	<1	NA	<1	NA	<1 J	<1	<1	<1 J	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	NA
Atrazine	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	NA
Benzaldehyde	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1 J	<1 [<1]	<1	<1	NA
Benzo(a)anthracene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 J
Benzo(a)pyrene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 J
Benzo(b)fluoranthene	ug/L	R	<1	<1	<1	NA	<1	NA	R	<1	<1	R	<1 J	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 J
Benzo(g,h,i)perylene	ug/L	<1	<1	<1	<1	NA	<1	NA	<1	<1	<1	<1	<1 J	<1	<1	<1	<1 J	<1 [<1]	<1	<1	<1 J
Benzo(k)fluoranthene	ug/L	<1	<1	<1	<1	NA	<1	NA	R	<1	<1	R	<								

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		MW-12-18 28 - 33 12/19/12	P2-MW-01 31 - 36 08/29/11	P2-MW-01 31 - 36 10/10/11	P2-MW-01 31 - 36 12/18/12	P2-MW-02 31 - 41 09/07/11	P2-MW-02 31 - 41 10/10/11	P2-MW-02 31 - 41 10/19/11	P2-MW-02 31 - 41 12/19/12	P2-MW-03 27 - 32 08/31/11	P2-MW-03 27 - 32 10/10/11	P2-MW-03 27 - 32 12/19/12	P2-MW-04 26 - 36 08/25/11	P2-MW-04 26 - 36 10/05/11	P2-SB-03 14 - 19 09/16/11	P2-SB-03 14 - 19 12/20/12	P2-SB-06 24 - 29 09/06/11	P2-SB-06 24 - 29 12/20/12	P2-SB-20 8 - 13 08/31/11	P2-SB-20 8 - 13 12/20/12	SB-A1-RJ78 10 - 14 09/17/12
	Units																				
Semivolatile Organics-Filtered																					
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) e	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	R	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	R	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	2	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	R	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:			MW-12-18 28 - 33 12/19/12	P2-MW-01 31 - 36 08/29/11	P2-MW-01 31 - 36 10/10/11	P2-MW-01 31 - 36 12/18/12	P2-MW-02 31 - 41 09/07/11	P2-MW-02 31 - 41 10/10/11	P2-MW-02 31 - 41 10/19/11	P2-MW-02 31 - 41 12/19/12	P2-MW-03 27 - 32 08/31/11	P2-MW-03 27 - 32 10/10/11	P2-MW-03 27 - 32 12/19/12	P2-MW-04 26 - 36 08/25/11	P2-MW-04 26 - 36 10/05/11	P2-SB-03 14 - 19 09/16/11	P2-SB-03 14 - 19 12/20/12	P2-SB-06 24 - 29 09/06/11	P2-SB-06 24 - 29 12/20/12	P2-SB-20 8 - 13 08/31/11	P2-SB-20 8 - 13 12/20/12	SB-A1-RJ78 10 - 14 09/17/12
Units																						
PCBs																						
Aroclor-1016 (PCB-1016)	ug/L	<0.05	<0.05	<0.05	<0.05	NA	<0.05	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05	NA	<0.05 [<0.05]	<0.05	<0.05	NA
Aroclor-1221 (PCB-1221)	ug/L	<0.1	<0.05	<0.05	<0.1	NA	<0.05	NA	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	NA	<0.1	NA	<0.1 [<0.1]	<0.05	<0.1	NA
Aroclor-1232 (PCB-1232)	ug/L	<0.1	<0.05	<0.05	<0.1	NA	<0.05	NA	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	NA	<0.1	NA	<0.1 [<0.1]	<0.05	<0.1	NA
Aroclor-1242 (PCB-1242)	ug/L	<0.1	<0.05	<0.05	<0.1	NA	<0.05	NA	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	NA	<0.1	NA	<0.1 [<0.1]	<0.05	<0.1	NA
Aroclor-1248 (PCB-1248)	ug/L	<0.1	<0.05	<0.05	<0.1	NA	<0.05	NA	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	NA	<0.1	NA	<0.1 [<0.1]	<0.05	<0.1	NA
Aroclor-1254 (PCB-1254)	ug/L	<0.1	<0.05	<0.05	<0.1	NA	<0.05	NA	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	NA	<0.1	NA	<0.1 [<0.1]	<0.05	<0.1	NA
Aroclor-1260 (PCB-1260)	ug/L	<0.05	<0.05	<0.05	<0.05	NA	<0.05	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05	NA	<0.05 [<0.05]	<0.05	<0.05	NA
Total PCBs	ug/L	ND	<0.05	<0.05	ND	NA	<0.05	NA	ND	<0.05	<0.05	ND	ND	<0.05	<0.05	NA	ND	NA	ND [ND]	<0.05	ND	NA
PCBs-Filtered																						
Total PCBs (dissolved)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																						
Antimony	mg/L	<0.002	<0.005	<0.002	<0.002	<0.005 [<0.005]	<0.002	NA	<0.002	<0.005	<0.002	<0.002	<0.002	<0.005	<0.002	NA	<0.002	<0.005	<0.002 [<0.002]	<0.005	<0.002	NA
Arsenic	mg/L	<0.002	0.009	<0.002	<0.002	0.0327 [0.0326] ^{ab}	0.009	NA	0.002	0.007	0.007	0.009	0.009	0.0023	0.003	NA	0.028 ^{ab}	0.0183 ^{ab}	<0.002 [<0.002]	0.001	0.005	NA
Barium	mg/L	0.255	1.15	0.932	0.080	0.237 [0.235]	0.213	NA	0.121	0.435	0.408	0.407	0.407	0.516	0.567	NA	0.226	0.876	0.091 [0.096]	0.147	0.032	NA
Beryllium	mg/L	NA	0.0006	<0.001	NA	0.0008 [0.0006]	<0.001	NA	NA	0.0006	<0.001	NA	0.0006	<0.001	NA	NA	NA	0.0007	NA	0.0007	NA	NA
Boron	mg/L	0.04	0.04	<0.04	<0.04	0.069 [0.062]	0.05	NA	0.04	0.07	0.06	0.10	0.10	0.110	0.10	NA	0.05 J	0.444	0.69 J[0.7 J] ^a	0.35	0.24 J	NA
Cadmium	mg/L	<0.001	<0.0005	<0.001	<0.001	<0.0005 [<0.0005]	<0.001	NA	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	NA	<0.001	<0.0005	<0.001 [<0.001]	<0.0005	<0.001	NA
Chromium VI (hexavalent)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	<0.010	<0.005	<0.010	<0.010	0.058 [0.059]	<0.010	NA	0.026	<0.005	<0.010	<0.010	<0.010	<0.005	<0.010	NA	<0.010	<0.005	<0.010 [<0.01]	<0.005	<0.010	NA
Cobalt	mg/L	<0.010	<0.005	<0.010	<0.010	<0.005 [<0.005]	<0.010	NA	<0.010	<0.005	<0.010	<0.010	<0.010	<0.005	<0.010	NA	<0.010	<0.005	<0.010 [<0.01]	<0.005	<0.010	NA
Copper	mg/L	0.008	<0.0025	<0.002	0.010	<0.0025 [<0.0025]	<0.002	NA	0.005	<0.0025	0.005	0.009	0.009	<0.0025	<0.002	NA	<0.002	<0.0025	<0.002 [<0.002]	0.004	0.009	NA
Lead	mg/L	<0.002	0.018 ^a	<0.002	<0.002	0.0046 [<0.0025] ^a	<0.002	NA	<0.002	0.009 ^a	<0.002	0.005 ^a	0.0178 ^a	<0.002	<0.002	NA	<0.002	0.0150 ^a	<0.002 [<0.002]	0.018 ^a	0.003	NA
Manganese	mg/L	0.247 ^a	0.116 ^a	0.138 ^a	<0.010	0.061 [0.061] ^a	0.086 ^a	NA	0.273 ^a	0.155 ^a	0.135 ^a	0.269 ^a	0.118 ^a	0.132 ^a	NA	0.042	0.118 ^a	0.495 [0.495] ^a	0.177 ^a	0.029	NA	
Mercury	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001 [<0.0001]	<0.0001	NA	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	NA	<0.0001	<0.0001	<0.0001 [<0.0001]	<0.0001	<0.0001	NA
Nickel	mg/L	0.104 ^a	0.021	<0.010	<0.010	0.032 [0.031]	<0.010	NA	0.026	0.014	0.036	<0.010	<0.005	<0.010	NA	<0.010	0.006	<0.010 [<0.01]	<0.005	<0.010	NA	
Selenium	mg/L	<0.002	<0.005	<0.002	<0.002	<0.005 [<0.005]	<0.002	NA	<0.002	<0.005	<0.002	<0.002	<0.002	<0.005	<0.002	NA	<0.002	<0.005	<0.002 [<0.002]	<0.005	<0.002	NA
Silver	mg/L	<0.0002	<0.0005	<0.0002	<0.0002	<0.0005 [<0.0005]	<0.0002	NA	<0.0002	<0.0005	<0.0002	<0.0002	<0.0002	<0.0005	<0.0002	NA	<0.0002	<0.0005	<0.0002 [<0.0002]	<0.0005	<0.0002	NA
Thallium	mg/L	NA	0.0009	<0.002	NA	<0.0005 [<0.0005]	<0.002	NA	NA	<0.0005	<0.002	NA	0.0026 ^a	<0.002	NA	NA	<0.0005	NA	<0.0005	NA	NA	
Vanadium	mg/L	<0.002	<0.0025	<0.002	<0.002	<0.0025 [<0.0025]	<0.002	NA	<0.002	<0.0025	<0.002	0.008 ^a	<0.0025	<0.002	NA	<0.002	<0.0025	<0.002 [<0.002]	<0.0025	0.005 ^a	NA	
Zinc	mg/L	0.015	<0.005	<0.010	<0.010	<0.005 [<0.005]	<0.010	NA	<0.010	<0.005	0.01	0.017	<0.005	<0.010	NA	<0.010	<0.005	<0.010 [<0.01]	<0.005	<0.010	NA	
Inorganics-Filtered																						
Antimony (dissolved)	mg/L	<0.002	NA	<0.002	NA	NA	NA	<0.002	NA	<0.005	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (dissolved)	mg/L	<0.002	NA	<0.002	NA	NA	NA	0.002	NA	0.008	<0.002	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (dissolved)	mg/L	0.252	NA	0.908	NA	NA	NA	0.215	NA	0.445	0.371	0.363	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (dissolved)	mg/L	NA	NA	<0.001	NA	NA	NA	<0.001	NA	0.0005	<0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/L	<0.04	NA	<0.04	NA	NA	NA	0.05	NA	0.07	0.07	0.09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (dissolved)	mg/L	<0.001	NA	<0.001	NA	NA	NA	<0.001	NA	<0.0005	<0.001	<0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	<0.010	NA	<0.010	NA	NA	NA	<0.010	NA	<0.005	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (dissolved)	mg/L	<0.010	NA	<0.010	NA	NA	NA	<0.010	NA	<0.005	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (dissolved)	mg/L	<0.002	NA	0.003	NA	NA	NA	<0.002	NA	<0.0025	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (dissolved)	mg/L	<0.002	NA	<0.002	NA	NA	NA	<0.002	NA	0.007 ^a	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (dissolved)	mg/L	0.228 ^a	NA	0.133 ^a	NA	NA	NA	0.085 ^a	NA	0.143 ^a	0.126 ^a	0.113 ^a	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (dissolved)	mg/L	<0.0001	NA	NA	NA	NA	NA	<0.0001	NA	<0.0001	NA	<0.0001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (dissolved)	mg/L	0.102 ^a	NA	<0.010	NA	NA	NA	<0.010	NA	0.017	0.035	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (dissolved)	mg/L	<0.002	NA	<0.002	NA	NA	NA	<0.002	NA	<0.005	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (dissolved)	mg/L	<0.0002	NA	<0.0002	NA	NA	NA	<0.0002	NA	<0.0005	<0.0002	<0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (dissolved)	mg/L	NA	NA	<0.002	NA	NA	NA	<0.002	NA	<0.001	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (dissolved)	mg/L	<0.002	NA	<0.002	NA	NA	NA	<0.002	NA	<0.0025	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (dissolved)</																						

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		SB-A1-RQ78 11 - 15 06/07/12	SB-A1-RS78 10.5 - 11.5 05/17/12	SB-A1-RV74 15 - 16 05/17/12	SB-A1-RY78 17.5 - 18.5 05/18/12	SB-A2-OB52 11 - 15 11/07/12	SB-A2-OT59 16 - 20 09/13/12	SB-A2-OT74 12 - 16 09/13/12	SB-A2-OU52 15 - 19 11/07/12	SB-A2-OX62 17 - 21 09/05/12	SB-A2-OX70 21 - 25 09/05/12	SB-A2-OY56 20 - 24 09/13/12	SB-A2-PB80 10 - 14 09/25/12	SB-A2-PC52 25 - 29 11/08/12	SB-A2-PF80 10 - 14 09/25/12	SB-A2-PH76 10 - 14 11/08/12	SB-A4-MX47 5 - 9 11/07/12	SB-A4-MX58 8 - 12 06/05/12
	Units																	
Volatile Organics																		
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
1,2-Dibromoethane (Ethylene dibromide)	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
1,2-Dichlorobenzene	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
1,4-Dichlorobenzene	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
2-Hexanone	ug/L	<500	<20	<20	<20	<10 [<10]	<10 [<10]	<10	<10	<10	<10	<10	<200	<10	<100	<10	NA	<10
Acetone	ug/L	<500	<54 BJ	<65 BJ	<50	13 [16]	<10 [<10]	<10	11	<10	<10	<10	<200	16	<100	86	NA	<10
Bromodichloromethane	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
Bromoform	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
Bromomethane (Methyl bromide)	ug/L	<50	NA	NA	NA	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
Carbon disulfide	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
Carbon tetrachloride	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
Chlorobenzene	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
Chloroform (Trichloromethane)	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	10 Y	<1	NA	<1
Chloromethane (Methyl chloride)	ug/L	<50	<5.0	<5.0	<5.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	3	NA	<1
cis-1,3-Dichloropropene	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
Dichlorodifluoromethane (CFC-12)	ug/L	<50	NA	NA	NA	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
Methyl acetate	ug/L	<500	NA	NA	NA	<10 [<10]	<10 [<10]	<10	<10	<10	<10	<10	<200	<10	<100	<10	NA	<10
Methylene chloride	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
Styrene	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
trans-1,3-Dichloropropene	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
Trichlorofluoromethane (CFC-11)	ug/L	<50	NA	NA	NA	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
Trifluorotrichloroethane (Freon 113)	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
1,4-Dioxane	ug/L	<5 J	<5	<5	<5	<5 [<5]	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 J
1,1,1-Trichloroethane	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	140 ^b	<1	5	102 ^b	2	<20	<1	<10	<1	NA	<1
1,1,2,2-Tetrachloroethane	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
1,1,2-Trichloroethane	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
1,1-Dichloroethane	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	4	<1	<1	2	<1	<20	6	<10	<1	NA	<1
1,1-Dichloroethene	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	5	<1	<1	13 ^a	<1	<20	<1	<10	<1	NA	<1
1,2-Dichloroethane	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
cis-1,2-Dichloroethene	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
trans-1,2-Dichloroethene	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
Trichloroethene	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	3	<1	<20	<1	<10	<1	NA	<1
Tetrachloroethene	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	4 [4]	3	<1	361 D ^{ab}	225 D ^{ab}	243 D ^{ab}	<20	<1	<10	<1	NA	<1
Vinyl chloride	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
Chloroethane	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	7	NA	<1
Benzene	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	840 Y ^{abh}	<1	20 Y ^a	33 ^a	NA	<1
Ethylbenzene	ug/L	50 X ^b	13	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	1,320 Y ^{ab}	<1	180 Y ^{ab}	15	NA	<1
Toluene	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	1 [1]	<1	<1	<1	<1	<1	2,940 Y ^{ab}	<1	60 Y	4	NA	<1
o-Xylene	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	350 Y ^{ab}	<1	20 Y	17	NA	<1
m&p-Xylene	ug/L	<100	<4.0	<4.0	<4.0	<2 [<2]	<2 [<2]	<2	<2	<2	<2	<2	1,530 Y ^{ab}	<2	480 Y ^{ab}	26	NA	<2
Xylene (total)	ug/L	<150	<6	<6	<6	<3 [<3]	<3 [<3]	<3	<3	<3	<3	<3	1,880 ^{ab}	<3	500 ^{ab}	43 ^b	NA	<3
Methyl tert butyl ether (MTBE)	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	<500	<20	<20	<20	<10 [<10]	<10 [<10]	<10	<10	<10	<10	<10	<200	<10	<100	26	NA	<10
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	<500	<20	<20	<20	<10 [<10]	<10 [<10]	<10	<10	<10	<10	<10	<200	<10	<100	<10	NA	<10
1,2,4-Trichlorobenzene	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
1,2,4-Trimethylbenzene	ug/L	NA	<2.0	<2.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/L	NA	0.85 J	<2.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
1,3-Dichlorobenzene	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
Cyclohexane	ug/L	<50	1.4 J	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	20	NA	<1
Methyl cyclohexane	ug/L	<50	13	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	30 Y	<1	50 Y	8	NA	<1
Dibromochloromethane	ug/L	<50	<2.0	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<20	<1	<10	<1	NA	<1
Isopropyl benzene	ug/L	<50	11	<2.0	<2.0	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	50 Y ^{bh}	<1	40 Y ^{bh}	28	NA	<1
Naphthalene	ug/L	NA	38 ^b	<2.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		SB-A1-RQ78 11 - 15 06/07/12	SB-A1-RS78 10.5 - 11.5 05/17/12	SB-A1-RV74 15 - 16 05/17/12	SB-A1-RY78 17.5 - 18.5 05/18/12	SB-A2-OB52 11 - 15 11/07/12	SB-A2-OT59 16 - 20 09/13/12	SB-A2-OT74 12 - 16 09/13/12	SB-A2-OU52 15 - 19 11/07/12	SB-A2-OX62 17 - 21 09/05/12	SB-A2-OX70 21 - 25 09/05/12	SB-A2-OY56 20 - 24 09/13/12	SB-A2-PB80 10 - 14 09/25/12	SB-A2-PC52 25 - 29 11/08/12	SB-A2-PF80 10 - 14 09/25/12	SB-A2-PH76 10 - 14 11/08/12	SB-A4-MX47 5 - 9 11/07/12	SB-A4-MX58 8 - 12 06/05/12
	Units																	
Semivolatile Organics																		
1-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) e	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
2,4,6-Trichlorophenol	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
2,4-Dichlorophenol	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
2,4,5-Trichlorophenol	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
2,4-Dimethylphenol	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
2,4-Dinitrophenol	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
2,4-Dinitrotoluene	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
2,6-Dinitrotoluene	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
2-Chloronaphthalene	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
2-Chlorophenol	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
2-Methylnaphthalene	ug/L	36 ^b	170 J ^b	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
2-Methylphenol	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
2-Nitroaniline	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
2-Nitrophenol	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
3&4-Methylphenol	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
3,3'-Dichlorobenzidine	ug/L	<0.05	<0.06 J	<0.05	<0.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05
Naphthalene	ug/L	65 ^b	130 J ^b	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
3-Nitroaniline	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
4-Bromophenyl phenyl ether	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
4-Chloro-3-methylphenol	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
4-Chloroaniline	ug/L	<2 J	<20 J	<2	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2 J
4-Chlorophenyl phenyl ether	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
4-Nitroaniline	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
4-Nitrophenol	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Anthracene	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Acenaphthene	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Acenaphthylene	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Acetophenone	ug/L	<6	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Atrazine	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Benzaldehyde	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Benzo(a)anthracene	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Benzo(a)pyrene	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Benzo(b)fluoranthene	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Benzo(g,h,i)perylene	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Benzo(k)fluoranthene	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Biphenyl (1,1-Biphenyl)	ug/L	3	20 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
bis(2-Chloroethoxy)methane	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
bis(2-Chloroethyl)ether	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	<2	<20 J	<2	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2
Butyl benzylphthalate (BBP)	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Caprolactam	ug/L	<1	<110 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Carbazole	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Chrysene	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Dibenz(a,h)anthracene	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Dibenzofuran	ug/L	1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Diethyl phthalate	ug/L	<2	<20 J	<2	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2
Dimethyl phthalate	ug/L	<8 B	<20 J	4 J	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2
Di-n-butylphthalate (DBP)	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Di-n-octyl phthalate (DnOP)	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Fluoranthene	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Fluorene	ug/L	1 J	20 J ^b	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Hexachlorobenzene	ug/L	<0.05	<0.06 J	<0.05	<0.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05
Hexachlorobutadiene	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Hexachlorocyclopentadiene	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Hexachloroethane	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Indeno(1,2,3-cd)pyrene	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Isophorone	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Nitrobenzene	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
N-Nitrosodi-n-propylamine	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
N-Nitrosodiphenylamine	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Pentachlorophenol	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Phenanthrene	ug/L	<1	20 J ^b	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Phenol	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Pyrene	ug/L	<1	<10 J	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		SB-A1-RQ78 11 - 15 06/07/12	SB-A1-RS78 10.5 - 11.5 05/17/12	SB-A1-RV74 15 - 16 05/17/12	SB-A1-RY78 17.5 - 18.5 05/18/12	SB-A2-OB52 11 - 15 11/07/12	SB-A2-OT59 16 - 20 09/13/12	SB-A2-OT74 12 - 16 09/13/12	SB-A2-OU52 15 - 19 11/07/12	SB-A2-OX62 17 - 21 09/05/12	SB-A2-OX70 21 - 25 09/05/12	SB-A2-OY56 20 - 24 09/13/12	SB-A2-PB80 10 - 14 09/25/12	SB-A2-PC52 25 - 29 11/08/12	SB-A2-PF80 10 - 14 09/25/12	SB-A2-PH76 10 - 14 11/08/12	SB-A4-MX47 5 - 9 11/07/12	SB-A4-MX58 8 - 12 06/05/12
Units																		
Semivolatile Organics-Filtered																		
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) e	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		SB-A1-RQ78 11 - 15 06/07/12	SB-A1-RS78 10.5 - 11.5 05/17/12	SB-A1-RV74 15 - 16 05/17/12	SB-A1-RY78 17.5 - 18.5 05/18/12	SB-A2-OB52 11 - 15 11/07/12	SB-A2-OT59 16 - 20 09/13/12	SB-A2-OT74 12 - 16 09/13/12	SB-A2-OU52 15 - 19 11/07/12	SB-A2-OX62 17 - 21 09/05/12	SB-A2-OX70 21 - 25 09/05/12	SB-A2-OY56 20 - 24 09/13/12	SB-A2-PB80 10 - 14 09/25/12	SB-A2-PC52 25 - 29 11/08/12	SB-A2-PF80 10 - 14 09/25/12	SB-A2-PH76 10 - 14 11/08/12	SB-A4-MX47 5 - 9 11/07/12	SB-A4-MX58 8 - 12 06/05/12
	Units																	
PCBs																		
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs-Filtered																		
Total PCBs (dissolved)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																		
Antimony	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.004	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.349 ^a	NA	NA	NA	NA
Mercury	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered																		
Antimony (dissolved)	mg/L	<0.002	<0.002	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.002
Arsenic (dissolved)	mg/L	0.052 ^{ab}	0.018 ^{ab}	<0.002	0.002	NA	NA	NA	<0.001	NA	NA	NA	NA	0.002	NA	NA	NA	0.008
Barium (dissolved)	mg/L	0.167	0.153	0.460	0.296	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.053
Beryllium (dissolved)	mg/L	<0.001	<0.001	<0.001	<0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.001
Boron	mg/L	0.04	0.04	0.19	0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.06 J
Cadmium (dissolved)	mg/L	<0.001	<0.001	<0.001	<0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	<0.001
Chromium Total	mg/L	<0.010	<0.010	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.010
Cobalt (dissolved)	mg/L	<0.010	<0.010	0.021	<0.010	NA	NA	NA	<0.002	NA	NA	NA	NA	0.004	NA	NA	<0.002	<0.010
Copper (dissolved)	mg/L	<0.002	<0.002	0.003	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.002	<0.002
Lead (dissolved)	mg/L	<0.002	<0.002	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.002
Manganese (dissolved)	mg/L	0.235 ^a	0.341 ^a	1.83 ^a	0.761 ^a	NA	NA	NA	0.086 ^a	NA	NA	NA	NA	0.349 ^a	NA	NA	1.78 ^a	0.615 ^a
Mercury (dissolved)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0001
Nickel (dissolved)	mg/L	0.011	0.015	0.071	0.056	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.010
Selenium (dissolved)	mg/L	<0.002	<0.002	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	<0.002
Silver (dissolved)	mg/L	<0.0002	<0.0002	0.0002	<0.0002	NA	NA	NA	<0.0002	NA	NA	NA	NA	<0.0002	NA	NA	NA	<0.0002
Thallium (dissolved)	mg/L	<0.002	<0.002	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.002
Vanadium (dissolved)	mg/L	<0.002	<0.002	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.002
Zinc (dissolved)	mg/L	<0.010	<0.010	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01	<0.010

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID:		SB-A4-MY60	SB-A5.1-MC123	SB-A5.1-MG123	SB-A5.1-MI119	SB-A5.1-MI125	SB-A5.1-MT119	SB-A5.1-MT126	SB-A5.2-NE150*	SB-A5.2-NE157*	SB-A5.2-NJ145*	SB-A5.2-NJ145*	SB-A5.2-NJ162*	SB-A5.2-NO106*	SB-A5.2-NO156*	SB-A5.2-NR128*
Screen Interval(ft):		23 - 24	12 - 16	12 - 16	9 - 13	8 - 12	15 - 19	11 - 15	16 - 20	17 - 21	7 - 11	16.5 - 20.5	14.5 - 18.5	9 - 13	6 - 10	4 - 8
Date Collected:		05/18/12	06/05/12	06/05/12	06/05/12	06/05/12	06/06/12	06/06/12	05/09/12	05/09/12	05/08/12	05/08/12	05/07/12	05/03/12	05/09/12	05/02/12
	Units															
Volatile Organics																
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
1,2-Dibromoethane (Ethylene dibromide)	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
1,2-Dichlorobenzene	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
1,4-Dichlorobenzene	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
2-Hexanone	ug/L	<20	<10	<10	<10	<10	<10	<10	<20	<20	<20	<20	<20	<20	<20	<20 [<20]
Acetone	ug/L	<50	<10	<10	<10	<10	<10	<10	76 B	57 B	60 B	160 B	190 JB	<50	<50	<50 [<50]
Bromodichloromethane	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
Bromoform	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
Bromomethane (Methyl bromide)	ug/L	NA	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
Carbon tetrachloride	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
Chlorobenzene	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
Chloroform (Trichloromethane)	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
Chloromethane (Methyl chloride)	ug/L	<5.0	<1	<1	<1	<1	<1	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	15 [<5]
cis-1,3-Dichloropropene	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
Dichlorodifluoromethane (CFC-12)	ug/L	NA	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/L	NA	<10	<10	<10	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [2.6]
Styrene	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
trans-1,3-Dichloropropene	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
Trichlorofluoromethane (CFC-11)	ug/L	NA	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
1,4-Dioxane	ug/L	7	<5 J	13 J	<5 J	<5 J	6 J	<5 J	570 ^a	640 ^a	5 J	<5 J	60	<100	<5 J	<100 J [<100 J]
1,1,1-Trichloroethane	ug/L	<2.0	<1	<1	<1	1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	0.30 J	<2.0 [<2]
1,1,2,2-Tetrachloroethane	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.1 [<2]
1,1,2-Trichloroethane	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
1,1-Dichloroethane	ug/L	<2.0	2	<1	2	<1	<1	13	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	0.79 J	9.8 [9.8]
1,1-Dichloroethene	ug/L	<2.0	<1	<1	<1	<1	1	3	<2.0	0.48 J	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
1,2-Dichloroethane	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
cis-1,2-Dichloroethene	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
trans-1,2-Dichloroethene	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
Trichloroethene	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.4 [2.3]
Tetrachloroethene	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
Vinyl chloride	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
Chloroethane	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	120 J [120 J]
Benzene	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	1.3 J [1.2 J]
Ethylbenzene	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
Toluene	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	1.4 J [1.1 J]
o-Xylene	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	0.56 J [<2]
m&p-Xylene	ug/L	<4.0	<2	<2	<2	<2	<2	<2	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0 [<4]
Xylene (total)	ug/L	<6	<3	<3	<3	<3	<3	<3	<6	<6	<6	<6	<6	<6	<6	0.56 J [<6]
Methyl tert butyl ether (MTBE)	ug/L	<2.0	<1	<1	<1	<1	2	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	<20	<10	<10	<10	<10	<10	<10	<20	<20	<20	<20	<20	<20	<20	<20 [<20]
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	<20	<10	<10	<10	<10	<10	<10	<20	<20	<20	<20	<20	<20	<20	<20 [<20]
1,2,4-Trichlorobenzene	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
1,2,4-Trimethylbenzene	ug/L	<2.0	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
1,3,5-Trimethylbenzene	ug/L	<2.0	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
1,2-Dichloropropane	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
1,3-Dichlorobenzene	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
Cyclohexane	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	1.1 J [<2]
Methyl cyclohexane	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
Dibromochloromethane	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
Isopropyl benzene	ug/L	<2.0	<1	<1	<1	<1	<1	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]
Naphthalene	ug/L	<2.0	NA	NA	NA	NA	NA	NA	<2.0	10	<2.0	<2.0	<2.0	0.86 J	11	1.7 J [1.9 J]

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		SB-A4-MY60 23 - 24 05/18/12	SB-A5.1-MC123 12 - 16 06/05/12	SB-A5.1-MG123 12 - 16 06/05/12	SB-A5.1-MI119 9 - 13 06/05/12	SB-A5.1-MI125 8 - 12 06/05/12	SB-A5.1-MT119 15 - 19 06/06/12	SB-A5.1-MT126 11 - 15 06/06/12	SB-A5.2-NE150* 16 - 20 05/09/12	SB-A5.2-NE157* 17 - 21 05/09/12	SB-A5.2-NJ145* 7 - 11 05/08/12	SB-A5.2-NJ145* 16.5 - 20.5 05/08/12	SB-A5.2-NJ162* 14.5 - 18.5 05/07/12	SB-A5.2-NO106* 9 - 13 05/03/12	SB-A5.2-NO156* 6 - 10 05/09/12	SB-A5.2-NR128* 4 - 8 05/02/12
	Units															
Semivolatile Organics																
1-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/L	<1	<1	R	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) e	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
2,4,6-Trichlorophenol	ug/L	<1	<1	R	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
2,4-Dichlorophenol	ug/L	<1	<1	R	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<2	<1	<2 [<2]
2,4,5-Trichlorophenol	ug/L	<1	<1	R	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
2,4-Dimethylphenol	ug/L	<1	<1	R	<1	<1	<1	<1	<1	<1	<1	<1	<1	47	20	3 [3]
2,4-Dinitrophenol	ug/L	<1	<1	R	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
2,4-Dinitrotoluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
2,6-Dinitrotoluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
2-Chloronaphthalene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
2-Chlorophenol	ug/L	<1	<1	R	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
2-Methylnaphthalene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	3	<1	<1	<1	<2	<1	<2 [<2]
2-Methylphenol	ug/L	<1	<1	R	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
2-Nitroaniline	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
2-Nitrophenol	ug/L	<1	<1	R	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<2	<1	<2 [<2]
3&4-Methylphenol	ug/L	<1	<1	R	<1	<1	<1	<1	<1	<1	<1	<1	<1	3	1	3 [3]
3,3'-Dichlorobenzidine	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.06	<0.05 [<0.05]
Naphthalene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	9	<1	<1	<1	<2	6	<2 [<2]
3-Nitroaniline	ug/L	<1	<1 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
4-Bromophenyl phenyl ether	ug/L	<1	<1 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
4-Chloro-3-methylphenol	ug/L	<1	<1	R	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
4-Chloroaniline	ug/L	<2	<2 J	<2	<2 J	<2 J	<2	<2	<2	<2	<2	<2	<2	<4	<2	<4 [<4]
4-Chlorophenyl phenyl ether	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
4-Nitroaniline	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
4-Nitrophenol	ug/L	<1	<1	R	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
Anthracene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
Acenaphthene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	3	<1	<1	<1	<2	<1	<2 [<2]
Acenaphthylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
Acetophenone	ug/L	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<2	<1	<2 [<2]
Atrazine	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
Benzaldehyde	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
Benzo(a)anthracene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
Benzo(a)pyrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
Benzo(b)fluoranthene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
Benzo(g,h,i)perylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
Benzo(k)fluoranthene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
Biphenyl (1,1-Biphenyl)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
bis(2-Chloroethoxy)methane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
bis(2-Chloroethyl)ether	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<4	4	<4 [<4]
Butyl benzylphthalate (BBP)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
Caprolactam	ug/L	<1	4 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
Carbazole	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<2	<1	<2 [<2]
Chrysene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
Dibenz(a,h)anthracene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
Dibenzofuran	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<2	<1	<2 [<2]
Diethyl phthalate	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<4	<2	<4 [<4]
Dimethyl phthalate	ug/L	9	<2	<2	<2	<2	<2	<2	4	6	<2	<2	<2	<4	8	<4 [<4]
Di-n-butylphthalate (DBP)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
Di-n-octyl phthalate (DnOP)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<2	<1	<2 [<2]
Fluoranthene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
Fluorene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<2	<1	3 [3]
Hexachlorobenzene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.06	<0.05 [<0.05]
Hexachlorobutadiene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<2	<1	<2 [<2]
Hexachlorocyclopentadiene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
Hexachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<2	<1	<2 [<2]
Indeno(1,2,3-cd)pyrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
Isophorone	ug/L	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<2	<1	<2 [<2]
Nitrobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<2	<1	<2 [<2]
N-Nitrosodi-n-propylamine	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
N-Nitrosodiphenylamine	ug/L	<1	<1 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
Pentachlorophenol	ug/L	<1	<1	R	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]
Phenanthrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	4 ^b	<1	<1	<1	<2	<1	3 [3] ^b
Phenol	ug/L	<1	2	R	<1	<1	<1	<1	<1	<1	<1	<1	<1	21	3	3 [3]
Pyrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2 [<2]

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID:		SB-A4-MY60	SB-A5.1-MC123	SB-A5.1-MG123	SB-A5.1-MI119	SB-A5.1-MI125	SB-A5.1-MT119	SB-A5.1-MT126	SB-A5.2-NE150*	SB-A5.2-NE157*	SB-A5.2-NJ145*	SB-A5.2-NJ145*	SB-A5.2-NJ162*	SB-A5.2-NO106*	SB-A5.2-NO156*	SB-A5.2-NR128*
Screen Interval(ft):		23 - 24	12 - 16	12 - 16	9 - 13	8 - 12	15 - 19	11 - 15	16 - 20	17 - 21	7 - 11	16.5 - 20.5	14.5 - 18.5	9 - 13	6 - 10	4 - 8
Date Collected:		05/18/12	06/05/12	06/05/12	06/05/12	06/05/12	06/06/12	06/06/12	05/09/12	05/09/12	05/08/12	05/08/12	05/07/12	05/03/12	05/09/12	05/02/12
	Units															
Semivolatile Organics-Filtered																
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) e	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		SB-A4-MY60 23 - 24 05/18/12	SB-A5.1-MC123 12 - 16 06/05/12	SB-A5.1-MG123 12 - 16 06/05/12	SB-A5.1-MI119 9 - 13 06/05/12	SB-A5.1-MI125 8 - 12 06/05/12	SB-A5.1-MT119 15 - 19 06/06/12	SB-A5.1-MT126 11 - 15 06/06/12	SB-A5.2-NE150* 16 - 20 05/09/12	SB-A5.2-NE157* 17 - 21 05/09/12	SB-A5.2-NJ145* 7 - 11 05/08/12	SB-A5.2-NJ145* 16.5 - 20.5 05/08/12	SB-A5.2-NJ162* 14.5 - 18.5 05/07/12	SB-A5.2-NO106* 9 - 13 05/03/12	SB-A5.2-NO156* 6 - 10 05/09/12	SB-A5.2-NR128* 4 - 8 05/02/12
	Units															
PCBs																
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs-Filtered																
Total PCBs (dissolved)	ug/L	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	4 J [1.3 J] ^{abc}
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.6 [<0.05]
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.6 [<0.05]
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.6 [<0.05]
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	4 J [1.3 J] ^{abc}
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.6 [<0.05]
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.6 [<0.05]
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.6 [<0.05]
Inorganics																
Antimony	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered																
Antimony (dissolved)	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.004	<0.002	0.003 [0.003]
Arsenic (dissolved)	mg/L	0.006	0.030 ^{ab}	0.006	<0.002	<0.002	0.010	0.008	0.014 ^{ab}	<0.002	0.002	0.007	0.003	0.012 ^{ab}	0.003	0.016 [0.016] ^{ab}
Barium (dissolved)	mg/L	0.139	0.247	0.131	0.102	0.031	0.215	0.122	0.494	0.436	0.098	0.198	0.897 J	0.033	0.026	0.035 [0.034]
Beryllium (dissolved)	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001 [<0.001]
Boron	mg/L	0.13	0.39 J	0.95 J ^a	1.25 J ^a	0.21 J	0.27	0.56 ^a	0.45	0.31	0.07	0.07	0.09 J	0.50	0.11	0.20 [0.2]
Cadmium (dissolved)	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001 [<0.001]
Chromium Total	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010 [<0.01]
Cobalt (dissolved)	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.013	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010 [<0.01]
Copper (dissolved)	mg/L	<0.002	<0.002	<0.002	0.005	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.007	0.003	<0.002 [<0.002]
Lead (dissolved)	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002 [<0.002]
Manganese (dissolved)	mg/L	1.20 ^a	0.425 ^a	0.335 ^a	0.223 ^a	0.029	0.329 ^a	0.639 ^a	0.378 ^a	0.475 ^a	0.486 ^a	0.131 ^a	0.701 J ^a	0.164 ^a	0.072 ^a	<0.010 [<0.01]
Mercury (dissolved)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001 [<0.0001]
Nickel (dissolved)	mg/L	0.011	0.011	0.018	0.029	<0.010	0.011	0.011	0.025	0.023	<0.010	<0.010	0.025	<0.010	<0.010	<0.010 [<0.01]
Selenium (dissolved)	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002 [<0.002]
Silver (dissolved)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002 [<0.0002]
Thallium (dissolved)	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002 [<0.002]
Vanadium (dissolved)	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	0.002	0.011 [0.01] ^a
Zinc (dissolved)	mg/L	0.013	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.017	0.021	<0.010	<0.010	0.108	<0.010	<0.010	<0.010 [<0.01]

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID:		SB-A5.2-NV133*	SB-A5.2-OD154*	SB-A5.2-OG144*	SB-A5.2-OH162*	SB-A5.3-OC175	SB-A5.3-OQ168	SB-A5.3-OT127	SB-A5.3-OV163	SB-A5.3-OX124	SB-A5.3-OX132	SB-A5.3-OX180	SB-A5.3-PB172	SB-A5.3-PF159	SB-A5.3-PF159	SB-A5.4-LZ195
Screen Interval(ft):		12 - 13.68	9 - 13	5 - 9	17 - 21	5 - 9	6 - 10	8 - 12	3 - 7	8 - 12	5 - 9	1 - 5	11 - 15	3 - 7	10 - 14	4 - 8
Date Collected:		04/30/12	05/07/12	05/04/12	05/10/12	05/31/12	05/30/12	06/01/12	05/30/12	06/05/12	06/01/12	09/17/12	09/17/12	09/17/12	09/17/12	05/23/12
	Units															
Volatile Organics																
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1 J	<1 J	<1 J	<1 J	<2.0
1,2-Dibromoethane (Ethylene dibromide)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
1,2-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
1,4-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
2-Hexanone	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<10	<20	<10	<10	<10	<10	<20
Acetone	ug/L	<50	<50	330 J	110 JB	<50	<50	<50	<50	<10	<50	<10	<10	<10	<10	<50
Bromodichloromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
Bromoform	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1 J	<1 J	<1 J	<1 J	<2.0
Bromomethane (Methyl bromide)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	<1	<1	<1	NA
Carbon disulfide	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1 J	<1 J	<1 J	<2.0
Carbon tetrachloride	ug/L	<2.0	<2.0	<2.0	<2.0	0.68 J	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
Chlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
Chloroform (Trichloromethane)	ug/L	<2.0	<2.0	<2.0	<2.0	0.45 J	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
Chloromethane (Methyl chloride)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<1 J	<1 J	<1 J	<1 J	<5.0
cis-1,3-Dichloropropene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
Dichlorodifluoromethane (CFC-12)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1 J	<1 J	<1 J	<1 J	NA
Methyl acetate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<10	NA	<10 J	<10 J	<10 J	<10 J	NA
Methylene chloride	ug/L	<2.0	0.75 J	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
Styrene	ug/L	<2.0	<2.0	0.70 J	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
trans-1,3-Dichloropropene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
Trichlorofluoromethane (CFC-11)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	<1	<1	<1	NA
Trifluorotrichloroethane (Freon 113)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
1,4-Dioxane	ug/L	24	<100	<20 J	360 ^a	13	26 J	<20	74 J	<25 J	<20	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	8.2 J	6.2 J	<2.0	<2.0	<1	<2.0	133 J ^b	<1	<1	<1	<2.0
1,1,2,2-Tetrachloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
1,1,2-Trichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
1,1-Dichloroethane	ug/L	9.2	7.7	<2.0	0.96 J	2.7 J	19	1.6 J	7.8	52	<2.0	95	<1	<1	<1	<2.0
1,1-Dichloroethene	ug/L	6.2	<2.0	<2.0	3.8	<2.0	<2.0	<2.0	<2.0	<1	<2.0	5	<1	<1	<1	<2.0
1,2-Dichloroethane	ug/L	5.3 ^a	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
cis-1,2-Dichloroethene	ug/L	6.5	<2.0	<2.0	<2.0	<2.0	<2.0	5.0	5.0	<1	<2.0	<1	<1	<1	<1	<2.0
trans-1,2-Dichloroethene	ug/L	0.97 J	<2.0	<2.0	<2.0	<2.0	<2.0	0.70 J	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
Trichloroethene	ug/L	6.4 ^a	<2.0	<2.0	<2.0	<2.0	<2.0	0.96 J	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
Tetrachloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	1.3 J	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1 J	<1 J	<1 J	<1 J	<2.0
Chloroethane	ug/L	800 E ^a	<2.0	<2.0	<2.0	<2.0	<2.0	25	14 J	81	<2.0	<1	<1	<1	<1	<2.0
Benzene	ug/L	0.43 J	<2.0	0.61 J	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
Ethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
Toluene	ug/L	4.8	<2.0	0.74 J	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
o-Xylene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
m&p-Xylene	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<2	<4.0	<2	<2	<2	<2	<4.0
Xylene (total)	ug/L	<6	<6	<6	<6	<6	<6	<6	<6	<3	<6	<3	<3	<3	<3	<6
Methyl tert butyl ether (MTBE)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1 J	<1	<1	<1	<2.0
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<10	<20	<10	<10	<10	<10	<20
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	<20	<20	<20	<20	<20 J	<20 J	<20	<20 J	<10	<20	<10	<10	<10	<10	<20
1,2,4-Trichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
1,2,4-Trimethylbenzene	ug/L	<2.0	<2.0	0.66 J	<2.0	<2.0	<2.0	<2.0	<2.0	NA	<2.0	NA	NA	NA	NA	<2.0
1,3,5-Trimethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA	<2.0	NA	NA	NA	NA	<2.0
1,2-Dichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
1,3-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
Cyclohexane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
Methyl cyclohexane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
Dibromochloromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
Isopropyl benzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<1	<1	<1	<1	<2.0
Naphthalene	ug/L	<2.0	<2.0	7.4	<2.0	<2.0	<2.0	<2.0	<2.0	NA	<2.0	NA	NA	NA	NA	<2.0

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		SB-A5.2-NV133*	SB-A5.2-OD154*	SB-A5.2-OG144*	SB-A5.2-OH162*	SB-A5.3-OC175	SB-A5.3-OQ168	SB-A5.3-OT127	SB-A5.3-OV163	SB-A5.3-OX124	SB-A5.3-OX132	SB-A5.3-OX180	SB-A5.3-PB172	SB-A5.3-PF159	SB-A5.3-PF159	SB-A5.4-LZ195
		12 - 13.68	9 - 13	5 - 9	17 - 21	5 - 9	6 - 10	8 - 12	3 - 7	8 - 12	5 - 9	1 - 5	11 - 15	3 - 7	10 - 14	4 - 8
	Units	04/30/12	05/07/12	05/04/12	05/10/12	05/31/12	05/30/12	06/01/12	05/30/12	06/05/12	06/01/12	09/17/12	09/17/12	09/17/12	09/17/12	05/23/12
Semivolatile Organics																
1-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/L	<1 J	<1	3	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) e	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
2,4,6-Trichlorophenol	ug/L	<1 J	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1 J	NA	NA	<1
2,4-Dichlorophenol	ug/L	<1 J	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
2,4,5-Trichlorophenol	ug/L	<1 J	2	1	<1	<1	<1	<1	<4	<1	<1	<1	<1 J	NA	NA	<1
2,4-Dimethylphenol	ug/L	58 J	<1	9	<1	<1	<1	<1	<4	8	2	<1	<1	NA	NA	<1
2,4-Dinitrophenol	ug/L	<1 J	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
2,4-Dinitrotoluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
2,6-Dinitrotoluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
2-Chloronaphthalene	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
2-Chlorophenol	ug/L	<1 J	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
2-Methylnaphthalene	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
2-Methylphenol	ug/L	3 J	<1	3	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
2-Nitroaniline	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
2-Nitrophenol	ug/L	<1 J	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
3&4-Methylphenol	ug/L	<1 J	<1	4	<1	<1	<1	<1	<4	11	<1	<1	<1	NA	NA	<1
3,3'-Dichlorobenzidine	ug/L	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	NA	NA	<0.05
Naphthalene	ug/L	<1	<1	4	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
3-Nitroaniline	ug/L	<1 J	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
4-Bromophenyl phenyl ether	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
4-Chloro-3-methylphenol	ug/L	<1 J	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
4-Chloroaniline	ug/L	<1 J	<2	<2	<2	<2	<2	<2	<8	<2 J	<2	<2	<2	NA	NA	<2
4-Chlorophenyl phenyl ether	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
4-Nitroaniline	ug/L	<1 J	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
4-Nitrophenol	ug/L	<1 J	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Anthracene	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Acenaphthene	ug/L	<1 J	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Acenaphthylene	ug/L	<1 J	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Acetophenone	ug/L	<1 J	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Atrazine	ug/L	<1 J	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Benzaldehyde	ug/L	<1 J	<1	2	<1	<1	<1	<1	<4	<1	<2	<1	<1	NA	NA	<1
Benzo(a)anthracene	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Benzo(a)pyrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Benzo(b)fluoranthene	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Benzo(g,h,i)perylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Benzo(k)fluoranthene	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Biphenyl (1,1-Biphenyl)	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
bis(2-Chloroethoxy)methane	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
bis(2-Chloroethyl)ether	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	<1	<2	<2	<2	<2	6	<2	<8	<2	<2	<2	<2	NA	NA	5
Butyl benzylphthalate (BBP)	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Caprolactam	ug/L	<1 J	<1	<1	<1	<1	<1	<1	<4	<1	<1	<6 B	<8 B	NA	NA	<1
Carbazole	ug/L	<1	<1	1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Chrysene	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Dibenz(a,h)anthracene	ug/L	<2	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Dibenzofuran	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Diethyl phthalate	ug/L	<1	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	NA	NA	<2
Dimethyl phthalate	ug/L	<1	<2	<2	10	<2	3	<2	<8	<2	<2	<2	<2	NA	NA	<2
Di-n-butylphthalate (DBP)	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Di-n-octyl phthalate (DnOP)	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Fluoranthene	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Fluorene	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Hexachlorobenzene	ug/L	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	NA	NA	<0.05
Hexachlorobutadiene	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Hexachlorocyclopentadiene	ug/L	<1 J	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Hexachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Indeno(1,2,3-cd)pyrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Isophorone	ug/L	<1 J	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Nitrobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
N-Nitrosodi-n-propylamine	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
N-Nitrosodiphenylamine	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Pentachlorophenol	ug/L	<1 J	<1	4 ^{ab}	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Phenanthrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1
Phenol	ug/L	<1 J	<1	124	<1	<1	<1	<1	<4	<1	<1	1	4	NA	NA	<1
Pyrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	NA	NA	<1

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID:		SB-A5.2-NV133*	SB-A5.2-OD154*	SB-A5.2-OG144*	SB-A5.2-OH162*	SB-A5.3-OC175	SB-A5.3-OQ168	SB-A5.3-OT127	SB-A5.3-OV163	SB-A5.3-OX124	SB-A5.3-OX132	SB-A5.3-OX180	SB-A5.3-PB172	SB-A5.3-PF159	SB-A5.3-PF159	SB-A5.4-LZ195
Screen Interval(ft):		12 - 13.68	9 - 13	5 - 9	17 - 21	5 - 9	6 - 10	8 - 12	3 - 7	8 - 12	5 - 9	1 - 5	11 - 15	3 - 7	10 - 14	4 - 8
Date Collected:		04/30/12	05/07/12	05/04/12	05/10/12	05/31/12	05/30/12	06/01/12	05/30/12	06/05/12	06/01/12	09/17/12	09/17/12	09/17/12	09/17/12	05/23/12
	Units															
Semivolatile Organics-Filtered																
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) e	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		SB-A5.2-NV133*	SB-A5.2-OD154*	SB-A5.2-OG144*	SB-A5.2-OH162*	SB-A5.3-OC175	SB-A5.3-OQ168	SB-A5.3-OT127	SB-A5.3-OV163	SB-A5.3-OX124	SB-A5.3-OX132	SB-A5.3-OX180	SB-A5.3-PB172	SB-A5.3-PF159	SB-A5.3-PF159	SB-A5.4-LZ195
		12 - 13.68	9 - 13	5 - 9	17 - 21	5 - 9	6 - 10	8 - 12	3 - 7	8 - 12	5 - 9	1 - 5	11 - 15	3 - 7	10 - 14	4 - 8
	Units	04/30/12	05/07/12	05/04/12	05/10/12	05/31/12	05/30/12	06/01/12	05/30/12	06/05/12	06/01/12	09/17/12	09/17/12	09/17/12	09/17/12	05/23/12
PCBs																
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs-Filtered																
Total PCBs (dissolved)	ug/L	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1016 (PCB-1016)	ug/L	NA	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	<0.05	<0.05	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	<0.05	<0.05	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	<0.05	<0.05	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	<0.05	<0.05	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	<0.05	<0.05	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																
Antimony	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered																
Antimony (dissolved)	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	NA	NA	<0.002
Arsenic (dissolved)	mg/L	0.017^{ab}	0.004	<0.002	0.007	<0.002	<0.002	0.004	0.080^{ab}	0.015^{ab}	0.027^{ab}	NA	NA	NA	NA	<0.002
Barium (dissolved)	mg/L	0.633	0.064 J	0.215	0.132	0.049	0.029	0.139	0.036	0.098	0.042	NA	NA	NA	NA	0.041
Beryllium (dissolved)	mg/L	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	NA	NA	NA	<0.001
Boron	mg/L	0.27	0.56 J^a	0.88^a	0.48	0.16	0.38	0.04	0.20	0.34 J	0.13	NA	NA	NA	NA	0.11
Cadmium (dissolved)	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	NA	NA	NA	<0.001
Chromium Total	mg/L	0.046	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA	NA	NA	NA	<0.010
Cobalt (dissolved)	mg/L	0.032	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA	NA	NA	NA	<0.010
Copper (dissolved)	mg/L	0.166^b	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.005	<0.002	<0.002	NA	NA	NA	NA	<0.002
Lead (dissolved)	mg/L	0.041^a	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.006^a	<0.002	<0.002	NA	NA	NA	NA	<0.002
Manganese (dissolved)	mg/L	2.67^a	0.847 J^a	<0.010	0.352^a	0.060^a	0.034	0.490^a	0.012	0.506^a	0.323^a	NA	NA	NA	NA	0.142^a
Mercury (dissolved)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	NA	NA	NA	NA	<0.0001
Nickel (dissolved)	mg/L	0.086	<0.010	<0.010	0.021	0.011	0.011	<0.010	<0.010	<0.010	<0.010	NA	NA	NA	NA	<0.010
Selenium (dissolved)	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	NA	NA	NA	<0.002
Silver (dissolved)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	NA	NA	NA	NA	<0.0002
Thallium (dissolved)	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	NA	NA	NA	<0.002
Vanadium (dissolved)	mg/L	0.080^{ab}	<0.002	0.007^a	<0.002	<0.002	<0.002	<0.002	0.012^a	<0.002	<0.002	NA	NA	NA	NA	<0.002
Zinc (dissolved)	mg/L	0.162	0.022	<0.010	0.021	<0.010	<0.010	<0.010	0.013	<0.010	<0.010	NA	NA	NA	NA	<0.010

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		SB-A5.4-MB197 5 - 9 05/21/12	SB-A5.4-MD195 4 - 8 05/22/12	SB-A5.5-NL193 4.5 - 8.5 05/29/12	SB-A5.5-NM187 5 - 9 05/24/12	SB-A5.5-NO196 5 - 9 05/25/12	SB-A5.5-NQ185 5 - 9 05/24/12	SB-A5.5-NT196 5 - 9 05/25/12	SB-A5.5-NU185 5 - 9 05/24/12	SB-A5.5-NW194 5 - 9 05/29/12	SB-A5.5-NW195 5 - 9 05/25/12	SB-A5.5-NX188 3.5 - 7.5 05/24/12	SB-A8-LC158 6 - 10 05/17/12	SB-A8-LF155A 6 - 10 05/23/12	SB-A8-LF161 4 - 8 05/17/12	SB-A8-LK166 4 - 8 05/17/12
Units																
Volatile Organics																
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dibromoethane (Ethylene dibromide)	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	0.34 J	<2.0	<2.0	<2.0	<2.0	<2.0
1,4-Dichlorobenzene	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	0.46 J	0.58 J	<2.0	<2.0	<2.0	<2.0	<2.0
2-Hexanone	ug/L	<20	<20 [<20]	<20 [<20]	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Acetone	ug/L	<50	<50 [<50]	<50 [<50]	<50	<50	<50	<50	<50	<50	<50	<50	<50 J	<50	JB	<50 J
Bromodichloromethane	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromomethane (Methyl bromide)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	0.80 J	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroform (Trichloromethane)	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloromethane (Methyl chloride)	ug/L	<5.0	<5.0 [<5]	<5.0 [<5]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dichlorodifluoromethane (CFC-12)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
trans-1,3-Dichloropropene	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trichlorofluoromethane (CFC-11)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,4-Dioxane	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	14	<2.0	2.5	<2.0	<2.0	1.1 J	1.6 J	0.71 J	1.1 J	4.5
1,1,2,2-Tetrachloroethane	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,2-Trichloroethane	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	0.79 J	<2.0	2.2	<2.0	4.3	1.8 J	2.4	0.61 J	0.80 J	<2.0	<2.0	<2.0
1,1-Dichloroethene	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	1.7 J	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethane	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
cis-1,2-Dichloroethene	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	8.5	1.7 J	<2.0	<2.0	<2.0	<2.0	<2.0
trans-1,2-Dichloroethene	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	0.47 J	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trichloroethene	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Tetrachloroethene	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	1.2 J	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Vinyl chloride	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroethane	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Benzene	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	0.24 J	0.26 J	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	ug/L	<2.0	<2.0 [0.38 J]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	0.35 J	<2.0	2.8	0.27 J
o-Xylene	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
m&p-Xylene	ug/L	<4.0	<4.0 [<4]	<4.0 [<4]	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Xylene (total)	ug/L	<6	<6 [<6]	<6 [<6]	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
Methyl tert butyl ether (MTBE)	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	<20	<20 [<20]	<20 [<20]	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	<20	<20 [<20]	<20 [<20]	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
1,2,4-Trichlorobenzene	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2,4-Trimethylbenzene	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,3,5-Trimethylbenzene	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloropropane	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,3-Dichlorobenzene	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	0.37 J	0.39 J	<2.0	<2.0	<2.0	<2.0	<2.0
Cyclohexane	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methyl cyclohexane	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dibromochloromethane	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Isopropyl benzene	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Napthalene	ug/L	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		SB-A5.4-MB197 5 - 9 05/21/12	SB-A5.4-MD195 4 - 8 05/22/12	SB-A5.5-NL193 4.5 - 8.5 05/29/12	SB-A5.5-NM187 5 - 9 05/24/12	SB-A5.5-NO196 5 - 9 05/25/12	SB-A5.5-NQ185 5 - 9 05/24/12	SB-A5.5-NT196 5 - 9 05/25/12	SB-A5.5-NU185 5 - 9 05/24/12	SB-A5.5-NW194 5 - 9 05/29/12	SB-A5.5-NW195 5 - 9 05/25/12	SB-A5.5-NX188 3.5 - 7.5 05/24/12	SB-A8-LC158 6 - 10 05/17/12	SB-A8-LF155A 6 - 10 05/23/12	SB-A8-LF161 4 - 8 05/17/12	SB-A8-LK166 4 - 8 05/17/12
Units																
Semivolatile Organics																
1-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) e	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dichlorophenol	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4,5-Trichlorophenol	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dimethylphenol	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	2	<1	1	<1	<1	<1	<1	<1
2,4-Dinitrophenol	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dinitrotoluene	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,6-Dinitrotoluene	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chloronaphthalene	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorophenol	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylnaphthalene	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylphenol	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Nitroaniline	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Nitrophenol	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
3&4-Methylphenol	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
3,3'-Dichlorobenzidine	ug/L	<0.05	<0.06 [<0.05]	<0.05 [<0.06]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 J	<0.06	<0.06	<0.05	<0.05	<0.06
Naphthalene	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
3-Nitroaniline	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Bromophenyl phenyl ether	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloroaniline	ug/L	<2	<2 [<2]	<2 [<2]	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
4-Chlorophenyl phenyl ether	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitroaniline	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitrophenol	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Anthracene	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Acenaphthene	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Acenaphthylene	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Acetophenone	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Atrazine	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzaldehyde	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)pyrene	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(b)fluoranthene	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(k)fluoranthene	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Biphenyl (1,1-Biphenyl)	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bis(2-Chloroethoxy)methane	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bis(2-Chloroethyl)ether	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	<2	<2 [<2]	<2 [<2]	<2	<2	<2	<2	<2	<2	7 ^a	<2	<2	<2	<2	<2
Butyl benzylphthalate (BBP)	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Caprolactam	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbazole	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chrysene	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibenz(a,h)anthracene	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzofuran	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl phthalate	ug/L	<2	<2 [<2]	<2 [<2]	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dimethyl phthalate	ug/L	3	<2 [2]	<2 [3]	<2	<2	<2	<2	<2	3	<2	<2	11	<2	4	8
Di-n-butylphthalate (DBP)	ug/L	<1	<1 [<1]	<1 [<1]	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Di-n-octyl phthalate (DnOP)	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Fluoranthene	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Fluorene	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2
Hexachlorobenzene	ug/L	<0.05	<0.06 [<0.05]	<0.05 [<0.06]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.06	<0.06	<0.05	<0.05	<0.06
Hexachlorobutadiene	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachloroethane	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Indeno(1,2,3-cd)pyrene	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isophorone	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nitrobenzene	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
N-Nitrosodi-n-propylamine	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
N-Nitrosodiphenylamine	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Pentachlorophenol	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenanthrene	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenol	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2
Pyrene	ug/L	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		SB-A5.4-MB197 5 - 9 05/21/12	SB-A5.4-MD195 4 - 8 05/22/12	SB-A5.5-NL193 4.5 - 8.5 05/29/12	SB-A5.5-NM187 5 - 9 05/24/12	SB-A5.5-NO196 5 - 9 05/25/12	SB-A5.5-NQ185 5 - 9 05/24/12	SB-A5.5-NT196 5 - 9 05/25/12	SB-A5.5-NU185 5 - 9 05/24/12	SB-A5.5-NW194 5 - 9 05/29/12	SB-A5.5-NW195 5 - 9 05/25/12	SB-A5.5-NX188 3.5 - 7.5 05/24/12	SB-A8-LC158 6 - 10 05/17/12	SB-A8-LF155A 6 - 10 05/23/12	SB-A8-LF161 4 - 8 05/17/12	SB-A8-LK166 4 - 8 05/17/12
Semivolatile Organics-Filtered																
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) e	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		SB-A5.4-MB197 5 - 9 05/21/12	SB-A5.4-MD195 4 - 8 05/22/12	SB-A5.5-NL193 4.5 - 8.5 05/29/12	SB-A5.5-NM187 5 - 9 05/24/12	SB-A5.5-NO196 5 - 9 05/25/12	SB-A5.5-NQ185 5 - 9 05/24/12	SB-A5.5-NT196 5 - 9 05/25/12	SB-A5.5-NU185 5 - 9 05/24/12	SB-A5.5-NW194 5 - 9 05/29/12	SB-A5.5-NW195 5 - 9 05/25/12	SB-A5.5-NX188 3.5 - 7.5 05/24/12	SB-A8-LC158 6 - 10 05/17/12	SB-A8-LF155A 6 - 10 05/23/12	SB-A8-LF161 4 - 8 05/17/12	SB-A8-LK166 4 - 8 05/17/12
	Units															
PCBs																
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs-Filtered																
Total PCBs (dissolved)	ug/L	ND	ND [ND]	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	NA	ND	ND
Aroclor-1016 (PCB-1016)	ug/L	<0.05	<0.05 [<0.05]	NA	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05	<0.05	<0.05	NA	<0.05	<0.1
Aroclor-1221 (PCB-1221)	ug/L	<0.05	<0.05 [<0.05]	NA	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05	<0.05	<0.05	NA	<0.05	<0.1
Aroclor-1232 (PCB-1232)	ug/L	<0.05	<0.05 [<0.05]	NA	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05	<0.05	<0.05	NA	<0.05	<0.1
Aroclor-1242 (PCB-1242)	ug/L	<0.05	<0.05 [<0.05]	NA	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05	<0.05	<0.05	NA	<0.05	<0.1
Aroclor-1248 (PCB-1248)	ug/L	<0.05	<0.05 [<0.05]	NA	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05	<0.05	<0.05	NA	<0.05	<0.1
Aroclor-1254 (PCB-1254)	ug/L	<0.05	<0.05 [<0.05]	NA	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05	<0.05	<0.05	NA	<0.05	<0.1
Aroclor-1260 (PCB-1260)	ug/L	<0.05	<0.05 [<0.05]	NA	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05	<0.05	<0.05	NA	<0.05	<0.1
Inorganics																
Antimony	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered																
Antimony (dissolved)	mg/L	<0.002	0.002 [0.002]	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	0.003	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002
Arsenic (dissolved)	mg/L	<0.002	<0.002 [<0.002]	<0.002 [<0.002]	0.003	0.011^{ab}	<0.002	0.016^{ab}	0.010	0.220^{ab}	0.069^{ab}	0.004	<0.002	<0.002	0.004	<0.002
Barium (dissolved)	mg/L	0.059	0.031 [0.029]	0.056 [0.053]	0.069	0.061	0.020	0.079	0.026	0.056	0.048	0.012	0.034	0.047	<0.010	0.043
Beryllium (dissolved)	mg/L	<0.001	<0.001 [<0.001]	<0.001 [<0.001]	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/L	0.13	0.11 [0.11]	0.11 [0.11]	0.11	0.11	0.11	0.09	0.18	0.13	0.10	0.11	0.20	0.06	0.09	0.23
Cadmium (dissolved)	mg/L	<0.001	<0.001 [<0.001]	<0.001 [<0.001]	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium Total	mg/L	<0.010	<0.010 [<0.01]	<0.010 [<0.01]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cobalt (dissolved)	mg/L	<0.010	<0.010 [<0.01]	<0.010 [<0.01]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Copper (dissolved)	mg/L	<0.002	<0.002 [<0.002]	<0.002 [<0.002]	<0.002	<0.002	0.002	<0.002	0.003	<0.002	<0.002	<0.002	0.004	<0.002	<0.002	<0.002
Lead (dissolved)	mg/L	<0.002	<0.002 [<0.002]	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Manganese (dissolved)	mg/L	0.186^a	0.096 J [0.043 J]^a	0.018 J [0.104 J]	0.049	1.46 J^a	0.052^a	1.22 J^a	0.055^a	1.26^a	0.736 J^a	0.057^a	0.114^a	0.028	<0.010	0.127^a
Mercury (dissolved)	mg/L	<0.0001	<0.0001 [<0.0001]	<0.0001 [<0.0001]	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Nickel (dissolved)	mg/L	<0.010	<0.010 [<0.01]	<0.010 [<0.01]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Selenium (dissolved)	mg/L	<0.002	0.002 [<0.002]	<0.002 [<0.002]	0.006^b	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Silver (dissolved)	mg/L	<0.0002	<0.0002 [<0.0002]	<0.0002 [<0.0002]	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Thallium (dissolved)	mg/L	<0.002	<0.002 [<0.002]	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Vanadium (dissolved)	mg/L	<0.002	<0.002 [<0.002]	0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.006^a	<0.002
Zinc (dissolved)	mg/L	<0.010	<0.010 [<0.01]	<0.010 [<0.01]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		SB-A8-LN163 4 - 8 05/18/12	SB-A8-LN168 9 - 13 05/18/12	SB-A8-LP166 3.5 - 7.5 05/18/12	SB-A8-LP166 16 - 20 05/18/12	VAP-A3-LE73* 25 - 28 05/07/12	VAP-A5.1-MT115 12.5 - 13.5 05/11/12	VAP-A5.1-MT115 19 - 20 05/11/12	VAP-A5.1-MT115 25 - 26 05/11/12	VAP-A5.1-MW162* 4.5 - 5 05/04/12	VAP-A5.1-MW162* 20 - 22 05/04/12	VAP-A5.1-MW162* 26 - 28 05/04/12	VAP-A5.1-MW162* 32 - 34 05/07/12	VAP-A5.2-NK132 10 - 11 05/15/12	VAP-A5.2-NK132 21 - 22 05/16/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
1,2-Dibromoethane (Ethylene dibromide)	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
1,2-Dichlorobenzene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
1,4-Dichlorobenzene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
2-Hexanone	ug/L	<10	<10	<10	<10	<20	<20 [<20]	<20	<20	<20	<20	<20	<20	<100	<10
Acetone	ug/L	<10	<10	<10	<10	61 JB	<60 BJ [<60 BJ]	<62 BJ	<51 BJ	60 B	<50	<50	57 JB	<100	15
Bromodichloromethane	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
Bromoform	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
Bromomethane (Methyl bromide)	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	<10	<1
Carbon disulfide	ug/L	<1	<1	<1	2	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
Chloroform (Trichloromethane)	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	0.69 J	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
Chloromethane (Methyl chloride)	ug/L	<1	<1	<1	<1	<5.0	<5.0 [<5]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<1
cis-1,3-Dichloropropene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
Dichlorodifluoromethane (CFC-12)	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	<10	<1
Methyl acetate	ug/L	<10	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	<100	<10
Methylene chloride	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
Styrene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
trans-1,3-Dichloropropene	ug/L	<1	<1	<1	<1	<2.0	1.3 J [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
Trichlorofluoromethane (CFC-11)	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	<10	<1
Trifluorotrichloroethane (Freon 113)	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
1,4-Dioxane	ug/L	<5	<5	<100	<100	32	720 [740] ^a	46	140 ^a	62	280 J ^a	230 J ^a	<100	11	<100
1,1,1-Trichloroethane	ug/L	1.3 J	0.45 J	<1	<1	<2.0	1.7 J [1.7 J]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	500 [530] ^{ab}	185 ^b
1,1,2,2-Tetrachloroethane	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
1,1,2-Trichloroethane	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
1,1-Dichloroethane	ug/L	2	<1	<1	<1	<2.0	23 [25]	1.1 J	<2.0	7.0	<2.0	<2.0	<2.0	400 [360]	124
1,1-Dichloroethene	ug/L	<1	<1	<1	<1	<2.0	44 J [43] ^a	2.5	<2.0	<2.0	<2.0	<2.0	<2.0	12 [14] ^a	4
1,2-Dichloroethane	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
cis-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	33	<2.0	<2.0	<2.0	3.4 [3]	1
trans-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	0.71 J	<2.0	<2.0	<2.0	0.43 J [0.47 J]	<1
Trichloroethene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	10 [9.7] ^a	3
Tetrachloroethene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.5 [2.6]	<1
Vinyl chloride	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.2 J [3.6 J] ^a	2
Chloroethane	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	150 [140]	144
Benzene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	0.25 J
Ethylbenzene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
Toluene	ug/L	1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	30 Y	8
o-Xylene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	0.64 J [0.7 J]	<1
m&p-Xylene	ug/L	<2	<2	<2	<2	<4.0	<4.0 [<4]	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20	<2
Xylene (total)	ug/L	<3	<3	<3	<3	<6	<6 [<6]	<6	<6	<6	<6	<6	<6	<20	<3
Methyl tert butyl ether (MTBE)	ug/L	<1	<1	<1	<1	<2.0	1.2 J [1.4 J]	<2.0	2.0 J	<2.0	<2.0	<2.0	<2.0	<10	<1
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	<10	<10	<10	<10	<20	<20 [<20]	<20	<20	<20	<20	<20	<20	<100	<10
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	<10	<10	<10	<10	<20	<20 J [<20]	<20	<20	<20	<20	<20	<20	<100	<10
1,2,4-Trichlorobenzene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
1,2,4-Trimethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	1.4 J [1.5 J]	<2.0
1,3,5-Trimethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0
1,2-Dichloropropane	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
1,3-Dichlorobenzene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
Cyclohexane	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
Methyl cyclohexane	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
Dibromochloromethane	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
Isopropyl benzene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1
Naphthalene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	5.2 [6.2]	1.0 J

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		SB-A8-LN163 4 - 8 05/18/12	SB-A8-LN168 9 - 13 05/18/12	SB-A8-LP166 3.5 - 7.5 05/18/12	SB-A8-LP166 16 - 20 05/18/12	VAP-A3-LE73* 25 - 28 05/07/12	VAP-A5.1-MT115 12.5 - 13.5 05/11/12	VAP-A5.1-MT115 19 - 20 05/11/12	VAP-A5.1-MT115 25 - 26 05/11/12	VAP-A5.1-MW162* 4.5 - 5 05/04/12	VAP-A5.1-MW162* 20 - 22 05/04/12	VAP-A5.1-MW162* 26 - 28 05/04/12	VAP-A5.1-MW162* 32 - 34 05/07/12	VAP-A5.2-NK132 10 - 11 05/15/12	VAP-A5.2-NK132 21 - 22 05/16/12
	Units														
Semivolatile Organics															
1-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) e	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
2,4,6-Trichlorophenol	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
2,4-Dichlorophenol	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
2,4,5-Trichlorophenol	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
2,4-Dimethylphenol	ug/L	<1	<1	68	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	24 J [13 J]	7
2,4-Dinitrophenol	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
2,4-Dinitrotoluene	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
2,6-Dinitrotoluene	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
2-Chloronaphthalene	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
2-Chlorophenol	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
2-Methylnaphthalene	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
2-Methylphenol	ug/L	<1	<1	2	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
2-Nitroaniline	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
2-Nitrophenol	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
3&4-Methylphenol	ug/L	<1	<1 J	44 ^b	1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
3,3'-Dichlorobenzidine	ug/L	<0.05	<0.05	<0.06	<0.06	NA	R [<0.05]	<0.07	<0.05	<0.05	<0.05	<0.05	<0.06	<0.05 J	<0.06
Naphthalene	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
3-Nitroaniline	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
4-Bromophenyl phenyl ether	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
4-Chloro-3-methylphenol	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
4-Chloroaniline	ug/L	<2	<2	<2	<2	NA	<2 [<2]	<3	<2	<2	<2	<2	<2	<6 [<4]	<2
4-Chlorophenyl phenyl ether	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
4-Nitroaniline	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
4-Nitrophenol	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Anthracene	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Acenaphthene	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Acenaphthylene	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Acetophenone	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Atrazine	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Benzaldehyde	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Benzo(a)anthracene	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Benzo(a)pyrene	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Benzo(b)fluoranthene	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Benzo(g,h,i)perylene	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Benzo(k)fluoranthene	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Biphenyl (1,1-Biphenyl)	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
bis(2-Chloroethoxy)methane	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
bis(2-Chloroethyl)ether	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	<2	<2	<2	<2	NA	<2 [<2]	14 ^a	4	4	<2	<2	<2	<6 [<4]	<2
Butyl benzylphthalate (BBP)	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Caprolactam	ug/L	<1	<1 J	<1	<1	NA	<1 J [<1]	1	<1	<1	<1	<1	<1	<3 [<2]	<1
Carbazole	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Chrysene	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Dibenz(a,h)anthracene	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Dibenzofuran	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Diethyl phthalate	ug/L	<2	<2	<2	<2	NA	<2 [<2]	<3	<2	<2	<2	<2	<2	<6 [<4]	2
Dimethyl phthalate	ug/L	4	4	10	4	NA	<2 [<2]	<3	<2	<2	<2	<2	<2	<6 [<4]	3
Di-n-butylphthalate (DBP)	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Di-n-octyl phthalate (DnOP)	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	1	<1	<1	<3 [<2]	<1
Fluoranthene	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Fluorene	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Hexachlorobenzene	ug/L	<0.05	<0.05	<0.06	<0.06	NA	<0.05 [<0.05]	0.13	0.10	<0.05	<0.05	<0.06	<0.05	<0.05 [<0.05]	<0.06
Hexachlorobutadiene	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Hexachlorocyclopentadiene	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Hexachloroethane	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Indeno(1,2,3-cd)pyrene	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Isophorone	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Nitrobenzene	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
N-Nitrosodi-n-propylamine	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
N-Nitrosodiphenylamine	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Pentachlorophenol	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1
Phenanthrene	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	1	<1	<1	<1	<3 [<2]	<1
Phenol	ug/L	<1	<1 J	11	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	1
Pyrene	ug/L	<1	<1	<1	<1	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<3 [<2]	<1

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		SB-A8-LN163 4 - 8 05/18/12	SB-A8-LN168 9 - 13 05/18/12	SB-A8-LP166 3.5 - 7.5 05/18/12	SB-A8-LP166 16 - 20 05/18/12	VAP-A3-LE73* 25 - 28 05/07/12	VAP-A5.1-MT115 12.5 - 13.5 05/11/12	VAP-A5.1-MT115 19 - 20 05/11/12	VAP-A5.1-MT115 25 - 26 05/11/12	VAP-A5.1-MW162* 4.5 - 5 05/04/12	VAP-A5.1-MW162* 20 - 22 05/04/12	VAP-A5.1-MW162* 26 - 28 05/04/12	VAP-A5.1-MW162* 32 - 34 05/07/12	VAP-A5.2-NK132 10 - 11 05/15/12	VAP-A5.2-NK132 21 - 22 05/16/12
Semivolatile Organics-Filtered															
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) e	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		SB-A8-LN163 4 - 8 05/18/12	SB-A8-LN168 9 - 13 05/18/12	SB-A8-LP166 3.5 - 7.5 05/18/12	SB-A8-LP166 16 - 20 05/18/12	VAP-A3-LE73* 25 - 28 05/07/12	VAP-A5.1-MT115 12.5 - 13.5 05/11/12	VAP-A5.1-MT115 19 - 20 05/11/12	VAP-A5.1-MT115 25 - 26 05/11/12	VAP-A5.1-MW162* 4.5 - 5 05/04/12	VAP-A5.1-MW162* 20 - 22 05/04/12	VAP-A5.1-MW162* 26 - 28 05/04/12	VAP-A5.1-MW162* 32 - 34 05/07/12	VAP-A5.2-NK132 10 - 11 05/15/12	VAP-A5.2-NK132 21 - 22 05/16/12
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs-Filtered															
Total PCBs (dissolved)	ug/L	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND [ND]	ND
Aroclor-1016 (PCB-1016)	ug/L	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	<0.05 [<0.05]	<0.05
Aroclor-1221 (PCB-1221)	ug/L	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	<0.1 [<0.1]	<0.05
Aroclor-1232 (PCB-1232)	ug/L	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	<0.1 [<0.1]	<0.05
Aroclor-1242 (PCB-1242)	ug/L	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	<0.1 [<0.1]	<0.05
Aroclor-1248 (PCB-1248)	ug/L	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	<0.1 [<0.1]	<0.05
Aroclor-1254 (PCB-1254)	ug/L	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	<0.1 [<0.1]	<0.05
Aroclor-1260 (PCB-1260)	ug/L	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	<0.05 [<0.05]	<0.05
Inorganics															
Antimony	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered															
Antimony (dissolved)	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002 [<0.002]	<0.002
Arsenic (dissolved)	mg/L	<0.002	<0.002	0.021 ^{ab}	0.007	0.011 ^{ab}	<0.002 [<0.002]	<0.002	0.014 ^{ab}	0.011 ^{ab}	<0.002	0.004	0.002	0.009 [0.011]	<0.002
Barium (dissolved)	mg/L	0.063	0.022	0.236	0.036	0.295 J	0.113 [0.112]	0.073	0.532	0.337	0.431	0.290	0.212 J	0.079 [0.08]	0.090
Beryllium (dissolved)	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001 [<0.001]	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001 [<0.001]	<0.001
Boron	mg/L	0.45	0.15	1.52 ^a	0.75 ^a	0.06 J	0.25 [0.25]	0.15	0.12	0.16	0.24	0.36	0.51 J ^a	0.11 [0.11]	0.12
Cadmium (dissolved)	mg/L	<0.001	<0.001	0.003	0.001	<0.001	<0.001 [<0.001]	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001 [<0.001]	<0.001
Chromium Total	mg/L	<0.010	<0.010	0.043	<0.010	<0.010	<0.010 [<0.01]	<0.010	<0.010	<0.010	<0.010	0.011	<0.010	<0.010 [<0.01]	<0.010
Cobalt (dissolved)	mg/L	<0.010	<0.010	0.025	<0.010	<0.010	<0.010 [<0.01]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010 [<0.01]	<0.010
Copper (dissolved)	mg/L	0.002	0.003	0.084 ^b	<0.002	<0.002	<0.002 [0.002]	0.002	<0.002	0.003	0.002	0.008	<0.002	<0.002 [<0.002]	<0.002
Lead (dissolved)	mg/L	<0.002	<0.002	0.063 ^{ab}	<0.002	<0.002	<0.002 [<0.002]	<0.002	<0.002	0.010 ^a	<0.002	0.003	<0.002	<0.002 [<0.002]	<0.002
Manganese (dissolved)	mg/L	1.40 ^a	0.294 ^a	0.922 ^a	0.106 ^a	0.269 J ^a	1.37 [1.38] ^a	0.276 ^a	0.132 ^a	1.09 ^a	0.591 ^a	0.535 ^a	0.201 J ^a	0.378 [0.374] ^a	0.293 ^a
Mercury (dissolved)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001 [<0.0001]	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001 [<0.0001]	<0.0001
Nickel (dissolved)	mg/L	0.012	0.017	0.038	0.022	0.011	0.029 [0.029]	0.020	0.013	0.031	0.022	0.029	0.023	<0.010 [<0.01]	0.026
Selenium (dissolved)	mg/L	<0.002	<0.002	0.008 ^b	<0.002	<0.002	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002 [<0.002]	<0.002
Silver (dissolved)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002 [<0.0002]	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002 [<0.0002]	<0.0002
Thallium (dissolved)	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002 [<0.002]	<0.002
Vanadium (dissolved)	mg/L	<0.002	<0.002	0.075 ^{ab}	<0.002	<0.002	<0.002 [<0.002]	<0.002	<0.002	0.002	<0.002	0.003	<0.002	<0.002 [<0.002]	<0.002
Zinc (dissolved)	mg/L	<0.010	<0.010	0.150	<0.010	<0.010	0.039 [0.034]	0.015	0.011	0.017	0.015	0.035	<0.010	<0.010 [<0.01]	<0.010

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID:		VAP-A5.2-NK132	VAP-A5.2-NU137*	VAP-A5.2-NU137*	VAP-A5.2-NV98*	VAP-A5.2-NV119*	VAP-A5.2-NV119*	VAP-A5.2-OE129*	VAP-A5.2-OE129*	VAP-A5.3-OV112*	VAP-A5.3-OV112*	VAP-A5.3-OV112*	VAP-A5.3-OV112*	VAP-A5.3-OV159*	VAP-A5.5-NP194*
Screen Interval(ft):		30 - 32	16 - 18	24 - 26	13 - 15	8 - 9	20 - 22	11 - 13	18.5 - 19.5	10 - 12	16 - 18	26 - 28	34 - 36	4 - 5	8 - 10
Date Collected:		05/16/12	05/01/12	04/30/12	05/03/12	05/02/12	05/03/12	05/02/12	05/02/12	05/07/12	05/07/12	05/08/12	05/08/12	05/10/12	05/08/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dibromoethane (Ethylene dibromide)	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
1,4-Dichlorobenzene	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
2-Hexanone	ug/L	<10	<10.0	<20	<20	20 J	<20	<20	<20	<20 [<20]	<20	<20	<20	<20	<20
Acetone	ug/L	10	<10.0	<50	<50	<50	<50	<50	<50	87 JB [<50]	160 JB	<50	<50	76 JB	100 B
Bromodichloromethane	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	1.8 J	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
Bromomethane (Methyl bromide)	ug/L	<1	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroform (Trichloromethane)	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
Chloromethane (Methyl chloride)	ug/L	<1	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 [<5]	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
Dichlorodifluoromethane (CFC-12)	ug/L	<1	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/L	<10	<10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
trans-1,3-Dichloropropene	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
Trichlorofluoromethane (CFC-11)	ug/L	<1	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
1,4-Dioxane	ug/L	2,500 ^a	<100	<100	<100	220 ^a	55	470 ^a	2,200 E ^a	44 [35]	45	250 ^a	330 ^a	110 ^a	<5 J
1,1,1-Trichloroethane	ug/L	0.70 J	<1.0	<2.0	30	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,2,2-Tetrachloroethane	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,2-Trichloroethane	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	ug/L	<1	<1.0	<2.0	61	6.4	12	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	34	<2.0
1,1-Dichloroethene	ug/L	<1	<1.0	<2.0	4.8	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	0.97 J	<2.0
1,2-Dichloroethane	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
cis-1,2-Dichloroethene	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	6.3	<2.0
trans-1,2-Dichloroethene	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
Trichloroethene	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	0.49 J	<2.0
Tetrachloroethene	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
Vinyl chloride	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroethane	ug/L	<1	3.0	<2.0	<2.0	470 E ^a	220 E	840 E ^a	600 E ^a	<2.0 [<2]	<2.0	<2.0	<2.0	7.9	<2.0
Benzene	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	8.0 ^a	0.53 J	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	ug/L	<1	<1.0	<2.0	<2.0	0.69 J	1.8 J	1.3 J	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	ug/L	<1	<1.0	<2.0	<2.0	1.8 J	<2.0	1.9 J	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
m&p-Xylene	ug/L	<2	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0 [<4]	<4.0	<4.0	<4.0	<4.0	<4.0
Xylene (total)	ug/L	<3	<1.0	<6	<6	1.8 J	<6	1.9 J	<6	<6 [<6]	<6	<6	<6	<6	<6
Methyl tert butyl ether (MTBE)	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	<10	<10.0	<20	<20	<20	<20	<20	<20	<20 [<20]	<20	<20	<20	<20	<20
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	<10	<10.0	<20	<20	<20	<20	<20	<20	<20 [<20]	<20	<20	<20	<20	<20
1,2,4-Trichlorobenzene	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
1,2,4-Trimethylbenzene	ug/L	<2.0	<1.0	<2.0	<2.0	1.4 J	0.89 J	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
1,3,5-Trimethylbenzene	ug/L	<2.0	<1.0	<2.0	<2.0	0.96 J	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloropropane	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	3.1	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
1,3-Dichlorobenzene	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
Cyclohexane	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
Methyl cyclohexane	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
Dibromochloromethane	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
Isopropyl benzene	ug/L	<1	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0
Naphthalene	ug/L	<2.0	<1.0	<2.0	<2.0	0.93 J	<2.0	3.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	1.8 J	<2.0

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		VAP-A5.2-NK132 30 - 32 05/16/12	VAP-A5.2-NU137* 16 - 18 05/01/12	VAP-A5.2-NU137* 24 - 26 04/30/12	VAP-A5.2-NV98* 13 - 15 05/03/12	VAP-A5.2-NV119* 8 - 9 05/02/12	VAP-A5.2-NV119* 20 - 22 05/03/12	VAP-A5.2-OE129* 11 - 13 05/02/12	VAP-A5.2-OE129* 18.5 - 19.5 05/02/12	VAP-A5.3-OV112* 10 - 12 05/07/12	VAP-A5.3-OV112* 16 - 18 05/07/12	VAP-A5.3-OV112* 26 - 28 05/08/12	VAP-A5.3-OV112* 34 - 36 05/08/12	VAP-A5.3-OV159* 4 - 5 05/10/12	VAP-A5.5-NP194* 8 - 10 05/08/12
	Units														
Semivolatile Organics															
1-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) e	ug/L	<1	NA	<1	<1	<70	<4	NA	<1 J	<1 [<1]	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
2,4-Dichlorophenol	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
2,4,5-Trichlorophenol	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	3	<1
2,4-Dimethylphenol	ug/L	<1	NA	<1 J	<1	<70	5	NA	<1	<1 [<1]	<1	<1	<1	13	<1
2,4-Dinitrophenol	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
2,4-Dinitrotoluene	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
2,6-Dinitrotoluene	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
2-Chloronaphthalene	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
2-Chlorophenol	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
2-Methylnaphthalene	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
2-Methylphenol	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	2	<1
2-Nitroaniline	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
2-Nitrophenol	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
3&4-Methylphenol	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
3,3'-Dichlorobenzidine	ug/L	<0.05	<0.05	NA	<0.05	<0.5	<0.05	NA	<0.05	<0.05 [<0.05]	<0.05	<0.05	<0.05	<0.05	<0.05
Naphthalene	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	1	<1
3-Nitroaniline	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
4-Bromophenyl phenyl ether	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
4-Chloroaniline	ug/L	<2	NA	<1 J	<2	<100	<9	NA	<2	<2 [<2]	<2	<2	<2	<2	<2
4-Chlorophenyl phenyl ether	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
4-Nitroaniline	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
4-Nitrophenol	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Anthracene	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Acenaphthene	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Acenaphthylene	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Acetophenone	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Atrazine	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Benzaldehyde	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Benzo(a)anthracene	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Benzo(a)pyrene	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Benzo(b)fluoranthene	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Benzo(k)fluoranthene	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Biphenyl (1,1-Biphenyl)	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
bis(2-Chloroethoxy)methane	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
bis(2-Chloroethyl)ether	ug/L	<1	NA	<1	<1	<70	<4	NA	<1 J	<1 [<1]	<1	<1	<1	<1	<1
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	<2	NA	<1	3	<100	<9	NA	8 ^a	<2 [<2]	<2	<2	<2	<2	<2
Butyl benzylphthalate (BBP)	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Caprolactam	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [1]	<1	<1	<1	<1	<1
Carbazole	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Chrysene	ug/L	<1	NA	<1	<1	80 X ^{ace}	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Dibenz(a,h)anthracene	ug/L	<1	NA	<2	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Dibenzofuran	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Diethyl phthalate	ug/L	<2	NA	<1	<2	<100	<9	NA	<2	<2 [<2]	<2	<2	<2	<2	<2
Dimethyl phthalate	ug/L	<2	NA	<1	<2	<100	<9	NA	<2	<2 [2]	<2	2	<2	13	2
Di-n-butylphthalate (DBP)	ug/L	<1	NA	<1	<1	<70	<4	NA	<2 B	<1 [<1]	<1	<1	<1	<1	<1
Di-n-octyl phthalate (DnOP)	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Fluoranthene	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Fluorene	ug/L	<1	NA	<1	<1	<70	17 X ^b	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Hexachlorobenzene	ug/L	<0.05	<.05	NA	<0.05	<0.5	<0.05	NA	<0.05	<0.05 [<0.05]	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobutadiene	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Hexachloroethane	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Indeno(1,2,3-cd)pyrene	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Isophorone	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Nitrobenzene	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
N-Nitrosodi-n-propylamine	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
N-Nitrosodiphenylamine	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Pentachlorophenol	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Phenanthrene	ug/L	<1	NA	<1	<1	110 X ^{ab}	14 X ^b	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Phenol	ug/L	<1	NA	<1 J	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1
Pyrene	ug/L	<1	NA	<1	<1	<70	<4	NA	<1	<1 [<1]	<1	<1	<1	<1	<1

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		VAP-A5.2-NK132 30 - 32 05/16/12	VAP-A5.2-NU137* 16 - 18 05/01/12	VAP-A5.2-NU137* 24 - 26 04/30/12	VAP-A5.2-NV98* 13 - 15 05/03/12	VAP-A5.2-NV119* 8 - 9 05/02/12	VAP-A5.2-NV119* 20 - 22 05/03/12	VAP-A5.2-OE129* 11 - 13 05/02/12	VAP-A5.2-OE129* 18.5 - 19.5 05/02/12	VAP-A5.3-OV112* 10 - 12 05/07/12	VAP-A5.3-OV112* 16 - 18 05/07/12	VAP-A5.3-OV112* 26 - 28 05/08/12	VAP-A5.3-OV112* 34 - 36 05/08/12	VAP-A5.3-OV159* 4 - 5 05/10/12	VAP-A5.5-NP194* 8 - 10 05/08/12
	Units														
Semivolatile Organics-Filtered															
2-Methyl-4,6-dinitrophenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) e	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		VAP-A5.2-NK132 30 - 32 05/16/12	VAP-A5.2-NU137* 16 - 18 05/01/12	VAP-A5.2-NU137* 24 - 26 04/30/12	VAP-A5.2-NV98* 13 - 15 05/03/12	VAP-A5.2-NV119* 8 - 9 05/02/12	VAP-A5.2-NV119* 20 - 22 05/03/12	VAP-A5.2-OE129* 11 - 13 05/02/12	VAP-A5.2-OE129* 18.5 - 19.5 05/02/12	VAP-A5.3-OV112* 10 - 12 05/07/12	VAP-A5.3-OV112* 16 - 18 05/07/12	VAP-A5.3-OV112* 26 - 28 05/08/12	VAP-A5.3-OV112* 34 - 36 05/08/12	VAP-A5.3-OV159* 4 - 5 05/10/12	VAP-A5.5-NP194* 8 - 10 05/08/12
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	<0.05	NA	<100 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	<0.05	NA	<100 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	<0.05	NA	<100 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	<0.05	NA	800 J ^{abcdeh}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	<0.05	NA	<100 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	<0.05	NA	<100 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	<0.05	NA	<100 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/L	NA	NA	ND	NA	800 J ^{abcdeh}	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs-Filtered															
Total PCBs (dissolved)	ug/L	ND	ND	NA	ND	NA	30 J ^{abc}	NA	0.05	NA	NA	NA	NA	NA	NA
Aroclor-1016 (PCB-1016)	ug/L	<0.05	<0.05	NA	<0.05	NA	<5 J	NA	<0.05	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	<0.05	<0.05	NA	<0.05	NA	<5 J	NA	<0.05	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	<0.05	<0.05	NA	<0.05	NA	<5 J	NA	<0.05	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	<0.05	<0.05	NA	<0.05	NA	30 J ^{abch}	NA	<0.05	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	<0.05	<0.05	NA	<0.05	NA	<5 J	NA	<0.05	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	<0.05	<0.05	NA	<0.05	NA	<5 J	NA	0.05	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	<0.05	<0.05	NA	<0.05	NA	<5 J	NA	<0.05	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered															
Antimony (dissolved)	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	<0.002	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	<0.002
Arsenic (dissolved)	mg/L	0.021 ^{ab}	0.030 ^{ab}	0.003	<0.002	0.020 ^{ab}	0.012 ^{ab}	NA	0.010	0.006 [0.006]	0.003	<0.002	<0.002	0.019 ^{ab}	0.006
Barium (dissolved)	mg/L	0.453	0.563	0.896	0.021	0.199	0.154	NA	0.203	0.120 J [0.123 J] ^a	0.219 J	0.232	0.189	0.084	0.076
Beryllium (dissolved)	mg/L	<0.001	.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001 [<0.001]	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/L	0.05	.24	0.05	0.45	0.25	0.42	NA	0.18	0.23 J [0.25 J]	0.24 J	0.11	0.12	0.27	0.06
Cadmium (dissolved)	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001 [<0.001]	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium Total	mg/L	<0.010	0.066	<0.010	<0.010	<0.010	<0.010	NA	<0.010	<0.010 [<0.01]	<0.010	<0.010	<0.010	<0.010	<0.010
Cobalt (dissolved)	mg/L	<0.010	0.020	<0.010	<0.010	<0.010	<0.010	NA	<0.010	<0.010 [<0.01]	<0.010	<0.010	<0.010	<0.010	<0.010
Copper (dissolved)	mg/L	<0.002	0.051	<0.002	0.009	<0.002	<0.002	NA	0.009	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	0.020
Lead (dissolved)	mg/L	<0.002	0.033 ^a	<0.002	<0.002	<0.002	<0.002	NA	0.003	<0.002 [0.004]	<0.002	<0.002	<0.002	<0.002	0.016 ^a
Manganese (dissolved)	mg/L	0.123 ^a	2.08 ^a	0.356 ^a	0.123 ^a	0.112 ^a	0.255 ^a	NA	0.334 ^a	0.069 J [0.079 J] ^a	0.080 J ^a	0.185 ^a	0.172 ^a	0.133 ^a	0.309 ^a
Mercury (dissolved)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	NA	<0.0001	<0.0001 [<0.0001]	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Nickel (dissolved)	mg/L	0.039	0.064	0.012	<0.010	0.016	0.014	NA	0.018	<0.010 [<0.01]	<0.010	<0.010	<0.010	0.045	0.012
Selenium (dissolved)	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	<0.002	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	<0.002
Silver (dissolved)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	NA	<0.0002	<0.0002 [<0.0002]	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Thallium (dissolved)	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	<0.002	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	<0.002
Vanadium (dissolved)	mg/L	<0.002	0.044 ^a	<0.002	<0.002	<0.002	<0.002	NA	0.004	<0.002 [<0.002]	0.003	0.002	0.003	<0.002	0.011 ^a
Zinc (dissolved)	mg/L	<0.010	0.091	0.020	<0.010	<0.010	0.011	NA	0.020	<0.010 [<0.01]	<0.010	0.013	<0.010	<0.010	0.091

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		VAP-A5.5-NP194* 14 - 15 05/09/12	VAP-A5.5-NP194* 25 - 26 05/09/12	VAP-P2W-OB66 22 - 24 09/13/12	VAP-P2W-QD70 9 - 11 09/14/12
	Units				
Volatile Organics					
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	<2.0	<2.0	<1	<1
1,2-Dibromoethane (Ethylene dibromide)	ug/L	<2.0	<2.0	<1	<1
1,2-Dichlorobenzene	ug/L	<2.0	<2.0	<1	<1
1,4-Dichlorobenzene	ug/L	<2.0	<2.0	<1	<1
2-Hexanone	ug/L	<20	<20	<10	<10
Acetone	ug/L	<50	68 B	<10	<10
Bromodichloromethane	ug/L	<2.0	<2.0	<1	<1
Bromoform	ug/L	<2.0	<2.0	<1	<1
Bromomethane (Methyl bromide)	ug/L	NA	NA	<1	<1
Carbon disulfide	ug/L	<2.0	<2.0	<1	<1
Carbon tetrachloride	ug/L	<2.0	<2.0	<1	<1
Chlorobenzene	ug/L	<2.0	<2.0	<1	<1
Chloroform (Trichloromethane)	ug/L	<2.0	<2.0	<1	<1
Chloromethane (Methyl chloride)	ug/L	<5.0	<5.0	<1	<1
cis-1,3-Dichloropropene	ug/L	<2.0	<2.0	<1	<1
Dichlorodifluoromethane (CFC-12)	ug/L	NA	NA	<1	<1
Methyl acetate	ug/L	NA	NA	<10	<10
Methylene chloride	ug/L	<2.0	<2.0	<1	<1
Styrene	ug/L	<2.0	<2.0	<1	<1
trans-1,3-Dichloropropene	ug/L	<2.0	<2.0	<1	<1
Trichlorofluoromethane (CFC-11)	ug/L	NA	NA	<1	<1
Trifluorotrichloroethane (Freon 113)	ug/L	<2.0	<2.0	<1	<1
1,4-Dioxane	ug/L	<5 J	73	11	<5
1,1,1-Trichloroethane	ug/L	<2.0	<2.0	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	<2.0	<2.0	<1	<1
1,1,2-Trichloroethane	ug/L	<2.0	<2.0	<1	<1
1,1-Dichloroethane	ug/L	<2.0	<2.0	<1	<1
1,1-Dichloroethene	ug/L	0.44 J	<2.0	<1	<1
1,2-Dichloroethane	ug/L	<2.0	<2.0	<1	<1
cis-1,2-Dichloroethene	ug/L	<2.0	<2.0	<1	<1
trans-1,2-Dichloroethene	ug/L	<2.0	<2.0	<1	<1
Trichloroethene	ug/L	<2.0	<2.0	<1	<1
Tetrachloroethene	ug/L	<2.0	<2.0	<1	<1
Vinyl chloride	ug/L	<2.0	<2.0	<1	<1
Chloroethane	ug/L	<2.0	<2.0	<1	<1
Benzene	ug/L	<2.0	<2.0	<1	<1
Ethylbenzene	ug/L	<2.0	<2.0	<1	<1
Toluene	ug/L	<2.0	<2.0	<1	1
o-Xylene	ug/L	<2.0	<2.0	<1	<1
m&p-Xylene	ug/L	<4.0	<4.0	<2	<2
Xylene (total)	ug/L	<6	<6	<3	<3
Methyl tert butyl ether (MTBE)	ug/L	<2.0	<2.0	<1	<1
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	<20	<20	<10	<10
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	<20	<20	<10	<10
1,2,4-Trichlorobenzene	ug/L	<2.0	<2.0	<1	<1
1,2,4-Trimethylbenzene	ug/L	<2.0	<2.0	NA	NA
1,3,5-Trimethylbenzene	ug/L	<2.0	<2.0	NA	NA
1,2-Dichloropropane	ug/L	<2.0	<2.0	<1	<1
1,3-Dichlorobenzene	ug/L	<2.0	<2.0	<1	<1
Cyclohexane	ug/L	<2.0	<2.0	<1	<1
Methyl cyclohexane	ug/L	<2.0	<2.0	<1	<1
Dibromochloromethane	ug/L	<2.0	<2.0	<1	<1
Isopropyl benzene	ug/L	<2.0	<2.0	<1	<1
Naphthalene	ug/L	<2.0	<2.0	NA	NA

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		VAP-A5.5-NP194* 14 - 15 05/09/12	VAP-A5.5-NP194* 25 - 26 05/09/12	VAP-P2W-OB66 22 - 24 09/13/12	VAP-P2W-QD70 9 - 11 09/14/12
	Units				
Semivolatile Organics					
1-Methylnaphthalene	ug/L	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/L	<1	<1	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) e	ug/L	<1	<1	NA	NA
2,4,6-Trichlorophenol	ug/L	<1	<1	NA	NA
2,4-Dichlorophenol	ug/L	<1	<1	NA	NA
2,4,5-Trichlorophenol	ug/L	<1	<1	NA	NA
2,4-Dimethylphenol	ug/L	<1	<1	NA	NA
2,4-Dinitrophenol	ug/L	<1	<1	NA	NA
2,4-Dinitrotoluene	ug/L	<1	<1	NA	NA
2,6-Dinitrotoluene	ug/L	<1	<1	NA	NA
2-Chloronaphthalene	ug/L	<1	<1	NA	NA
2-Chlorophenol	ug/L	<1	<1	NA	NA
2-Methylnaphthalene	ug/L	<1	<1	NA	NA
2-Methylphenol	ug/L	<1	<1	NA	NA
2-Nitroaniline	ug/L	<1	<1	NA	NA
2-Nitrophenol	ug/L	<1	<1	NA	NA
3&4-Methylphenol	ug/L	<1	<1	NA	NA
3,3'-Dichlorobenzidine	ug/L	<0.06	<0.05	NA	NA
Naphthalene	ug/L	<1	<1	NA	NA
3-Nitroaniline	ug/L	<1	<1	NA	NA
4-Bromophenyl phenyl ether	ug/L	<1	<1	NA	NA
4-Chloro-3-methylphenol	ug/L	<1	<1	NA	NA
4-Chloroaniline	ug/L	<2	<2	NA	NA
4-Chlorophenyl phenyl ether	ug/L	<1	<1	NA	NA
4-Nitroaniline	ug/L	<1	<1	NA	NA
4-Nitrophenol	ug/L	<1	<1	NA	NA
Anthracene	ug/L	<1	<1	NA	NA
Acenaphthene	ug/L	<1	<1	NA	NA
Acenaphthylene	ug/L	<1	<1	NA	NA
Acetophenone	ug/L	<1	<1	NA	NA
Atrazine	ug/L	<1	<1	NA	NA
Benzaldehyde	ug/L	<1	<1	NA	NA
Benzo(a)anthracene	ug/L	<1	<1	NA	NA
Benzo(a)pyrene	ug/L	<1	<1	NA	NA
Benzo(b)fluoranthene	ug/L	<1	<1	NA	NA
Benzo(g,h,i)perylene	ug/L	<1	<1	NA	NA
Benzo(k)fluoranthene	ug/L	<1	<1	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	<1	<1	NA	NA
bis(2-Chloroethoxy)methane	ug/L	<1	<1	NA	NA
bis(2-Chloroethyl)ether	ug/L	<1	<1	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	<2	<2	NA	NA
Butyl benzylphthalate (BBP)	ug/L	<1	<1	NA	NA
Caprolactam	ug/L	<1	<1	NA	NA
Carbazole	ug/L	<1	<1	NA	NA
Chrysene	ug/L	<1	<1	NA	NA
Dibenz(a,h)anthracene	ug/L	<1	<1	NA	NA
Dibenzofuran	ug/L	<1	<1	NA	NA
Diethyl phthalate	ug/L	<2	<2	NA	NA
Dimethyl phthalate	ug/L	4	6	NA	NA
Di-n-butylphthalate (DBP)	ug/L	<1	<1	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	<1	<1	NA	NA
Fluoranthene	ug/L	<1	<1	NA	NA
Fluorene	ug/L	<1	<1	NA	NA
Hexachlorobenzene	ug/L	<0.06	<0.05	NA	NA
Hexachlorobutadiene	ug/L	<1	<1	NA	NA
Hexachlorocyclopentadiene	ug/L	<1	<1	NA	NA
Hexachloroethane	ug/L	<1	<1	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	<1	<1	NA	NA
Isophorone	ug/L	<1	<1	NA	NA
Nitrobenzene	ug/L	<1	<1	NA	NA
N-Nitrosodi-n-propylamine	ug/L	<1	<1	NA	NA
N-Nitrosodiphenylamine	ug/L	<1	<1	NA	NA
Pentachlorophenol	ug/L	<1	<1	NA	NA
Phenanthrene	ug/L	<1	<1	NA	NA
Phenol	ug/L	<1	<1	NA	NA
Pyrene	ug/L	<1	<1	NA	NA

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:		VAP-A5.5-NP194* 14 - 15 05/09/12	VAP-A5.5-NP194* 25 - 26 05/09/12	VAP-P2W-OB66 22 - 24 09/13/12	VAP-P2W-QD70 9 - 11 09/14/12
	Units				
Semivolatile Organics-Filtered					
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) e	ug/L	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	NA	NA	NA	NA
2-Chlorophenol	ug/L	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NA	NA	NA	NA
2-Methylphenol	ug/L	NA	NA	NA	NA
2-Nitroaniline	ug/L	NA	NA	NA	NA
2-Nitrophenol	ug/L	NA	NA	NA	NA
3&4-Methylphenol	ug/L	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	NA	NA	NA	NA
Naphthalene	ug/L	NA	NA	NA	NA
3-Nitroaniline	ug/L	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	NA	NA	NA	NA
4-Chloroaniline	ug/L	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	NA	NA	NA
4-Nitroaniline	ug/L	NA	NA	NA	NA
4-Nitrophenol	ug/L	NA	NA	NA	NA
Anthracene	ug/L	NA	NA	NA	NA
Acenaphthene	ug/L	NA	NA	NA	NA
Acenaphthylene	ug/L	NA	NA	NA	NA
Acetophenone	ug/L	NA	NA	NA	NA
Atrazine	ug/L	NA	NA	NA	NA
Benzaldehyde	ug/L	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	NA	NA	NA	NA
Caprolactam	ug/L	NA	NA	NA	NA
Carbazole	ug/L	NA	NA	NA	NA
Chrysene	ug/L	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	NA	NA	NA	NA
Dibenzofuran	ug/L	NA	NA	NA	NA
Diethyl phthalate	ug/L	NA	NA	NA	NA
Dimethyl phthalate	ug/L	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	NA	NA	NA	NA
Fluoranthene	ug/L	NA	NA	NA	NA
Fluorene	ug/L	NA	NA	NA	NA
Hexachlorobenzene	ug/L	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	NA	NA	NA	NA
Hexachloroethane	ug/L	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	NA	NA	NA	NA
Isophorone	ug/L	NA	NA	NA	NA
Nitrobenzene	ug/L	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	NA	NA	NA	NA
Pentachlorophenol	ug/L	NA	NA	NA	NA
Phenanthrene	ug/L	NA	NA	NA	NA
Phenol	ug/L	NA	NA	NA	NA
Pyrene	ug/L	NA	NA	NA	NA

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Location ID: Screen Interval(ft): Date Collected:	Units	VAP-A5.5-NP194*	VAP-A5.5-NP194*	VAP-P2W-OB66	VAP-P2W-QD70
		14 - 15	25 - 26	22 - 24	9 - 11
		05/09/12	05/09/12	09/13/12	09/14/12
PCBs					
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	NA	NA
Total PCBs	ug/L	NA	NA	NA	NA
PCBs-Filtered					
Total PCBs (dissolved)	ug/L	NA	NA	NA	NA
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	NA	NA
Inorganics					
Antimony	mg/L	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA
Beryllium	mg/L	NA	NA	NA	NA
Boron	mg/L	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/L	NA	NA	NA	NA
Chromium	mg/L	NA	NA	NA	NA
Cobalt	mg/L	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA
Mercury	mg/L	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA
Selenium	mg/L	NA	NA	NA	NA
Silver	mg/L	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA
Inorganics-Filtered					
Antimony (dissolved)	mg/L	<0.002	<0.002	NA	NA
Arsenic (dissolved)	mg/L	0.004	0.005	NA	NA
Barium (dissolved)	mg/L	0.121	0.403	NA	NA
Beryllium (dissolved)	mg/L	<0.001	<0.001	NA	NA
Boron	mg/L	0.09	0.12	NA	NA
Cadmium (dissolved)	mg/L	<0.001	<0.001	NA	NA
Chromium Total	mg/L	<0.010	<0.010	NA	NA
Cobalt (dissolved)	mg/L	<0.010	<0.010	NA	NA
Copper (dissolved)	mg/L	0.003	<0.002	NA	NA
Lead (dissolved)	mg/L	<0.002	<0.002	NA	NA
Manganese (dissolved)	mg/L	0.052 ^a	0.212 ^a	NA	NA
Mercury (dissolved)	mg/L	<0.0001	<0.0001	NA	NA
Nickel (dissolved)	mg/L	<0.010	<0.010	NA	NA
Selenium (dissolved)	mg/L	<0.002	<0.002	NA	NA
Silver (dissolved)	mg/L	<0.0002	<0.0002	NA	NA
Thallium (dissolved)	mg/L	<0.002	<0.002	NA	NA
Vanadium (dissolved)	mg/L	<0.002	<0.002	NA	NA
Zinc (dissolved)	mg/L	<0.010	<0.010	NA	NA

TABLE 13
RFI Phase 2 Summary Report
RACER Plant 2
Summary of Groundwater Sample Analytical Results

Table Notes:

- Shading indicates result exceeding one or more MDEQ Part 201 Generic Cleanup Criteria and Screening Levels, Dated March 25, 2011.
- Bold fonts represent data where detections were noted above the MDL but below MDEQ Part 201 Generic Cleanup Criteria.
- Data shown in [] represent duplicate sample analytical results.
- mg/L - milligrams per liter
- µg/L - micrograms per liter
- * - Sample was analyzed in on-site lab with instruments calibrated to screening mode. This data was not validated
- ** - Sample collected by others and analytical reports provided to ARCADIS. This data was not validated
- ^a - Sample exceeds Residential Drinking Water Criteria
- ^b - Sample exceeds Groundwater Surface Water Interface Criteria
- ^c - Sample exceeds Groundwater Contact Criteria
- ^d - Sample exceeds Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria
- ^e - Sample exceeds Water Solubility Criteria
- ^f - Sample exceeds Flammability and Explosivity Screening Levels
- ^g - Sample exceeds Acute Inhalation Screening Levels
- ^h - Sample exceeds Non-Residential Groundwater Concentrations for Vapor Intrusion

MDEQ Criteria Footnotes: (as revised September 28, 2012)

- = Not listed in the MDEQ Criteria Tables.
- ID = Insufficient data to develop a criterion.
- Na = Not available.
- NLV = Not likely to volatilize.
- A = Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005.
- D = Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb).
- E = Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA).
- F = Criterion is based on adverse impacts to plant life and phytotoxicity.
- G = Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. A hardness value of 257 mg/L was used.
- L = Criteria for lead are derived using a biologically based model, as allowed for under Section 20120a(10) of the NREPA, and are not calculated using the algorithms and assumptions specified in pathway-specific rules.
- M = Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.
- S = Criterion defaults to the hazardous substance-specific water solubility limit.
- W = Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with the Michigan drinking water standard of 80 µg/L.
- X = The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water
- AA = Comparison to these criteria may take into account an evaluation of whether the hazardous substances are adsorbed to particulates rather than dissolved in water and whether filtered groundwater samples were used to evaluate groundwater.

Lab Data Qualifiers:

- B = Compounds also found in associated method blank
- D = Compound quantified using a secondary dilution
- E = Analyte exceeds calibration range
- I = Matrix interference with internal standard
- J = The compound/constituent was positively identified; however, the associated numerical value is an estimated concentration only.
- K = Elevated reporting limits due to low total solids
- N = Normal Sample
- p = Benzo(b)fluoranthene and Benzo(k)fluoranthene integrated as one peak
- R = Rejected
- S = Surrogate recovery outside of control limits
- T = No correction for total solids
- UJ = The analyte was not detected above the quantitation limits, however the quantitation limits is estimated
- U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
- X = Elevated reporting limit due to matrix interference
- z = Sample preserved in the lab

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		Residential Drinking Water Protection Criteria ^(a)	Groundwater Surface Water Interface Protection Criteria ^(b)	Groundwater Contact Protection Criteria ^(c)	Non-Residential Soil Volatilization to Indoor Air Criteria ^(d)	Non-Residential Infinite Source Volatile Soil Inhalation Criteria ^(e) (1)	Non- Residential Direct Contact Criteria ^(f)	Non- Residential Particulate Soil Inhalation Criteria ^(g) (1)	Soil Saturation Levels ^(h)	Statewide Default Background Levels ⁽ⁱ⁾	27-RO 6 - 7 08/15/11	27-RO 24 - 25 08/15/11	CH-13-RO 6 - 7 08/16/11	CH-13-RO 21 - 22 08/16/11	CH-14-RO 9 - 10 08/15/11	CH-14-RO 18 - 19 08/15/11
Volatile Organics																
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	10(M)	ID	1,200(C)	1,200(C)	387	1,200(C)	3.01E+05	1,200	--	<3 J	<3	<3 J	<3	<3 J	<3 J
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	20(M)	110(X)	500	3,600	2,494	430	7.74E+06	8.90E+05	--	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	ug/kg	14,000	280	2.10E+05(C)	2.10E+05(C)	1.98E+07	2.10E+05(C)	1.89E+10	2.10E+05	--	<70	<60	<60	<70	<60	<70
1,4-Dichlorobenzene	ug/kg	1,700	360	1.40E+05	1.00E+05	1.12E+05	1.90E+06	2.45E+08	NA	--	<70	<60	<60	<70	<60	<70
2-Hexanone	ug/kg	20,000	ID	2.50E+06(C)	1.80E+06	5.59E+05	2.50E+06(C)	5.16E+08	2.50E+06	--	<670	<620	<610	<690	<590	<680
Acetone	ug/kg	15,000	34,000	1.10E+08(C)	1.10E+08(C)	6.88E+07	7.30E+07	7.31E+10	1.10E+08	--	<670	<620	<610	<690	<590	<680
Bromodichloromethane	ug/kg	1,600(W)	ID	2.80E+05	6,400	13,330	4.90E+05	4.73E+07	1.50E+06	--	<70	<60	<60	<70	<60	<70
Bromoform	ug/kg	1,600(W)	ID	8.70E+05(C)	7.70E+05	1.33E+06	8.70E+05(C)	1.55E+09	8.70E+05	--	<70	<60	<60	<70	<60	<70
Bromomethane (Methyl bromide)	ug/kg	200	700	1.40E+06	1,600	5,590	1.00E+06	6.45E+07	2.20E+06	--	<70	<60	<60	<70	<60	<70
Carbon disulfide	ug/kg	16,000	ID	2.80E+05(C)	1.40E+05	6.88E+05	2.80E+05(C,DD)	9.03E+09	2.80E+05	--	<70	<60	<60	<70	<60	<70
Carbon tetrachloride	ug/kg	100	900(X)	92,000	990	5,160	3.90E+05(C)	7.31E+07	3.90E+05	--	<70	<60	<60	<70	<60	<70
Chlorobenzene	ug/kg	2,000	500	2.60E+05(C)	2.20E+05	3.96E+05	2.60E+05(C)	9.03E+08	2.60E+05	--	<70	<60	<60	<70	<60	<70
Chloroform (Trichloromethane)	ug/kg	1,600(W)	7,000	1.50E+06(C)	38,000	64,500	1.50E+06(C)	6.88E+08	1.50E+06	--	<70	<60	<60	<70	<60	<70
Chloromethane (Methyl chloride)	ug/kg	5,200	ID	1.10E+06(C)	10,000	51,600	1.10E+06(C)	1.12E+09	1.10E+06	--	<70	<60	<60	<70	<60	<70
cis-1,3-Dichloropropene	ug/kg	170	180(X)	1.10E+05	5,400	25,800	2.40E+05	2.54E+08	6.20E+05	--	<70	<60	<60	<70	<60	<70
Dichlorodifluoromethane (CFC-12)	ug/kg	95,000	ID	1.00E+06(C)	1.70E+06	2.71E+07	1.00E+06(C)	6.45E+11	1.00E+06	--	<70 J	<60 J	<60 J	<70	<60 J	<70 J
Methyl acetate	ug/kg	--	--	--	--	--	--	--	--	--	<670	<620	<610	<690	<590	<680
Methylene chloride	ug/kg	100	30,000(X)	2.30E+06(C)	2.40E+05	3.01E+05	2.30E+06(C)	3.57E+09	2.30E+06	--	<70	<60	<60	<70	<60	<70
Styrene	ug/kg	2,700	2,100(X)	2.70E+05	5.20E+05(C)	1.42E+06	5.20E+05(C)	2.97E+09	5.20E+05	--	<70	<60	<60	<70	<60	<70
trans-1,3-Dichloropropene	ug/kg	170	180(X)	1.10E+05	5,400	25,800	2.40E+05	2.54E+08	6.20E+05	--	<70	<60	<60	<70	<60	<70
Trichlorofluoromethane (CFC-11)	ug/kg	52,000	NA	5.60E+05(C)	5.60E+05(C)	4.73E+07	5.60E+05(C)	7.31E+11	5.60E+05	--	<70	<60	<60	<70	<60	<70
Trifluorotrichloroethane (Freon 113)	ug/kg	5.50E+05(C)	1,700	5.50E+05(C)	5.50E+05(C)	9.03E+07	5.50E+05(C)	9.89E+11	5.50E+05	--	<70	<60	<60	<70	<60	<70
1,4-Dioxane	ug/kg	1,700	56,000(X)	3.40E+07	NLV	NLV	2.40E+06	3.05E+08	9.70E+07	--	<300	<300	<300	<300	<300	<300
1,1,1-Trichloroethane	ug/kg	4,000	1,800	4.60E+05(C)	4.60E+05	1.94E+06	4.60E+05(C)	1.25E+10	4.60E+05	--	<70	<60	<60	<70	<60	<70
1,1,2,2-Tetrachloroethane	ug/kg	170	1,600(X)	94,000	23,000	14,620	2.40E+05	2.92E+07	8.70E+05	--	<70	<60	<60	<70	<60	<70
1,1,2-Trichloroethane	ug/kg	100	6,600(X)	4.20E+05	24,000	24,510	8.40E+05	1.08E+08	9.20E+05	--	<70	<60	<60	<70	<60	<70
1,1-Dichloroethane	ug/kg	18,000	15,000	8.90E+05(C)	4.30E+05	1.08E+06	8.90E+05(C)	6.45E+09	8.90E+05	--	<70	<60	<60	<70	<60	<70
1,1-Dichloroethene	ug/kg	140	2,600	2.20E+05	330	1,591	5.70E+05(C)	3.35E+07	5.70E+05	--	<70	<60	<60	<70	<60	<70
1,2-Dichloroethane	ug/kg	100	7,200(X)	3.80E+05	11,000	9,030	4.20E+05	6.45E+07	1.20E+06	--	<70	<60	<60	<70	<60	<70
cis-1,2-Dichloroethene	ug/kg	1,400	12,000	6.40E+05(C)	41,000	90,300	6.40E+05(C)	4.30E+08	6.40E+05	--	<70	<60	<60	<70	<60	<70
trans-1,2-Dichloroethene	ug/kg	2,000	30,000(X)	1.40E+06(C)	43,000	1.42E+05	1.40E+06(C)	9.03E+08	1.40E+06	--	<70	<60	<60	<70	<60	<70
Trichloroethene	ug/kg	100	4,000(X)	4.40E+05	1,900	6,020	5.00E+05(C,DD)	2.54E+07	5.00E+05	--	<70	<60	<60	<70	<60	<70
Tetrachloroethene	ug/kg	100	1,200(X)	88,000(C)	21,000	90,300	88,000(C)	5.16E+08	88,000	--	<70	<60	<60	<70	<60	<70
Vinyl chloride	ug/kg	40	260(X)	20,000	2,800	12,470	34,000	3.83E+08	4.90E+05	--	<70	<60	<60	<70	<60	<70
Chloroethane	ug/kg	8,600	22,000(X)	9.50E+05(C)	9.50E+05(C)	1.55E+07	9.50E+05(C)	1.25E+11	9.50E+05	--	<70	<60	<60	<70	<60	<70
Benzene	ug/kg	100	4,000(X)	2.20E+05	8,400	19,350	4.00E+05(C)	2.02E+08	4.00E+05	--	<70	<60	<60	<70	<60	<70
Ethylbenzene	ug/kg	1,500	360	1.40E+05(C)	1.40E+05(C)	1.03E+06	1.40E+05(C)	5.59E+09	1.40E+05	--	<70	<60	<60	<70	<60	<70
Toluene	ug/kg	16,000	5,400	2.50E+05(C)	2.50E+05(C)	1.42E+06	2.50E+05(C)	5.16E+09	2.50E+05	--	<70	<60	<60	<70	<60	<70
o-Xylene	ug/kg	5,600	820	1.50E+05(C)	1.50E+05(C)	2.32E+07	1.50E+05(C)	5.59E+10	1.50E+05	--	<70	<60	<60	<70	<60	<70
m&p-Xylene	ug/kg	5,600	820	1.50E+05(C)	1.50E+05(C)	2.32E+07	1.50E+05(C)	5.59E+10	1.50E+05	--	<100	<100	<100	<100	<100	<100
Xylene (total)	ug/kg	5,600	820	1.50E+05(C)	1.50E+05(C)	2.32E+07	1.50E+05(C)	5.59E+10	1.50E+05	--	<170	<160	<160	<170	<160	<170
Methyl tert butyl ether (MTBE)	ug/kg	800	1.40E+05(X)	5.90E+06(C)	5.90E+06(C)	1.29E+07	5.90E+06(C)	3.78E+10	5.90E+06	--	<70	<60	<60	<70	<60	<70
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	2.60E+05	44,000	2.70E+07(C)	2.70E+07(C)	1.51E+07	2.70E+07(C,DD)	1.25E+10	2.70E+07	--	<670	<620	<610	<690	<590	<680
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	36,000	ID	2.70E+06(C)	2.70E+06(C)	2.28E+07	2.70E+06(C)	2.58E+10	2.70E+06	--	<670	<620	<610	<690	<590	<680
1,2,4-Trichlorobenzene	ug/kg	4,200	5,900(X)	1.10E+06(C)	1.10E+06(C)	1.46E+07	1.10E+06(C,DD)	4.73E+09	1.10E+06	--	<70	<60	<60	<70	<60	<70
1,2,4-Trimethylbenzene	ug/kg	2,100	570	1.10E+05(C)	1.10E+05(C)	1.08E+07	1.10E+05(C)	1.55E+10	1.10E+05	--	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	1,800	1,100	94,000(C)	94,000(C)	8.17E+06	94,000(C)	1.55E+10	94,000	--	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	100	4,600(X)	3.20E+05	7,400	12,900	5.50E+05(C)	5.16E+07	5.50E+05	--	<70	<60	<60	<70	<60	<70
1,3-Dichlorobenzene	ug/kg	170	680	51,000	48,000	40,420	1.70E+05(C)	3.78E+07	1.70E+05	--	<70	<60	<60	<70	<60	<70
Cyclohexane	ug/kg	--	--	--	--	--	--	--	--	--	<70	<60	<60	<70	<60	<70
Methyl cyclohexane	ug/kg	--	--	--	--	--	--	--	--	--	<70	<60	<60	<70	<60	<70
Dibromochloromethane	ug/kg	1,600(W)	ID	3.60E+05	21,000	34,400	5.00E+05	6.88E+07	6.10E+05	--	<70	<60	<60	<70	<60	<70
Isopropyl benzene	ug/kg	91,000	3,200	3.90E+05(C)	3.90E+05(C)	8.60E+05	3.90E+05(C)	1.12E+09	3.90E+05	--	<70	<60	<60	<70	<60	<70
Naphthalene	ug/kg	35,000	730	2.10E+06	4.70E+05	1.51E+05	5.20E+07	3.78E+07	NA	--	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		Residential Drinking Water Protection Criteria ^(a)	Groundwater Surface Water Interface Protection Criteria ^(b)	Groundwater Contact Protection Criteria ^(c)	Non-Residential Soil Volatilization to Indoor Air Criteria ^(d)	Non-Residential Infinite Source Volatile Soil Inhalation Criteria ^(e) (1)	Non- Residential Direct Contact Criteria ^(f)	Non- Residential Particulate Soil Inhalation Criteria ^(g) (1)	Soil Saturation Levels ^(h)	Statewide Default Background Levels ⁽ⁱ⁾	27-RO 6 - 7 08/15/11	27-RO 24 - 25 08/15/11	CH-13-RO 6 - 7 08/16/11	CH-13-RO 21 - 22 08/16/11	CH-14-RO 9 - 10 08/15/11	CH-14-RO 18 - 19 08/15/11
Semivolatile Organics																
1-Methylnaphthalene	ug/kg	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	830(M)	NA	1.90E+05	NLV	NLV	2.60E+05	2.54E+07	NA	--	<40	<40	<40	<40	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40	<40	<40
2,4,6-Trichlorophenol	ug/kg	2,400	330(M)	2.00E+05	NLV	NLV	3.30E+06	5.59E+08	NA	--	<40	<40	<40	<40	<40	<40
2,4-Dichlorophenol	ug/kg	1,500	330(M)	9.60E+05	NLV	NLV	1.80E+06(C,DD)	9.89E+08	1.80E+06	--	<40	<40	<40	<40	<40	<40
2,4,5-Trichlorophenol	ug/kg	39,000	NA	9.10E+06	NLV	NLV	7.30E+07	4.30E+09	NA	--	<40	<40	<40	<40	<40	<40
2,4-Dimethylphenol	ug/kg	7,400	7,600	1.00E+07	NLV	NLV	3.60E+07	9.03E+08	NA	--	<40	<40	<40	<40	<40	<40
2,4-Dinitrophenol	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40	<40	<40
2,4-Dinitrotoluene	ug/kg	430	NA	1.70E+05	NLV	NLV	2.20E+05	8.60E+06	NA	--	<40	<40	<40	<40	<40	<40
2,6-Dinitrotoluene	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40	<40	<40
2-Chloronaphthalene	ug/kg	6.20E+05	NA	2.30E+06	ID	ID	1.80E+08	ID	NA	--	<40	<40	<40	<40	<40	<40
2-Chlorophenol	ug/kg	900	360	1.90E+06	8.00E+05	4.73E+05	4.50E+06	2.28E+08	1.90E+07	--	<40	<40	<40	<40	<40	<40
2-Methylnaphthalene	ug/kg	57,000	4,200	5.50E+06	4.90E+06	7.74E+05	2.60E+07	1.25E+08	NA	--	<40	<40	<40	<40	<40	<40
2-Methylphenol	ug/kg	7,400	1,000(M)	1.60E+07	NLV	NLV	3.60E+07	1.25E+09	NA	--	<40	<40	<40	<40	<40	<40
2-Nitroaniline	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40	<40	<40
2-Nitrophenol	ug/kg	400	ID	1.60E+06	NLV	NLV	2.00E+06	ID	NA	--	<40	<40	<40	<40	<40	<40
3&4-Methylphenol	ug/kg	7,400	1,000(M)	1.60E+07	NLV	NLV	3.60E+07	1.25E+09	NA	--	<40	<40	<40	<40	<40	<40
3,3'-Dichlorobenzidine	ug/kg	2,000(M)	2,000(M)	4,600	NLV	NLV	30,000	3.53E+06	NA	--	<40	<40	<40	<40	<40	<40
Naphthalene	ug/kg	35,000	730	2.10E+06	4.70E+05	1.51E+05	5.20E+07	3.78E+07	NA	--	<40	<40	<40	<40	<40	<40
3-Nitroaniline	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40	<40	<40
4-Bromophenyl phenyl ether	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40	<40	<40
4-Chloro-3-methylphenol	ug/kg	5,800	280	3.00E+06	NLV	NLV	1.50E+07	ID	NA	--	<40	<40	<40	<40	<40	<40
4-Chloroaniline	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40	<40	<40
4-Nitroaniline	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40	<40	<40
4-Nitrophenol	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40	<40	<40
Anthracene	ug/kg	41,000	ID	41,000	1.00E+09(D)	6.88E+08	7.30E+08	1.25E+10	NA	--	<40	<40	<40	<40	<40	<40
Acenaphthene	ug/kg	3.00E+05	8,700	9.70E+05	3.50E+08	4.17E+07	1.30E+08	2.67E+09	NA	--	<40	<40	<40	<40	<40	<40
Acenaphthylene	ug/kg	5,900	ID	4.40E+05	3.00E+06	1.16E+06	5.20E+06	4.30E+08	NA	--	<40	<40	<40	<40	<40	<40
Acetophenone	ug/kg	30,000	ID	1.10E+06(C)	1.10E+06(C)	2.24E+07	1.10E+06(C)	6.02E+09	1.10E+06	--	<40	<40	<40	<40	<40	<40
Atrazine	ug/kg	60	150	1.10E+05	NLV	NLV	3.30E+05(DD)	ID	NA	--	<40	<40	<40	<40	<40	<40
Benzaldehyde	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40	<40	<40
Benzo(a)anthracene	ug/kg	NLL	NLL	NLL	NLV	NLV	80,000	ID	NA	--	<40	<40	<40	<40	<40	<40
Benzo(a)pyrene	ug/kg	NLL	NLL	NLL	NLV	NLV	8,000	8.17E+05	NA	--	<40	<40	<40	<40	<40	<40
Benzo(b)fluoranthene	ug/kg	NLL	NLL	NLL	ID	ID	80,000	ID	NA	--	<40	<40	<40	<40	<40	<40
Benzo(g,h,i)perylene	ug/kg	NLL	NLL	NLL	NLV	NLV	7.00E+06	1.51E+08	NA	--	<40	<40	<40	<40	<40	<40
Benzo(k)fluoranthene	ug/kg	NLL	NLL	NLL	NLV	NLV	8.00E+05	ID	NA	--	<40	<40	<40	<40	<40	<40
Biphenyl (1,1-Biphenyl)	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40	<40	<40
bis(2-Chloroethoxy)methane	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40	<40	<40
bis(2-Chloroethyl)ether	ug/kg	100	100(M)	1.10E+05	44,000	5,590	58,000	5.16E+06	2.20E+06	--	<40	<40	<40	<40	<40	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NLL	NLL	NLL	NLV	NLV	1.00E+07(C)	3.83E+08	1.00E+07	--	<40	<40	<40	<40	<40	<40
Butyl benzylphthalate (BBP)	ug/kg	3.10E+05(C)	1.20E+05(X)	3.10E+05(C)	NLV	NLV	3.10E+05(C)	9.03E+09	3.10E+05	--	<40	<40	<40	<40	<40	<40
Caprolactam	ug/kg	1.20E+05	NA	1.00E+09(D)	NLV	NLV	3.10E+08(DD)	1.25E+08	NA	--	<40	<40	<40	<40	<40	<40
Carbazole	ug/kg	9,400	1,100	8.20E+05	NLV	NLV	2.40E+06	3.35E+07	NA	--	<40	<40	<40	<40	<40	<40
Chrysene	ug/kg	NLL	NLL	NLL	ID	ID	8.00E+06	ID	NA	--	<80	<70	<70	<80	<70	<80
Dibenz(a,h)anthracene	ug/kg	NLL	NLL	NLL	NLV	NLV	8,000	ID	NA	--	<80	<70	<70	<80	<70	<80
Dibenzofuran	ug/kg	ID	1,700	ID	3.60E+06	68,800	ID	1.25E+06	NA	--	<40	<40	<40	<40	<40	<40
Diethyl phthalate	ug/kg	1.10E+05	2,200	7.40E+05(C)	NLV	NLV	7.40E+05(C)	6.45E+08	7.40E+05	--	<80	<70	<70	<80	<70	<80
Dimethyl phthalate	ug/kg	7.90E+05(C)	NA	7.90E+05(C)	NLV	NLV	7.90E+05(C)	6.45E+08	7.90E+05	--	<80	<70	<70	<80	<70	<80
Di-n-butylphthalate (DBP)	ug/kg	7.60E+05(C)	11,000	7.60E+05(C)	NLV	NLV	7.60E+05(C)	6.45E+08	7.60E+05	--	<80	<70	<70	<80	<70	<80
Di-n-octyl phthalate (DnOP)	ug/kg	1.00E+08	ID	1.40E+08(C)	NLV	NLV	2.00E+07	6.02E+09	1.40E+08	--	<40	<40	<40	<40	<40	<40
Fluoranthene	ug/kg	7.30E+05	5,500	7.30E+05	1.00E+09(D)	3.83E+08	1.30E+08	1.76E+09	NA	--	<40	<40	<40	<40	<40	<40
Fluorene	ug/kg	3.90E+05	5,300	8.90E+05	1.00E+09(D)	6.45E+07	8.70E+07	1.76E+09	NA	--	<40	<40	<40	<40	<40	<40
Hexachlorobenzene	ug/kg	1,800	350	8,200	2.20E+05	24,080	37,000	3.66E+06	NA	--	<40	<40	<40	<40	<40	<40
Hexachlorobutadiene	ug/kg	26,000	91	3.50E+05(C)	3.50E+05(C)	1.98E+05	3.50E+05(C)	7.74E+07	3.50E+05	--	<40	<40	<40	<40	<40	<40
Hexachlorocyclopentadiene	ug/kg	3.20E+05	ID	7.20E+05(C)	56,000	25,800	7.20E+05(C)	2.54E+06	7.20E+05	--	<40	<40	<40	<40	<40	<40
Hexachloroethane	ug/kg	430	1,800(X)	1.10E+05	79,000	2.84E+05	7.30E+05	4.30E+07	NA	--	<40	<40	<40	<40	<40	<40
Indeno(1,2,3-cd)pyrene	ug/kg	NLL	NLL	NLL	NLV	NLV	80,000	ID	NA	--	<40	<40	<40	<40	<40	<40
Isophorone	ug/kg	15,000	26,000(X)	2.40E+06(C)	NLV	NLV	2.40E+06(C)	3.53E+09	2.40E+06	--	<40	<40	<40	<40	<40	<40
Nitrobenzene	ug/kg	330(M)	3,600(X)	2.20E+05	1.70E+05	27,520	3.40E+05	9.03E+06	4.90E+05	--	<40	<40	<40	<40	<40	<40
N-Nitrosodi-n-propylamine	ug/kg	330(M)	NA	7,200	NLV	NLV	5,400	8.60E+05	1.50E+06	--	<40	<40	<40	<40	<40	<40
N-Nitrosodiphenylamine	ug/kg	5,400	NA	7.00E+05	NLV	NLV	7.80E+06	1.20E+09	NA	--	<40	<40	<40	<40	<40	<40
Pentachlorophenol	ug/kg	22	17,000(G,X)	4,300	NLV	NLV	3.20E+05	5.59E+07	NA	--	<40	<40	<40	<40	<40	<40
Phenanthrene	ug/kg	56,000	2,100	1.10E+06	5.10E+06	81,700	5.20E+06	1.25E+06	NA	--	<40	<40	<40	<40	<40	<40
Phenol	ug/kg	88,000	9,000	1.20E+07(C)	NLV	NLV	1.20E+07(C,DD)	7.74E+09	1.20E+07	--	<40	<40	<40	<40	<40	<40
Pyrene	ug/kg	4.80E+05	ID	4.80E+05	1.00E+09(D)	3.35E+08	8.40E+07	1.25E+09	NA	--	<40	<40	<40	<40	<40	<40

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		Residential Drinking Water Protection Criteria ^(a)	Groundwater Surface Water Interface Protection Criteria ^(b)	Groundwater Contact Protection Criteria ^(c)	Non-Residential Soil Volatilization to Indoor Air Criteria ^(d)	Non-Residential Infinite Source Volatile Soil Inhalation Criteria ^(e) (1)	Non- Residential Direct Contact Criteria ^(f)	Non- Residential Particulate Soil Inhalation Criteria ^(g) (1)	Soil Saturation Levels ^(h)	Statewide Default Background Levels ⁽ⁱ⁾	27-RO 6 - 7 08/15/11	27-RO 24 - 25 08/15/11	CH-13-RO 6 - 7 08/16/11	CH-13-RO 21 - 22 08/16/11	CH-14-RO 9 - 10 08/15/11	CH-14-RO 18 - 19 08/15/11
PCBs																
Aroclor-1016 (PCB-1016)	ug/kg	NLL	NLL	NLL	1.60E+07	3.48E+05	16,000(T)	2.80E+06	NA	--	<3	<3	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NLL	NLL	NLL	1.60E+07	3.48E+05	16,000(T)	2.80E+06	NA	--	<3	<3	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NLL	NLL	NLL	1.60E+07	3.48E+05	16,000(T)	2.80E+06	NA	--	<3	<3	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NLL	NLL	NLL	1.60E+07	3.48E+05	16,000(T)	2.80E+06	NA	--	<3	<3	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NLL	NLL	NLL	1.60E+07	3.48E+05	16,000(T)	2.80E+06	NA	--	<3	<3	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NLL	NLL	NLL	1.60E+07	3.48E+05	16,000(T)	2.80E+06	NA	--	<3	<3	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NLL	NLL	NLL	1.60E+07	3.48E+05	16,000(T)	2.80E+06	NA	--	<3	<3	NA	NA	NA	NA
Total PCBs	ug/kg	NLL	NLL	NLL	1.60E+07	3.48E+05	16,000(T)	2.80E+06	NA	--	<3	<3	NA	NA	NA	NA
Inorganics																
Antimony	mg/kg	4.3	94(X)	49,000	NLV	NLV	670	2,537	NA	--	<0.12	<0.12	<0.12	<0.12	<0.12	<0.13
Arsenic	mg/kg	4.6	4.6	2,000	NLV	NLV	37	391.3	NA	5.8	1.09	1.35	0.77	1.40	0.81	1.93
Barium	mg/kg	1,300	783(G)	1.00E+06(D)	NLV	NLV	1.30E+05	64,500	NA	75	46.6	20.2	14.0	48.4	29.0	32.7
Beryllium	mg/kg	51	329(G)	1.00E+06(D)	NLV	NLV	1,600	253.7	NA	--	0.22	0.18	<0.12	0.23	<0.12	0.20
Boron	mg/kg	10	140(X)	1.00E+06(D)	NLV	NLV	3.50E+05(DD)	ID	NA	--	<4.88	<5.0	<4.74	<4.98	<4.80	<5.12
Cadmium	mg/kg	6	5.39(G,X)	2.30E+05	NLV	NLV	2,100	946	NA	1.2	<0.12	0.12	<0.12	0.16	<0.12	0.17
Chromium VI (hexavalent)	mg/kg	30	3.3	1.40E+05	NLV	NLV	9,200	103.2	NA	--	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	1.00E+06(D)	4.62E+06(G,X)	1.00E+06(D)	NLV	NLV	1.00E+06(D)	64,500	NA	18	6.02 J	2.82 J	2.71 J	3.60 J	42.9 J ⁱ	2.95 J
Cobalt	mg/kg	0.8	2	48,000	NLV	NLV	9,000	2,537	NA	6.8	2.25	3.79	1.53	4.70	2.28	4.68
Copper	mg/kg	5,800	116(G)	1.00E+06(D)	NLV	NLV	73,000	25,370	NA	32	6.33	12.4	1.74	15.0	2.55	14.1
Lead	mg/kg	700	7,680(G,X)	ID	NLV	NLV	900(DD)	18,920	NA	21	3.96	5.57	1.69	7.07	2.72	7.02
Manganese	mg/kg	1	90.1(G,X)	1.80E+05	NLV	NLV	90,000	990	NA	440	178	260	175	312	214	314
Mercury	mg/kg	1.7	0.05(M)	47	89	26.66	580	3,784	NA	0.13	0.0126	0.0091	<0.0056	0.0134	0.0082	0.0127
Nickel	mg/kg	100	120(G)	1.00E+06(D)	NLV	NLV	1.50E+05	6,880	NA	20	22.2 ⁱ	10.4	4.49	13.5	4.86	11.9
Selenium	mg/kg	4	0.4	78,000	NLV	NLV	9,600	25,370	NA	0.41	<0.12	<0.12	0.15	0.12	<0.12	0.15
Silver	mg/kg	4.5	0.1(M)	2.00E+05	NLV	NLV	9,000	1,247	NA	1	<0.12	<0.12	<0.12	<0.12	<0.12	<0.13
Thallium	mg/kg	2.3	4.2(X)	15,000	NLV	NLV	130	2,537	NA	--	<0.12	<0.12	<0.12	0.14	<0.12	0.13
Vanadium	mg/kg	72	430	1.00E+06(D)	NLV	NLV	5,500(DD)	ID	NA	--	4.39 J	4.44 J	2.04 J	5.70 J	2.55 J	4.92 J
Zinc	mg/kg	2,400	261(G)	1.00E+06(D)	NLV	NLV	6.30E+05	ID	NA	47	7.43	14.9	3.36	18.9	5.67	20.4
Miscellaneous																
Flash point (closed cup)	mm/sec	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA
Total solids	%	--	--	--	--	--	--	--	--	--	87	89	91	84	91	84

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	CH-15-RO 2 - 3 08/15/11	CH-15-RO 19 - 20 08/15/11	LMW-12-11 10 - 11 11/20/12	MW-12-04 1 - 2 03/28/12	MW-12-04 26 - 27 03/28/12	MW-12-04 64 - 65 03/28/12	P3-SB-01 5 - 6 08/10/11	P3-SB-01 13 - 14 08/10/11	P3-SB-01 19 - 20 08/10/11	P3-SB-02 13 - 14 08/11/11	P3-SB-02 22 - 23 08/11/11	P3-SB-03 6 - 7 08/10/11	P3-SB-03 15 - 16 08/10/11	P3-SB-03 24 - 25 08/10/11	P3-SB-03 29 - 30 08/10/11	P3-SB-04 5 - 6 08/11/11	P3-SB-04 15 - 16 08/11/11	P3-SB-05 7 - 8 08/11/11
Volatile Organics																			
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<4 J [<4 J]	<3 J	NA	<3	<3	<3	NA	NA	NA	NA	NA	<3 J	<3 J	<3 J	<3 J	NA	NA	<3 J
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<1 [<1]	<1	NA	<1	<1	<1	NA	NA	NA	NA	NA	<1	<1	<1	<1	NA	NA	<1
1,2-Dichlorobenzene	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
1,4-Dichlorobenzene	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
2-Hexanone	ug/kg	<720 [<730]	<600	NA	<600	<510	<610	NA	NA	NA	NA	NA	<640	<630	<640	<580	NA	NA	<610
Acetone	ug/kg	<720 [<730]	<600	NA	<600	<510	<610	NA	NA	NA	NA	NA	<640	<630	<640	<580	NA	NA	<610
Bromodichloromethane	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
Bromoform	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
Bromomethane (Methyl bromide)	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
Carbon disulfide	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
Carbon tetrachloride	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
Chlorobenzene	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
Chloroform (Trichloromethane)	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
Chloromethane (Methyl chloride)	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
cis-1,3-Dichloropropene	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
Dichlorodifluoromethane (CFC-12)	ug/kg	<70 J [<70 J]	<60 J	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
Methyl acetate	ug/kg	<720 [<730]	<600	NA	<600	<510	<610	NA	NA	NA	NA	NA	<640	<630	<640	<580	NA	NA	<610
Methylene chloride	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
Styrene	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
trans-1,3-Dichloropropene	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
Trichlorofluoromethane (CFC-11)	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
Trifluorotrichloroethane (Freon 113)	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
1,4-Dioxane	ug/kg	<400 [<400]	<300	NA	<300	<300	<300	NA	NA	NA	NA	NA	<300	<300	<300	<300	NA	NA	<300
1,1,1-Trichloroethane	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
1,1,2,2-Tetrachloroethane	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
1,1,2-Trichloroethane	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
1,1-Dichloroethane	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
1,1-Dichloroethene	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
1,2-Dichloroethane	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
cis-1,2-Dichloroethene	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
trans-1,2-Dichloroethene	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
Trichloroethene	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
Tetrachloroethene	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
Vinyl chloride	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
Chloroethane	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
Benzene	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
Ethylbenzene	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
Toluene	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
o-Xylene	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
m&p-Xylene	ug/kg	<100 [<100]	<100	NA	<100	<100	<100	NA	NA	NA	NA	NA	<100	<100	<100	<100	NA	NA	<100
Xylene (total)	ug/kg	<170 [<170]	<160	NA	<160	<150	<160	NA	NA	NA	NA	NA	<160	<160	<160	<160	NA	NA	<160
Methyl tert butyl ether (MTBE)	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<720 [<730]	<600	NA	<600	<510	<610	NA	NA	NA	NA	NA	<640	<630	<640	<580	NA	NA	<610
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<720 [<730]	<600	NA	<600	<510	<610	NA	NA	NA	NA	NA	<640	<630	<640	<580	NA	NA	<610
1,2,4-Trichlorobenzene	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
1,3-Dichlorobenzene	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
Cyclohexane	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
Methyl cyclohexane	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
Dibromochloromethane	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
Isopropyl benzene	ug/kg	<70 [<70]	<60	NA	<60	<50	<60	NA	NA	NA	NA	NA	<60	<60	<60	<60	NA	NA	<60
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		CH-15-RO 2 - 3 08/15/11	CH-15-RO 19 - 20 08/15/11	LMW-12-11 10 - 11 11/20/12	MW-12-04 1 - 2 03/28/12	MW-12-04 26 - 27 03/28/12	MW-12-04 64 - 65 03/28/12	P3-SB-01 5 - 6 08/10/11	P3-SB-01 13 - 14 08/10/11	P3-SB-01 19 - 20 08/10/11	P3-SB-02 13 - 14 08/11/11	P3-SB-02 22 - 23 08/11/11	P3-SB-03 6 - 7 08/10/11	P3-SB-03 15 - 16 08/10/11	P3-SB-03 24 - 25 08/10/11	P3-SB-03 29 - 30 08/10/11	P3-SB-04 5 - 6 08/11/11	P3-SB-04 15 - 16 08/11/11	P3-SB-05 7 - 8 08/11/11
Semivolatile Organics																			
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40 J	<40 J	<40 J	<40 J	NA	NA	<40 J
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
2,4,6-Trichlorophenol	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
2,4-Dichlorophenol	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
2,4,5-Trichlorophenol	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
2,4-Dimethylphenol	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
2,4-Dinitrophenol	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	R	R	R	R	NA	NA	R
2,4-Dinitrotoluene	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
2,6-Dinitrotoluene	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
2-Chloronaphthalene	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
2-Chlorophenol	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
2-Methylnaphthalene	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
2-Methylphenol	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
2-Nitroaniline	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
2-Nitrophenol	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
3&4-Methylphenol	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
3,3'-Dichlorobenzidine	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
Naphthalene	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
3-Nitroaniline	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
4-Bromophenyl phenyl ether	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
4-Chloro-3-methylphenol	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
4-Chloroaniline	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
4-Chlorophenyl phenyl ether	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
4-Nitroaniline	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
4-Nitrophenol	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
Anthracene	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
Acenaphthene	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
Acenaphthylene	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
Acetophenone	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
Atrazine	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
Benzaldehyde	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
Benzo(a)anthracene	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
Benzo(a)pyrene	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
Benzo(b)fluoranthene	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
Benzo(g,h,i)perylene	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
Benzo(k)fluoranthene	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
bis(2-Chloroethoxy)methane	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
bis(2-Chloroethyl)ether	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
Butyl benzylphthalate (BBP)	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
Caprolactam	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
Carbazole	ug/kg	<40 [<40]	<40	NA	<40	<30	<40	NA	NA	NA	NA	NA	<40	<40	<40	<40	NA	NA	<40
Chrysene	ug/kg	<80 [<80]	<70	NA	<70														

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		CH-15-RO 2 - 3 08/15/11	CH-15-RO 19 - 20 08/15/11	LMW-12-11 10 - 11 11/20/12	MW-12-04 1 - 2 03/28/12	MW-12-04 26 - 27 03/28/12	MW-12-04 64 - 65 03/28/12	P3-SB-01 5 - 6 08/10/11	P3-SB-01 13 - 14 08/10/11	P3-SB-01 19 - 20 08/10/11	P3-SB-02 13 - 14 08/11/11	P3-SB-02 22 - 23 08/11/11	P3-SB-03 6 - 7 08/10/11	P3-SB-03 15 - 16 08/10/11	P3-SB-03 24 - 25 08/10/11	P3-SB-03 29 - 30 08/10/11	P3-SB-04 5 - 6 08/11/11	P3-SB-04 15 - 16 08/11/11	P3-SB-05 7 - 8 08/11/11
PCBs																			
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<6	<3	<3	NA	NA	<3
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<6	<3	<3	NA	NA	<3
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<6	<3	<3	NA	NA	<3
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<6	<3	<3	NA	NA	<3
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<6	<3	<3	NA	NA	<3
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	20	<3	<3	NA	NA	<3
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<6	<3	<3	NA	NA	<3
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	20	<3	<3	NA	NA	<3
Inorganics																			
Antimony	mg/kg	<0.13 [<0.14]	<0.12	NA	<0.22	<0.20	<0.22	<0.11	<0.12	<0.11 [<0.11]	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.11	<0.10	<0.11
Arsenic	mg/kg	1.85 [2.13]	1.56	NA	1.35	0.48	0.81	1.06	1.26	0.93 [0.91]	1.72	1.32	0.88	2.23	2.39	0.92	1.33	0.85	1.34
Barium	mg/kg	27.6 [32.9]	13.1	NA	24.0	3.72	42.8	20.7	34.2	15.7 [15.2]	15.9	22.0	24.4	10.6	7.89	6.12	17.8	11.9	21.8
Beryllium	mg/kg	0.31 [0.24]	0.12	NA	0.16	<0.10	0.82	0.15	0.26	0.11 [0.12]	0.15	0.11	0.24	0.12	<0.11	<0.11	0.14	0.10	0.15
Boron	mg/kg	<5.20 [<5.46]	<4.62	NA	<4.3	<4.0	<4.3	<3.94	<4.78	<4.56 [<4.56]	<4.28	<4.32	<4.58	<4.60	<4.32	<4.26	<4.48	<4.22	<4.28
Cadmium	mg/kg	0.16 [0.17]	<0.12	NA	0.13	<0.10	<0.11	<0.11	0.16	<0.11 [<0.11]	<0.11	<0.11	0.15	<0.12	0.11	<0.11	<0.11	0.10	<0.11
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	2.78 J [10.1 J]	2.09 J	NA	2.68	<1.0	<1.1	2.04	5.10	2.34 [2.55]	3.70	2.12	6.03	2.42	2.14	2.25	3.20	1.86	2.76
Cobalt	mg/kg	1.26 [1.72]	2.32	NA	2.01	<1.0	12.0 ^{abi}	2.81	4.59	2.77 [2.6]	2.51	2.87	3.47	2.62	1.68	0.63	3.19	2.32	2.95
Copper	mg/kg	3.67 [4.34]	7.71	NA	6.00	<1.0	13.1	2.81	14.6	4.11 [4.42]	8.21	5.91	9.66	8.02	4.95	5.68	3.17	4.59	3.89
Lead	mg/kg	5.56 [5.18]	3.98	NA	5.49	0.86	2.60	3.57	6.77	2.96 [2.78]	3.95	3.41	5.13	3.96	2.66	2.49	3.29	2.81	3.32
Manganese	mg/kg	113 [132]	226	NA	234 J	66.5 J	82.0 J	216	311	184 [188]	224	215	273	228	192	113	251	163	226
Mercury	mg/kg	0.0202 [0.0246]	0.0087	NA	0.0152	<0.0051	0.0094	0.0078	0.0116	0.0074 [0.0069]	0.0076	0.0071	0.0110	0.0082	<0.0053	<0.0053	0.0102	0.0070	0.0084
Nickel	mg/kg	1.14 [1.87]	7.25	NA	3.26	<1.0	40.5 ⁱ	6.21	13.1	5.55 [6.02]	8.81	7.39	10.6	8.27	5.74	4.09	6.27	5.99	8.85
Selenium	mg/kg	<0.13 [<0.14]	0.18	NA	<0.22	<0.20	0.28	0.19	0.27	<0.11 [<0.11]	0.22	<0.11	0.30	0.14	<0.11	<0.11	0.13	0.28	<0.11
Silver	mg/kg	<0.13 [<0.14]	<0.12	NA	0.05	<0.02	0.04	<0.11	<0.12	<0.11 [<0.11]	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.11	<0.10	<0.11
Thallium	mg/kg	<0.13 [<0.14]	<0.12	NA	<0.22	<0.20	<0.22	<0.11	0.13	<0.11 [<0.11]	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.11	<0.10	<0.11
Vanadium	mg/kg	9.62 J [9.33 J]	3.52 J	NA	4.54	0.69	1.15	4.29	7.67	4.04 [4.1]	3.34	3.41	7.62	4.27	3.42	3.18	5.06	3.60	4.55
Zinc	mg/kg	2.53 [3.41]	11.0	NA	10.0	3.58	1.87	5.60	20.7	7.79 [8.56]	10.0	9.91	16.2	18.4	24.2	7.51	6.10	9.74	7.29
Miscellaneous																			
Flash point (closed cup)	mm/sec	NA	NA	<2.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	82 [81]	91	NA	89	98	89	89	87	90 [90]	89	90	87	89	90	94	90	89	90

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	P3-SB-05 24 - 25 08/11/11	P3-SB-06 1 - 2 08/12/11	P3 - SB-06 2 - 3 08/12/11	P3-SB-06 11 - 12 08/12/11	P3-SB-06 24 - 25 08/12/11	P3-SB-07 4 - 5 08/15/11	P3-SB-07 29 - 30 08/15/11	P3-SB-08 2 - 3 08/16/11	P3-SB-08 11 - 12 08/16/11	P3-SB-08 29 - 30 08/16/11	P3-SB-09 2 - 3 08/16/11	P3-SB-09 17 - 18 08/16/11	P3-SB-09 25 - 26 08/16/11	P3-SB-10 2 - 3 08/17/11	P3-SB-10 22 - 23 08/17/11	P3-SB-10 28 - 29 08/17/11	P3-SB-11 2 - 3 08/23/11	P3-SB-11 9 - 10 08/23/11	P3-SB-12 3 - 4 08/24/11
Volatile Organics																				
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<4 J	<3 J	<3 J [<3 J]	<3 J	<3 J	<3 J	<3 J	<3 J	<3 J	<3 J	<3 J	<3 J	<3 J	<3 J	<3 J	<3 J	<3	<3	<3
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
1,4-Dichlorobenzene	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
2-Hexanone	ug/kg	<710	<520	<620 [<620]	<570	<580	<640	<620	<610	<590	<590	<620	<560	<590	<570	<530	<640	<520	<670	<660
Acetone	ug/kg	<710	<520	<620 [<620]	<570	<580	<640	<620	<610	<590	<590	<620	<560	<590	<570	<530	<640	<520	<670	<660
Bromodichloromethane	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
Bromoform	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
Bromomethane (Methyl bromide)	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
Carbon disulfide	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
Carbon tetrachloride	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
Chlorobenzene	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
Chloroform (Trichloromethane)	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
Chloromethane (Methyl chloride)	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
cis-1,3-Dichloropropene	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
Dichlorodifluoromethane (CFC-12)	ug/kg	<70	<50	<60 [<60]	<60	<60	<60 J	<60 J	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
Methyl acetate	ug/kg	<710	<520	<620 [<620]	<570	<580	<640	<620	<610	<590	<590	<620	<560	<590	<570	<530	<640	<520	<670	<660
Methylene chloride	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
Styrene	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
trans-1,3-Dichloropropene	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
Trichlorofluoromethane (CFC-11)	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
Trifluorotrichloroethane (Freon 113)	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
1,4-Dioxane	ug/kg	<400	<300	<300 [<300]	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
1,1,1-Trichloroethane	ug/kg	<70	<50	<60 [<60]	<60	90	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
1,1,2,2-Tetrachloroethane	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
1,1,2-Trichloroethane	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
1,1-Dichloroethane	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
1,1-Dichloroethene	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
1,2-Dichloroethane	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
cis-1,2-Dichloroethene	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
trans-1,2-Dichloroethene	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
Trichloroethene	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
Tetrachloroethene	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
Vinyl chloride	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
Chloroethane	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
Benzene	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
Ethylbenzene	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
Toluene	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
o-Xylene	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
m&p-Xylene	ug/kg	<100	<100	<100 [<100]	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Xylene (total)	ug/kg	<170	<150	<160 [<160]	<160	<160	<160	<160	<160	<160	<160	<160	<160	<160	<160	<150	<160	<150	<170	<170
Methyl tert butyl ether (MTBE)	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<710	<520	<620 [<620]	<570	<580	<640	<620	<610	<590	<590	<620	<560	<590	<570	<530	<640	<520	<670	<660
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<710	<520	<620 [<620]	<570	<580	<640	<620	<610	<590	<590	<620	<560	<590	<570	<530	<640	<520	<670	<660
1,2,4-Trichlorobenzene	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
1,3-Dichlorobenzene	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
Cyclohexane	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
Methyl cyclohexane	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
Dibromochloromethane	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
Isopropyl benzene	ug/kg	<70	<50	<60 [<60]	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<50	<60	<50	<70	<70
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		P3-SB-05 24 - 25 08/11/11	P3-SB-06 1 - 2 08/12/11	P3-SB-06 2 - 3 08/12/11	P3-SB-06 11 - 12 08/12/11	P3-SB-06 24 - 25 08/12/11	P3-SB-07 4 - 5 08/15/11	P3-SB-07 29 - 30 08/15/11	P3-SB-07 2 - 3 08/16/11	P3-SB-08 11 - 12 08/16/11	P3-SB-08 29 - 30 08/16/11	P3-SB-08 2 - 3 08/16/11	P3-SB-09 17 - 18 08/16/11	P3-SB-09 25 - 26 08/16/11	P3-SB-09 2 - 3 08/17/11	P3-SB-10 22 - 23 08/17/11	P3-SB-10 28 - 29 08/17/11	P3-SB-11 2 - 3 08/23/11	P3-SB-11 9 - 10 08/23/11	P3-SB-12 3 - 4 08/24/11
Semivolatle Organics																				
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<30 J	<40 J [<40]	<40 J	<40 J	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30 J	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30 J	<40 J
2,4,6-Trichlorophenol	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
2,4-Dichlorophenol	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30 J	<40
2,4,5-Trichlorophenol	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30 J	<40
2,4-Dimethylphenol	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30 J	<40
2,4-Dinitrophenol	ug/kg	R	R	R [<40]	R	R	<40	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<30 J	<40 J	<30 J	<40
2,4-Dinitrotoluene	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
2,6-Dinitrotoluene	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30 J	<40
2-Chloronaphthalene	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30 J	<40
2-Chlorophenol	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
2-Methylnaphthalene	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
2-Methylphenol	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<500	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
2-Nitroaniline	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30 J	<40
2-Nitrophenol	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30 J	<40 J
3&4-Methylphenol	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<500	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
3,3'-Dichlorobenzidine	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
Naphthalene	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
3-Nitroaniline	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30 J	<40
4-Bromophenyl phenyl ether	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
4-Chloro-3-methylphenol	ug/kg	<40 J	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
4-Chloroaniline	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<30 J	<40 J	<30 J	<40
4-Chlorophenyl phenyl ether	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30 J	<40
4-Nitroaniline	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
4-Nitrophenol	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
Anthracene	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	60	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
Acenaphthene	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
Acenaphthylene	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
Acetophenone	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30 J	<40
Atrazine	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30 J	<40
Benzaldehyde	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
Benzo(a)anthracene	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	100	360	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
Benzo(a)pyrene	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	80	360	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
Benzo(b)fluoranthene	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	70	320	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
Benzo(g,h,i)perylene	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	60	190	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
Benzo(k)fluoranthene	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	80	310	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30 J	<40
bis(2-Chloroethoxy)methane	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30 J	<40 J
bis(2-Chloroethyl)ether	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30 J	<40 J
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30 J	<40 J
Butyl benzylphthalate (BBP)	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30 J	<40
Caprolactam	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
Carbazole	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
Chrysene	ug/kg	<80	<70	<70 [<70]	<40	<70	<80	<70	130	480	<70	<70	<70	<70	<70	<70	<70	<70	<80	<80
Dibenz(a,h)anthracene	ug/kg	<80	<70	<70 [<70]	<40	<70	<80	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<80	<80
Dibenzofuran	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30 J	<40
Diethyl phthalate	ug/kg	<80	<70	<70 [<70]	<40	<70	<80	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<80	<80
Dimethyl phthalate	ug/kg	<80	<70	<70 [<70]	<40	<70	<80	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<110 B	<80
Di-n-butylphthalate (DBP)	ug/kg	<80	<70	<70 [<70]	<40	<70	<80	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70 J	<80
Di-n-octyl phthalate (DnOP)	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30 J	<40 J
Fluoranthene	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	240	820	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
Fluorene	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
Hexachlorobenzene	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
Hexachlorobutadiene	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30 J	<40
Hexachlorocyclopentadiene	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
Hexachloroethane	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30 J	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	50	180	<40	<40	<40	<40	<40	<40	<30	<40	<30	<40
Isophorone	ug/kg	<40	<30	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<30	<40	<30 J	<40
Nitrobenzene	ug/kg	<40 J	<30	<40 J [<40]	<40 J	<40														

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		P3-SB-05 24 - 25 08/11/11	P3-SB-06 1 - 2 08/12/11	P3-SB-06 2 - 3 08/12/11	P3-SB-06 11 - 12 08/12/11	P3-SB-06 24 - 25 08/12/11	P3-SB-07 4 - 5 08/15/11	P3-SB-07 29 - 30 08/15/11	P3-SB-07 2 - 3 08/16/11	P3-SB-08 11 - 12 08/16/11	P3-SB-08 29 - 30 08/16/11	P3-SB-08 2 - 3 08/16/11	P3-SB-09 17 - 18 08/16/11	P3-SB-09 25 - 26 08/16/11	P3-SB-09 2 - 3 08/17/11	P3-SB-10 22 - 23 08/17/11	P3-SB-10 28 - 29 08/17/11	P3-SB-11 2 - 3 08/23/11	P3-SB-11 9 - 10 08/23/11	P3-SB-12 3 - 4 08/24/11	
PCBs																					
Aroclor-1016 (PCB-1016)	ug/kg	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Aroclor-1221 (PCB-1221)	ug/kg	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Aroclor-1232 (PCB-1232)	ug/kg	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Aroclor-1242 (PCB-1242)	ug/kg	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Aroclor-1248 (PCB-1248)	ug/kg	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Aroclor-1254 (PCB-1254)	ug/kg	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Aroclor-1260 (PCB-1260)	ug/kg	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Total PCBs	ug/kg	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Inorganics																					
Antimony	mg/kg	<0.12	<0.10	<0.10 [<0.11]	<0.11	<0.11	<0.12	<0.12	<0.12	<0.12	<0.11	<0.12	<0.11	<0.12	<0.12	<0.11	<0.12	<0.10	<0.11	<0.12	
Arsenic	mg/kg	1.50	0.63	1.07 [1.03]	0.37	0.75	0.53	1.80	1.00	0.90	0.99	1.00	0.38	1.43	0.92	0.67	2.87	0.94	2.35	0.41	
Barium	mg/kg	25.3	5.04	32.3 [31.5]	6.81	20.5	38.2	14.9	23.7	19.4	17.5	29.1	3.85	21.8	15.7	4.89	11.6	3.6	7.9	17.0	
Beryllium	mg/kg	<0.12	<0.10	0.16 [0.14]	<0.11	<0.11	0.29	<0.12	0.14	0.12	<0.11	0.14	<0.11	<0.12	<0.12	<0.11	<0.12	<0.10	<0.11	<0.12	
Boron	mg/kg	<4.56	<3.50	<4.22 [<4.26]	<4.36	<4.38	<4.82	<4.76	<4.60	<4.62	<4.34	<4.86	<4.28	<4.82	<4.66	<4.28	<4.80	<3.96	<4.48	<4.72	
Cadmium	mg/kg	<0.12	<0.10	<0.10 [<0.11]	<0.11	<0.11	<0.12	<0.12	<0.12	<0.12	<0.11	<0.12	<0.11	<0.12	<0.12	<0.11	<0.12	<0.10	0.16	<0.12	
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	mg/kg	4.45	1.58	3.63 [2.58]	0.83	1.43	1.66 J	1.61 J	2.22	2.97	1.62	1.98	0.97	2.75	2.09	2.46	2.40	0.95	1.63	1.64	
Cobalt	mg/kg	2.89	1.00	3.82 [4.25]	1.07	1.49	3.13	1.83	2.68	2.03	1.28	3.05	0.64	3.27	1.54	0.39	1.88	1.31	1.16	2.20	
Copper	mg/kg	4.49	2.62	4.99 [4.45]	1.26	2.32	3.72	6.10	2.54	3.53	5.43	24.1	1.26	8.29	1.99	0.95	6.43	1.60	3.09	2.73	
Lead	mg/kg	2.41	2.15	4.47 [3.48]	1.36	1.69	4.33	3.51	2.83	2.79	2.88	3.54	0.84	3.36	1.87	0.76	3.91	1.74	2.79	2.17	
Manganese	mg/kg	217	98.0	282 [287]	108	251	119	186	212	157	173	238	78.4	177	201	57.7	265	206	219	274	
Mercury	mg/kg	0.0069	<0.0052	0.0112 [0.0096]	0.0075	<0.0056	0.0221	0.0079	0.0098	0.0085	0.0072	0.0141	<0.0053	0.0124	0.0066	<0.0051	0.0095	<0.0053	<0.0058	<0.0057	
Nickel	mg/kg	7.76	4.72	12.5 [9.92]	1.82	5.37	2.76	5.28	5.45	5.91	4.61	5.68	2.14	10.4	4.94	1.83	7.04	5.62	5.10	6.63	
Selenium	mg/kg	0.19	<0.10	0.10 [0.12]	<0.11	<0.11	<0.12	0.14	<0.12	<0.12	0.15	<0.12	<0.11	0.25	<0.12	<0.11	<0.12	0.16	<0.11	<0.12	
Silver	mg/kg	<0.12	<0.10	<0.10 [<0.11]	<0.11	<0.11	<0.12	<0.12	<0.12	<0.12	<0.11	<0.12	<0.11	<0.12	<0.12	<0.11	<0.12	<0.10	<0.11	<0.12	
Thallium	mg/kg	<0.12	<0.10	<0.10 [<0.11]	<0.11	<0.11	<0.12	<0.12	<0.12	<0.12	<0.11	<0.12	<0.11	<0.12	<0.12	<0.11	<0.12	<0.10	<0.11	<0.12	
Vanadium	mg/kg	3.08	1.48	4.92 [4.94]	1.31	2.31	3.54 J	2.54 J	4.05	3.75	2.29	3.91	0.85	3.32	2.65	0.82	3.83	1.38	2.87	3.08	
Zinc	mg/kg	8.07	3.45	8.99 [8.72]	2.49	5.58	6.30	9.54	5.46	6.94	7.70	5.88	1.66	5.40	4.01	1.80	10.9	5.27	8.34	7.98	
Miscellaneous																					
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total solids	%	82	97	89 [89]	93	90	88	90	90	91	92	89	95	91	92	98	89	96	86	87	

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	P3-SB-12 9 - 10 08/24/11	P3-SB-13 5 - 6 08/25/11	P3-SB-13 17 - 18 08/25/11	P3-SB-14 2 - 3 08/19/11	P3-SB-14 6 - 7 08/19/11	P3-SB-14 27 - 28 08/19/11	P3-SB-15 2 - 3 08/18/11	P3-SB-15 11 - 12 08/18/11	P3-SB-15 26 - 27 08/18/11	P3-SB-16 1 - 2 08/22/11	P3-SB-16 9 - 10 08/22/11	P3-SB-17 3 - 4 08/23/11	P3-SB-17 9 - 10 08/23/11	P3-SB-18 2 - 3 08/22/11	P3-SB-18 28 - 29 08/22/11	P3-SB-19 2 - 3 08/19/11	P3-SB-19 25 - 26 08/19/11	P3-SB-20 2 - 3 08/19/11	P3-SB-20 9 - 10 08/19/11
Volatile Organics																				
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<3	<3	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3 [<3]	<3	<3 J	<3	<3	<3	<3
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<2 J	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
1,4-Dichlorobenzene	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
2-Hexanone	ug/kg	<580	<660	<660	<580	<590 [<600]	<620	<620	<660	<590	<590	<600	<660	<580 [<580]	<600	<620	<630	<620	<630	<610
Acetone	ug/kg	<580	<660	<660	<580	<590 [<600]	<620	<620	<660	<590	<590	<600	<660	<580 [<580]	<600	<620	<630	<620	<630	<610
Bromodichloromethane	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
Bromoform	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
Bromomethane (Methyl bromide)	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
Carbon disulfide	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
Carbon tetrachloride	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
Chlorobenzene	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
Chloroform (Trichloromethane)	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
Chloromethane (Methyl chloride)	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
cis-1,3-Dichloropropene	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
Dichlorodifluoromethane (CFC-12)	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
Methyl acetate	ug/kg	<580	<660	<660	<580	<590 [<600]	<620	<620	<660	<590	<590	<600	<660	<580 [<580]	<600	<620	<630	<620	<630	<610
Methylene chloride	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
Styrene	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
trans-1,3-Dichloropropene	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
Trichlorofluoromethane (CFC-11)	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
Trifluorotrichloroethane (Freon 113)	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
1,4-Dioxane	ug/kg	<300	<300	<300	<300	<300 [<300]	<300	<300	<300	<300	<300	<300	<300	<300 [<300]	<300	<300	<300	<300	<300	1,100
1,1,1-Trichloroethane	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	240
1,1,2,2-Tetrachloroethane	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
1,1,2-Trichloroethane	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
1,1-Dichloroethane	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	70
1,1-Dichloroethene	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	70
1,2-Dichloroethane	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
cis-1,2-Dichloroethene	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
trans-1,2-Dichloroethene	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
Trichloroethene	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
Tetrachloroethene	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
Vinyl chloride	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
Chloroethane	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
Benzene	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
Ethylbenzene	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
Toluene	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
o-Xylene	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
m&p-Xylene	ug/kg	<100	<100	<100	<100	<100 [<100]	<100	<100	<100	<100	<100	<100	<100	<100 [<100]	<100	<100	<100	<100	<100	<100
Xylene (total)	ug/kg	<160	<170	<170	<160	<160 [<160]	<160	<160	<170	<160	<160	<160	<170	<160 [<160]	<160	<160	<160	<160	<160	<160
Methyl tert butyl ether (MTBE)	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<580	<660	<660	<580	<590 [<600]	<620	<620	<660	<590	<590	<600	<660	<580 [<580]	<600	<620	<630	<620	<630	<610
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<580	<660	<660	<580	<590 [<600]	<620	<620	<660	<590	<590	<600	<660	<580 [<580]	<600	<620	<630	<620	<630	<610
1,2,4-Trichlorobenzene	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
1,3-Dichlorobenzene	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
Cyclohexane	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
Methyl cyclohexane	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
Dibromochloromethane	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
Isopropyl benzene	ug/kg	<60	<70	<70	<60	<60 [<60]	<60	<60	<70	<60	<60	<60	<70	<60 [<60]	<60	<60	<60	<60	<60	<60
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	P3-SB-12	P3-SB-12	P3-SB-13	P3-SB-13	P3-SB-14	P3-SB-14	P3-SB-14	P3-SB-15	P3-SB-15	P3-SB-15	P3-SB-15	P3-SB-16	P3-SB-16	P3-SB-17	P3-SB-17	P3-SB-18	P3-SB-18	P3-SB-18	P3-SB-19	P3-SB-19	P3-SB-20	P3-SB-20
		9 - 10	5 - 6	17 - 18	2 - 3	6 - 7	27 - 28	2 - 3	11 - 12	26 - 27	1 - 2	9 - 10	3 - 4	9 - 10	2 - 3	28 - 29	2 - 3	25 - 26	2 - 3	9 - 10			
		08/24/11	08/25/11	08/25/11	08/19/11	08/19/11	08/19/11	08/19/11	08/18/11	08/18/11	08/18/11	08/18/11	08/22/11	08/22/11	08/23/11	08/23/11	08/22/11	08/22/11	08/19/11	08/19/11	08/19/11	08/19/11	
Semivolatle Organics																							
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40		
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40 J	<40 J	<40 J	<40 J [<40 J]	<40 J	<40 J	<40	<40	<40	<40	<40 J	<40 J	
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	
2,4-Dichlorophenol	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40 J]	<40	<40	<40	<40	<40	<40	<40	
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40 J]	<40	<40	<40	<40	<40	<40	<40	
2,4-Dimethylphenol	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40 J]	<40	<40	<40	<40	<40	<40	<40	
2,4-Dinitrophenol	ug/kg	<40	<40	<40	<40 J	<40 J [<40 J]	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<40	<40	<40 [<40 J]	<40	<40 J	<40	<40 J	<40	<40	<40	
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40 J]	<40	<40	<40	<40	<40	<40	<40	
2-Chloronaphthalene	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40 J]	<40	<40	<40	<40	<40	<40	<40	
2-Chlorophenol	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	
2-Methylnaphthalene	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	
2-Methylphenol	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	
2-Nitroaniline	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40 J]	<40	<40	<40	<40	<40	<40	<40	
2-Nitrophenol	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40 J	<40 J	<40 J	<40 J [<40 J]	<40 J	<40 J	<40	<40	<40	<40	<40 J	<40 J	
3&4-Methylphenol	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40 J	<40	<40	<40	<40	<40	
Naphthalene	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	
3-Nitroaniline	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40 J]	<40	<40	<40	<40	<40	<40	<40	
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	
4-Chloroaniline	ug/kg	<40	<40	<40	<40 J	<40 J [<40 J]	<40 J	<40 J	<40 J	<40 J	<40	<40	<40	<40	<40 [<40 J]	<40	<40	<40	<40 J	<40	<40	<40	
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40 J]	<40	<40	<40	<40	<40	<40	<40	
4-Nitroaniline	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	
4-Nitrophenol	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	
Anthracene	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	
Acenaphthene	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	
Acenaphthylene	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	
Acetophenone	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40 J]	<40	<40	<40	<40	<40	<40	<40	
Atrazine	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40 J]	<40	<40	<40	<40	<40	<40	<40	
Benzaldehyde	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	
Benzo(a)anthracene	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	
Benzo(a)pyrene	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	
Benzo(b)fluoranthene	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	
Benzo(g,h,i)perylene	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	
Benzo(k)fluoranthene	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40 J]	<40	<40	<40	<40	<40	<40	<40	
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40 J	<40 J	<40 J	<40 J	<40 J [<40 J]	<40 J	<40 J	<40	<40	<40 J	<40 J	<40 J	
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40 J	<40 J [<40 J]	<40 J	<40 J	<40	<40	<40	<40 J	<40 J	
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	40	40	60	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40 J	<40 J [<40 J]	<40	<40	<40	<40	<40	<40	<40	
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40 J]	<40	<40	<40	<40	<40	<40	<40	
Caprolactam	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	
Carbazole	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	
Chrysene	ug/kg	<70	<80	<80	<70	<70 [<70]	<70	<70	<80	<70	<70	<80	<70	<80	<70 [<70]	<70	<70	<80	<70	<70	<70	<70	
Dibenz(a,h)anthracene	ug/kg	<70	<80	<80	<70	<70 [<70]	<70	<70	<80	<70	<70	<80	<70	<80	<70 [<70]	<70	<70	<80	<70	<70	<70	<70	
Dibenzofuran	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40 J]	<40	<40	<40	<40	<40	<40	<40	
Diethyl phthalate	ug/kg	<70	<80	<80	<70	<70 [<70]	<70	<70	<80	<70	<70	<80	<70	<80	<70 [<70 J]	<70	<70	<80	<70	<70	<70	<70	
Dimethyl phthalate	ug/kg	<70	<80	<80	<70	<70 [<70]	<70	<70	<80	<70	<70	<80	<70	<80	<70 [<140 B]	<70	<70	<80	<70	<70	<70	<70	
Di-n-butylphthalate (DBP)	ug/kg	<70	<80	<80	<70	<70 [<70]	<70	<70	<80	<70	<70	<80	<70	<80	<70 [<70 J]	<70	<70	<80	<70	<70	<70	<70	
Di-n-octyl phthalate (DnOP)	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40 J	<40 J [<40 J]	<40	<40	<40	<40	<40	<40	<40	
Fluoranthene	ug/kg	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	5					

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		P3-SB-12 9 - 10 08/24/11	P3-SB-13 5 - 6 08/25/11	P3-SB-13 17 - 18 08/25/11	P3-SB-14 2 - 3 08/19/11	P3-SB-14 6 - 7 08/19/11	P3-SB-14 27 - 28 08/19/11	P3-SB-15 2 - 3 08/18/11	P3-SB-15 11 - 12 08/18/11	P3-SB-15 26 - 27 08/18/11	P3-SB-16 1 - 2 08/22/11	P3-SB-16 9 - 10 08/22/11	P3-SB-17 3 - 4 08/23/11	P3-SB-17 9 - 10 08/23/11	P3-SB-18 2 - 3 08/22/11	P3-SB-18 28 - 29 08/22/11	P3-SB-19 2 - 3 08/19/11	P3-SB-19 25 - 26 08/19/11	P3-SB-20 2 - 3 08/19/11	P3-SB-20 9 - 10 08/19/11
PCBs																				
Aroclor-1016 (PCB-1016)	ug/kg	<3	<3	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3 [<3]	<3	<3	<30	<3	<3	<3
Aroclor-1221 (PCB-1221)	ug/kg	<3	<3	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3 [<3]	<3	<3	<30	<3	<3	<3
Aroclor-1232 (PCB-1232)	ug/kg	<3	<3	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3 [<3]	<3	<3	<30	<3	<3	<3
Aroclor-1242 (PCB-1242)	ug/kg	<3	<3	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3 [<3]	<3	<3	<30	<3	<3	<3
Aroclor-1248 (PCB-1248)	ug/kg	<3	<3	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3 [<3]	<3	<3	<30	<3	<3	<3
Aroclor-1254 (PCB-1254)	ug/kg	<3	<3	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3 [<3]	<3	<3	<30	<3	<3	<3
Aroclor-1260 (PCB-1260)	ug/kg	<3	<3	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3 [<3]	<3	<3	<30	<3	<3	<3
Total PCBs	ug/kg	<3	<3	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3 [<3]	<3	<3	<30	<3	<3	<3
Inorganics																				
Antimony	mg/kg	<0.12	<0.12	<0.12	<0.10	<0.11 [<0.11]	<0.11	<0.12	<0.12	<0.12	<0.09	<0.10	<0.12	<0.10 [<0.1]	<0.11	<0.12	<0.12	<0.12	<0.11	<0.12
Arsenic	mg/kg	1.52	0.98	1.84	0.82	0.95 [0.93]	2.17	1.18	0.64	1.58	1.20	0.67	3.62	1.00 [0.74]	1.30	1.72	1.29	3.09	1.06	0.88
Barium	mg/kg	12.8	35.4	99.5 ⁱ	12.2	17.3 [19.2]	15.5	28.2	23.1	14.5	10.8	4.1	14.9	3.9 [4.2]	29.2	17.7	54.5	20.9	35.2	32.8
Beryllium	mg/kg	<0.12	0.18	0.25	<0.10	<0.11 [<0.11]	0.14	0.17	0.20	<0.12	<0.09	<0.10	<0.12	<0.10 [<0.1]	0.15	<0.12	0.19	0.13	0.16	0.18
Boron	mg/kg	<4.72	<4.76	<4.84	<4.28	<4.28 [<4.28]	<4.26	<4.84	<4.62	<4.66	<3.78	<3.82	<4.96	<3.84 [<3.86]	<4.46	<4.68	<4.62	<4.72	<4.44	<4.68
Cadmium	mg/kg	<0.12	<0.12	0.14	<0.10	<0.11 [<0.11]	0.16	<0.12	<0.12	<0.12	<0.09	<0.10	0.31	<0.10 [<0.1]	<0.11	<0.12	<0.12	0.12	<0.11	<0.12
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	2.13	3.96	4.28	3.37	3.35 [3.29]	3.76	5.52	4.95	3.11	1.97	0.59	2.00	0.85 [1.02]	2.60	1.97	5.86	3.74	6.39	5.11
Cobalt	mg/kg	2.08	2.38	5.16	1.70	2.31 [2.59]	3.55	3.69	3.73	2.46	1.08	0.49	3.63	0.86 [0.75]	2.82	2.21	4.38	2.84	4.97	3.51
Copper	mg/kg	5.63	10.2	2.95	2.58	3.28 [3.23]	9.23	10.3	11.8	7.53	12.2	1.53	11.7	2.25 [1.65]	4.14	7.38	7.38	8.21	5.54	5.82
Lead	mg/kg	3.31	4.71	5.36	2.09	2.58 [2.78]	4.68	5.32	5.34	3.63	1.93	1.38	5.63	1.63 [1.23]	3.55	3.70	4.25	4.16	4.26	3.73
Manganese	mg/kg	196	219	1,130 ^{abgi}	126	193 [252]	273	245	440	214	241	73.6	307	78.9 [66.5]	204	210	259	230	283	238
Mercury	mg/kg	<0.0054	0.0202	0.0137	<0.0054	0.0071 [<0.0056]	0.0086	0.0113	0.0106	<0.0052	<0.0054	<0.0053	0.0114	<0.0053 [<0.0054]	0.0111	0.0077	0.0100	0.0060	0.0103	0.0257
Nickel	mg/kg	6.36	5.73	5.04	4.45	5.83 [6.69]	9.81	9.09	8.97	7.01	4.59	2.26	10.7	2.20 [2.08]	7.04	6.35	11.1	7.75	11.1	9.82
Selenium	mg/kg	<0.12	0.18	<0.12	<0.10	0.21 [0.14]	<0.11	<0.12	<0.12	0.26	0.20	<0.10	0.59 ^{bi}	0.13 [<0.1]	0.30	<0.12	<0.12	0.13	<0.11	<0.12
Silver	mg/kg	<0.12	<0.12	<0.12	<0.10	<0.11 [<0.11]	<0.11	<0.12	<0.12	<0.12	<0.09	<0.10	<0.12	<0.10 [<0.1]	<0.11	<0.12	<0.12	<0.12	<0.11	<0.12
Thallium	mg/kg	<0.12	<0.12	<0.12	<0.10	<0.11 [<0.11]	0.13	<0.12	<0.12	<0.12	<0.09	<0.10	0.22	<0.10 [<0.1]	<0.11	<0.12	<0.12	<0.12	<0.11	<0.12
Vanadium	mg/kg	3.56	5.47	6.69	3.09	4.50 [4.48]	6.01	9.05	9.55	5.75	1.94	1.14	4.15	0.86 [0.73]	4.56	3.30	8.71	5.97	8.93	7.68
Zinc	mg/kg	8.03	10.0	17.1	5.35	9.13 [8.41]	20.6	17.0	16.7	12.4	20.7	4.09	27.2	6.50 [5.84]	8.96	17.1	15.2	22.0	12.9	13.4
Miscellaneous																				
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	91	88	87	94	91 [91]	90	90	88	91	94	94	88	94 [95]	91	90	88	89	90	89

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	P3-SB-21 3 - 4 08/24/11	P3-SB-21 9 - 10 08/24/11	P3-SB-22 3 - 4 08/25/11	P3-SB-22 27 - 28 08/25/11	P3-SB-23 4 - 5 08/18/11	P3-SB-23 19 - 20 08/18/11	P3-SB-24 3 - 4 08/18/11	P3-SB-24 9 - 10 08/18/11	P3-SB-25 1 - 2 08/18/11	P3-SB-25 9 - 10 08/18/11	P3-SB-26 6 - 7 08/18/11	P3-SB-26 11 - 12 08/18/11	P3-SB-26 19 - 20 08/18/11	P3-SB-27 4 - 5 08/23/11	P3-SB-27 14 - 15 08/23/11	P3-SB-28 2 - 3 08/16/11	P3-SB-28 12 - 13 08/16/11	P3-SB-29 11 - 12 08/16/11	P3-SB-29 19 - 20 08/16/11
Volatile Organics																				
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<3	<3	<3	<3	<3	<3	NA	NA	<6	<5	<3	500 J ^{ae}	<3	<5	<3	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<1	<2 J	<1	<2 J	<1	<1	NA	NA	<2	<2	<1	<1	<1	<2	<1	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
2-Hexanone	ug/kg	<690	<610	<650	<680	<620	<610	NA	NA	<1,200	<1,100	<640	<680	<640	<1,000	<590	NA	NA	NA	NA
Acetone	ug/kg	<690	<610	<650	<680	<620	<610	NA	NA	<1,200	<1,100	<640	<680	<640	<1,000	<590	NA	NA	NA	NA
Bromodichloromethane	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
Bromoform	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
Bromomethane (Methyl bromide)	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
Carbon disulfide	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
Carbon tetrachloride	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
Chlorobenzene	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
Chloroform (Trichloromethane)	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
Chloromethane (Methyl chloride)	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
cis-1,3-Dichloropropene	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
Dichlorodifluoromethane (CFC-12)	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
Methyl acetate	ug/kg	<690	<610	<650	<680	<620	<610	NA	NA	<1,200	<1,100	<640	<680	<640	<1,000	<590	NA	NA	NA	NA
Methylene chloride	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
Styrene	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
trans-1,3-Dichloropropene	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
Trichlorofluoromethane (CFC-11)	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
1,4-Dioxane	ug/kg	<300	<300	<300	<300	<300	<300	NA	NA	<600	<500	<300	<300	<300	<500	<300	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
1,1,2-Trichloroethane	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
1,1-Dichloroethane	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
1,1-Dichloroethene	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
1,2-Dichloroethane	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
cis-1,2-Dichloroethene	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
trans-1,2-Dichloroethene	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
Trichloroethene	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
Tetrachloroethene	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
Vinyl chloride	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
Chloroethane	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
Benzene	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
Ethylbenzene	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
Toluene	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
o-Xylene	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
m&p-Xylene	ug/kg	<100	<100	<100	<100	<100	<100	NA	NA	<200	<200	<100	<100	<100	<200	<100	NA	NA	NA	NA
Xylene (total)	ug/kg	<170	<160	<160	<170	<160	<160	NA	NA	<300	<300	<160	<170	<160	<300	<160	NA	NA	NA	NA
Methyl tert butyl ether (MTBE)	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<690	<610	<650	<680	<620	<610	NA	NA	<1,200	<1,100	<640	<680	<640	<1,000	<590	NA	NA	NA	NA
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<690	<610	<650	<680	<620	<610	NA	NA	<1,200	<1,100	<640	<680	<640	<1,000	<590	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
Cyclohexane	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
Methyl cyclohexane	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
Dibromochloromethane	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
Isopropyl benzene	ug/kg	<70	<60	<60	<70	<60	<60	NA	NA	<100	<100	<60	<70	<60	<100	<60	NA	NA	NA	NA
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		P3-SB-21	P3-SB-21	P3-SB-22	P3-SB-22	P3-SB-23	P3-SB-23	P3-SB-24	P3-SB-24	P3-SB-25	P3-SB-25	P3-SB-26	P3-SB-26	P3-SB-26	P3-SB-26	P3-SB-27	P3-SB-27	P3-SB-28	P3-SB-28	P3-SB-29	P3-SB-29
		3 - 4	9 - 10	3 - 4	27 - 28	4 - 5	19 - 20	3 - 4	9 - 10	1 - 2	9 - 10	6 - 7	11 - 12	19 - 20	4 - 5	14 - 15	2 - 3	12 - 13	11 - 12	19 - 20	
		08/24/11	08/24/11	08/25/11	08/25/11	08/18/11	08/18/11	08/18/11	08/18/11	08/18/11	08/18/11	08/18/11	08/18/11	08/18/11	08/23/11	08/23/11	08/16/11	08/16/11	08/16/11	08/16/11	
		Units																			
Semivolatle Organics																					
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40	<40	<40	<40	<40 J	<40 J	<40 J	<40 J	<50 J	<50	<400 J	<40	<40	<50 J	<30 J	<40	<40	<40	<40	
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
2,4-Dichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
2,4-Dimethylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
2,4-Dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40 J	<40 J	<50	<30	<40	<40	<40	<40	
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
2-Chloronaphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
2-Chlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
2-Methylnaphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
2-Methylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
2-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
2-Nitrophenol	ug/kg	<40	<40	<40	<40	<40 J	<40 J	<40 J	<40 J	<50 J	<50	<400 J	<40	<40	<50 J	<30 J	<40	<40	<40	<40	
3&4-Methylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
Naphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
3-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
4-Chloroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40 J	<40 J	<50	<30	<40	<40	<40	<40	
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
4-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
4-Nitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
Anthracene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
Acenaphthene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
Acenaphthylene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
Acetophenone	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
Atrazine	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
Benzaldehyde	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
Benzo(a)anthracene	ug/kg	<40	<40	<40	<40	<40	<40	70	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
Benzo(a)pyrene	ug/kg	<40	<40	<40	<40	<40	<40	70	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
Benzo(b)fluoranthene	ug/kg	<40	<40	<40	<40	<40	<40	50	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
Benzo(g,h,i)perylene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
Benzo(k)fluoranthene	ug/kg	<40	<40	<40	<40	<40	<40	50	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<40	<40	<40 J	<40 J	<40 J	<40 J	<50 J	<50	<400 J	<40	<40	<50 J	<30 J	<40	<40	<40	<40	
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<40	<40	<40 J	<40 J	<40 J	<40 J	<50 J	<50	<400 J	<40	<40	<50 J	<30 J	<40	<40	<40	<40	
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<40	70	50	50	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50 J	<30 J	<40	<40	<40	<40	
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	600 J	<40	<40	<50	<30	<40	<40	<40	<40	
Caprolactam	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
Carbazole	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
Chrysene	ug/kg	<80	<70	<70	<80	<70	<70	90	<80	<100	<100	<700 J	<80	<80	<100	<70	<70	<70	<70	<70	
Dibenz(a,h)anthracene	ug/kg	<80	<70	<70	<80	<70	<70	<70	<80	<100	<100	<700 J	<80	<80	<100	<70	<70	<70	<70	<70	
Dibenzofuran	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
Diethyl phthalate	ug/kg	<80	<70	<70	<80	<70	<70	<70	<80	<100	<100	<700 J	<80	<80	<100	<70	<70	<70	<70	<70	
Dimethyl phthalate	ug/kg	<80	<70	<70	<80	<70	<70	<70	<80	<100	<300 B	<700 J	<80	<80	<100	<70	<70	<70	<70	<70	
Di-n-butylphthalate (DBP)	ug/kg	<80	<70	<70	<80	<70	<70	<70	<80	<100	<100	<700 J	<80	<80	<100	<70	<70	<70	<70	<70	
Di-n-octyl phthalate (DnOP)	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50 J	<30 J	<40	<40	<40	<40	
Fluoranthene	ug/kg	<40	<40	<40	<40	<40	<40	170	<40	<50	<50	<400 J	60	<40	<50	<30	<40	<40	<40	<40	
Fluorene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
Hexachlorobenzene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
Hexachlorobutadiene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
Hexachlorocyclopentadiene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
Hexachloroethane	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
Isophorone	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<50	<50	<400 J	<40	<40	<50	<30	<40	<40	<40	<40	
Nitro																					

TABLE 14

RFI Phase 2 Summary Report

RACER Plant 3

Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		P3-SB-21 3 - 4 08/24/11	P3-SB-21 9 - 10 08/24/11	P3-SB-22 3 - 4 08/25/11	P3-SB-22 27 - 28 08/25/11	P3-SB-23 4 - 5 08/18/11	P3-SB-23 19 - 20 08/18/11	P3-SB-24 3 - 4 08/18/11	P3-SB-24 9 - 10 08/18/11	P3-SB-25 1 - 2 08/18/11	P3-SB-25 9 - 10 08/18/11	P3-SB-26 6 - 7 08/18/11	P3-SB-26 11 - 12 08/18/11	P3-SB-26 19 - 20 08/18/11	P3-SB-27 4 - 5 08/23/11	P3-SB-27 14 - 15 08/23/11	P3-SB-28 2 - 3 08/16/11	P3-SB-28 12 - 13 08/16/11	P3-SB-29 11 - 12 08/16/11	P3-SB-29 19 - 20 08/16/11
PCBs																				
Aroclor-1016 (PCB-1016)	ug/kg	<3	<3	<3	<3	<3	<3	NA	NA	<4	<4	<6	<3	<3	<3	<3	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	<3	<3	<3	<3	<3	<3	NA	NA	<4	<4	<6	<3	<3	<3	<3	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	<3	<3	<3	<3	<3	<3	NA	NA	<4	<4	<6	<3	<3	<3	<3	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	<3	<3	<3	<3	<3	<3	NA	NA	<4	<4	<6	<3	<3	<3	<3	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	<3	<3	<3	<3	<3	<3	NA	NA	<4	<4	<6	<3	<3	<3	<3	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	<3	<3	<3	<3	<3	<3	NA	NA	<4	<4	60	<3	<3	<3	<3	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	<3	<3	<3	<3	<3	<3	NA	NA	<4	<4	<6	<3	<3	<3	<3	NA	NA	NA	NA
Total PCBs	ug/kg	<3	<3	<3	<3	<3	<3	NA	NA	<4	<4	60	<3	<3	<3	<3	NA	NA	NA	NA
Inorganics																				
Antimony	mg/kg	<0.12	<0.12	<0.12	<0.13	<0.11	<0.12	<0.11	<0.13	2.11	1.52	<0.10	<0.13	<0.13	0.32	<0.10	<0.11	<0.11	<0.12 [<0.12]	<0.12
Arsenic	mg/kg	1.75	2.24	1.19	2.49	0.58	1.33	1.34	1.03	82.8 ^{abfi}	77.2 ^{abfi}	0.70	1.91	1.25	37.5 ^{abfi}	0.95	1.14	1.48	1.11 [1.75]	1.79
Barium	mg/kg	9.9	12.1	32.9	13.3	50.6	19.8	34.0	58.3	354 ⁱ	245 ⁱ	7.02	53.3	20.5	226 ⁱ	3.4	7.56	13.9	15.1 [21.1]	22.2
Beryllium	mg/kg	<0.12	<0.12	0.15	<0.13	0.23	0.14	0.15	0.35	6.25	5.82	<0.10	0.53	0.18	5.75	<0.10	<0.11	<0.11	<0.12 [0.13]	0.13
Boron	mg/kg	<5.0	<4.76	<4.90	<5.08	<4.56	<4.72	<4.48	<5.04	137 ^a	141 ^{ab}	<4.10	<5.16	<5.06	17.1 ^a	<3.92	<4.48	<4.58	<4.72 [<4.76]	<4.88
Cadmium	mg/kg	<0.12	<0.12	<0.12	0.21	0.13	<0.12	0.13	0.38	0.54	0.48	<0.10	0.50	<0.13	0.43	<0.10	<0.11	<0.11	<0.12 [<0.12]	<0.12
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	3.02	2.37	2.69	2.21	3.10	2.75	3.16	4.12	33.6 ⁱ	27.8 ⁱ	1.82	6.07	5.23	29.6 ⁱ	0.50	1.15 J	1.92 J	2.57 J [2.4 J]	2.25 J
Cobalt	mg/kg	1.21	2.27	2.43	2.65	2.13	2.96	3.88	3.35	13.9 ^{abi}	12.4 ^{abi}	1.31	1.47	4.00	16.4 ^{abi}	0.66	1.74	2.10	2.21 [2.87]	2.81
Copper	mg/kg	4.55	7.24	3.67	8.43	8.09	9.80	7.25	23.0	73.7 ⁱ	61.4 ⁱ	3.20	18.1	9.59	51.1 ⁱ	1.19	2.74	6.79	4.65 [10.3]	9.05
Lead	mg/kg	2.68	3.44	3.61	4.25	5.42	4.45	6.65	9.27	24.6 ⁱ	20.0	1.90	15.7	6.42	22.7 ⁱ	1.12	2.03	3.42	2.60 [4.28]	4.27
Manganese	mg/kg	178	225	205	256	327	266	279	204	86.0	67.9	108	40.7	392	68.5	86.0	125	200	180 [253]	239
Mercury	mg/kg	<0.0060	0.0066	0.0279	0.0074	0.0273	0.0087	0.0156	0.0183	0.0627	0.0959	<0.0056	0.0375	0.0083	0.0389	<0.0051	0.0057	0.0085	0.0073 [0.0101]	0.0080
Nickel	mg/kg	3.84	7.06	5.58	8.69	4.40	8.76	8.75	8.93	30.1 ⁱ	25.9 ⁱ	3.94	5.42	11.1	32.9 ⁱ	2.14	4.03	7.03	5.19 [8.4]	9.06
Selenium	mg/kg	0.59 ^{bi}	<0.12	0.13	0.41	0.12	0.18	0.25	0.20	11.3 ^{abi}	9.16 ^{abi}	<0.10	0.53 ^{bi}	0.31	5.41 ^{abi}	0.10	<0.11	0.42 ^{bi}	<0.12 [0.29]	0.35
Silver	mg/kg	<0.12	<0.12	<0.12	<0.13	<0.11	<0.12	<0.11	<0.13	0.18	<0.16	<0.10	<0.13	<0.13	<0.16	<0.10	<0.11	<0.11	<0.12 [<0.12]	<0.12
Thallium	mg/kg	<0.12	<0.12	<0.12	<0.13	<0.11	<0.12	<0.11	<0.13	3.08 ^a	1.85	<0.10	<0.13	<0.13	1.32	<0.10	<0.11	<0.11	<0.12 [<0.12]	<0.12
Vanadium	mg/kg	3.90	3.90	4.92	4.10	6.78	4.83	4.81	13.1	124 ^a	125 ^a	2.44	9.50	7.68	83.4 ^a	0.79	1.88 J	3.48 J	3.10 J [4.09 J]	3.64 J
Zinc	mg/kg	5.80	11.7	8.08	19.7	9.18	13.8	16.1	38.1	48.9 ⁱ	41.8	5.16	15.0	16.2	47.9 ⁱ	4.87	4.13	9.58	6.97 [13]	12.6
Miscellaneous																				
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	84	91	89	85	89	90	92	82	61	63	89	84	87	69	96	90	92	92 [90]	90

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		P3-SB-30 4 - 5 08/12/11	P3-SB-30 14 - 15 08/12/11	P3-SB-31 2 - 3 08/18/11	P3-SB-31 9 - 10 08/18/11	P3-SB-32 2 - 3 08/22/11	P3-SB-32 9 - 10 08/22/11	P3-SB-33 2 - 3 08/22/11	P3-SB-33 9 - 10 08/22/11	P3-SB-34 4 - 5 08/17/11	P3-SB-34 17 - 18 08/17/11	P3-SB-34 26 - 27 08/17/11	P3-SB-35 2 - 3 08/17/11	P3-SB-35 13 - 14 08/17/11	P3-SB-35 21 - 22 08/17/11	SB-A11-GX24 2 - 3 09/19/12	SB-A11-GX24 8 - 9 09/19/12	SB-A11-GX24 13 - 14 09/19/12
Volatile Organics																		
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
1,2-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
1,4-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
2-Hexanone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<570	<570	<610
Acetone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<570	<570	<610
Bromodichloromethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
Bromoform	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
Carbon disulfide	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
Carbon tetrachloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
Chlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
Chloroform (Trichloromethane)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
Chloromethane (Methyl chloride)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
cis-1,3-Dichloropropene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<570	<570	<610
Methylene chloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
Styrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
trans-1,3-Dichloropropene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
Trifluorotrichloroethane (Freon 113)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	2,120 ^b
1,1,2,2-Tetrachloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
1,1,2-Trichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
1,1-Dichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	1,070
1,1-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
1,2-Dichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
cis-1,2-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	890
trans-1,2-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	100
Trichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	100
Tetrachloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	470 ^a	210 ^a	550 ^a
Vinyl chloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
Chloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
Benzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
Ethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
Toluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
o-Xylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
m&p-Xylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100	<100	<100
Xylene (total)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<160	<160	<160
Methyl tert butyl ether (MTBE)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<570	<570	<610
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<570	<570	<610
1,2,4-Trichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
1,3-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
Cyclohexane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
Methyl cyclohexane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
Dibromochloromethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
Isopropyl benzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<60
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		P3-SB-30 4 - 5 08/12/11	P3-SB-30 14 - 15 08/12/11	P3-SB-31 2 - 3 08/18/11	P3-SB-31 9 - 10 08/18/11	P3-SB-32 2 - 3 08/22/11	P3-SB-32 9 - 10 08/22/11	P3-SB-33 2 - 3 08/22/11	P3-SB-33 9 - 10 08/22/11	P3-SB-34 4 - 5 08/17/11	P3-SB-34 17 - 18 08/17/11	P3-SB-34 26 - 27 08/17/11	P3-SB-35 2 - 3 08/17/11	P3-SB-35 13 - 14 08/17/11	P3-SB-35 21 - 22 08/17/11	SB-A11-GX24 2 - 3 09/19/12	SB-A11-GX24 8 - 9 09/19/12	SB-A11-GX24 13 - 14 09/19/12
Semivolatile Organics																		
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40 J	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40	<40	<40 J	<40 J [<40 J]	<40 J	<40 J [<40 J]	<40 J	<40 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/kg	R	R	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/kg	<40 J	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/kg	930	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/kg	<40	<40	<40 J	<40 J [<40 J]	<40 J	<40 J [<40 J]	<40 J	<40 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	150	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/kg	<40	<40	40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/kg	<40	<40	50	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/kg	<40	<40	40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/kg	<40	<40	40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/kg	190	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<40 J	<40 J [<40 J]	<40 J	<40 J [<40 J]	<40 J	<40 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<40 J	<40 J [<40 J]	<40 J	<40 J [<40 J]	<40 J	<40 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/kg	<70	<70	<80	<80 [<80]	<70	<70 [<70]	<80	<70	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/kg	<70	<70	<80	<80 [<80]	<70	<70 [<70]	<80	<70	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/kg	<70	<70	<80	<80 [<80]	<70	<70 [<70]	<80	<70	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/kg	<70	<70	<80	<80 [<80]	<70	<70 [<70]	<80	<70	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/kg	<70	<70	<80	<80 [<80]	<70	<70 [<70]	<80	<70	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/kg	<40	<40	100	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/kg	120	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/kg	<40 J	<40 J	<40 J	<40 J [<40 J]	<40 J	<40 J [<40 J]	<40 J	<40 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/kg	<40	<40	50	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/kg	<40	<40	80	<40 [<40]	<40	<40 [<40]	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		P3-SB-30 4 - 5 08/12/11	P3-SB-30 14 - 15 08/12/11	P3-SB-31 2 - 3 08/18/11	P3-SB-31 9 - 10 08/18/11	P3-SB-32 2 - 3 08/22/11	P3-SB-32 9 - 10 08/22/11	P3-SB-33 2 - 3 08/22/11	P3-SB-33 9 - 10 08/22/11	P3-SB-34 4 - 5 08/17/11	P3-SB-34 17 - 18 08/17/11	P3-SB-34 26 - 27 08/17/11	P3-SB-35 2 - 3 08/17/11	P3-SB-35 13 - 14 08/17/11	P3-SB-35 21 - 22 08/17/11	SB-A11-GX24 2 - 3 09/19/12	SB-A11-GX24 8 - 9 09/19/12	SB-A11-GX24 13 - 14 09/19/12
PCBs																		
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																		
Antimony	mg/kg	<0.11	<0.10	<0.12	<0.11 [<u><0.1</u>]	<0.11	<0.12 [<u><0.11</u>]	<0.12	<0.11	<0.12 [<u><0.12</u>]	<0.12	<0.12	<0.11	<0.12	<0.12	NA	NA	NA
Arsenic	mg/kg	1.02	1.86	0.60	0.66 [1.33]	1.24	1.27 [1.42]	0.63	0.95	0.36 [0.4]	1.95	1.89	0.87	1.72	0.90	NA	NA	NA
Barium	mg/kg	28.8	17.7	60.2	11.3 [13.3]	32.6	29.0 [26.2]	77.9¹	19.9	18.3 [16.4]	15.4	13.2	47.0	36.7	21.5	NA	NA	NA
Beryllium	mg/kg	0.13	<0.10	0.40	0.11 [0.16]	0.16	0.15 [0.13]	0.23	0.13	0.15 [0.13]	<0.12	<0.12	0.25	0.21	0.12	NA	NA	NA
Boron	mg/kg	<4.50	<3.98	<4.84	<4.30 [<u><4.04</u>]	<4.54	<4.76 [<u><4.28</u>]	<4.90	<4.36	<4.82 [<u><4.76</u>]	<4.84	<4.60	<4.26	<4.68	<4.72	NA	NA	NA
Cadmium	mg/kg	0.11	<0.10	0.15	<0.11 [<u><0.1</u>]	<0.11	<0.12 [<u><0.11</u>]	0.35	<0.11	<0.12 [<u><0.12</u>]	0.14	<0.12	<0.11	0.16	<0.12	NA	NA	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	3.01	2.54	4.43	2.06 [1.93]	2.59	2.56 [2.41]	2.63	2.14	2.85 [2.73]	2.12	1.78	2.76	3.88	2.74	NA	NA	NA
Cobalt	mg/kg	2.84	2.59	3.56	1.89 [2.21]	3.42	3.97 [2.64]	2.50	2.38	1.09 [0.96]	1.81	1.66	2.97	4.53	2.91	NA	NA	NA
Copper	mg/kg	8.31	7.17	5.60	5.01 [7.97]	4.32	4.98 [3.97]	7.51	3.99	7.98 [7.56]	7.42	6.60	6.93	12.5	4.95	NA	NA	NA
Lead	mg/kg	4.00	3.40	9.04	2.73 [2.54]	3.92	40.3 J [5.65 J]¹	5.42	3.24	4.39 [4]	4.27	3.36	7.00	6.34	3.26	NA	NA	NA
Manganese	mg/kg	217	213	251	105 [117]	278	236 [169]	525^{abi}	191	175 [191]	268	213	295	270	221	NA	NA	NA
Mercury	mg/kg	0.0081	0.0077	0.0320	0.0080 [<u><0.0058</u>]	0.0115	0.0098 [0.0099]	0.0376	0.0096	0.0058 [<u><0.0058</u>]	0.0075	0.0076	0.0245	0.0119	0.0077	NA	NA	NA
Nickel	mg/kg	7.78	7.98	5.06	5.32 [5.81]	7.24	9.14 [6.25]	3.52	5.74	4.39 [4.16]	6.40	5.21	4.51	11.5	7.09	NA	NA	NA
Selenium	mg/kg	0.22	0.27	0.14	<0.11 [0.13]	0.35	0.31 [<u><0.11</u>]	0.12	0.32	0.34 [0.17]	0.39	0.12	0.13	0.37	0.20	NA	NA	NA
Silver	mg/kg	<0.11	<0.10	<0.12	<0.11 [<u><0.1</u>]	<0.11	<0.12 [<u><0.11</u>]	<0.12	<0.11	<0.12 [<u><0.12</u>]	<0.12	<0.12	<0.11	<0.12	<0.12	NA	NA	NA
Thallium	mg/kg	<0.11	<0.10	<0.12	<0.11 [<u><0.1</u>]	<0.11	<0.12 [<u><0.11</u>]	<0.12	<0.11	<0.12 [<u><0.12</u>]	<0.12	<0.12	<0.11	0.12	<0.12	NA	NA	NA
Vanadium	mg/kg	4.83	3.73	8.96	3.57 [5.03]	4.93	4.05 [4.27]	5.55	3.53	7.84 [7.22]	4.12	3.13	5.77	6.25	4.43	NA	NA	NA
Zinc	mg/kg	11.5	10.7	11.9	9.00 [8.4]	7.90	9.67 [8.79]	10.2	8.78	7.69 [7.41]	20.5	14.8	7.76	21.1	11.9	NA	NA	NA
Miscellaneous																		
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	89	91	87	85 [86]	92	90 [90]	86	89	88 [88]	90	90	90	87	90	92	94	90

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	SB-A11-GX24 19 - 20 09/19/12	SB-A11-GX24 24 - 25 09/19/12	SB-A11-GX24 29 - 30 09/19/12	SB-A11-HA24 3 - 4 09/10/12	SB-A11-HA24 8 - 9 09/10/12	SB-A11-HA24 13 - 14 09/10/12	SB-A11-HA24 19 - 20 09/10/12	SB-A11-HA24 25 - 26 09/10/12	SB-A11-HA24 31 - 32 09/10/12	SB-A11-HA28 2 - 3 09/20/12	SB-A11-HA28 8 - 9 09/20/12	SB-A11-HA28 19 - 20 09/20/12	SB-A11-HC24 1.9 - 2.5 05/22/12	SB-A11-HC24 12 - 13 05/22/12	SB-A11-HD20 3 - 4 09/07/12
Volatile Organics																
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
1,2-Dichlorobenzene	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
1,4-Dichlorobenzene	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
2-Hexanone	ug/kg	<650	<560	<530	<630	<630	<590	<650	<620	<540	NA	NA	NA	<720	<750	<650 [<660]
Acetone	ug/kg	<650	<560	<530	<630	<630	<590	<650	<620	<540	NA	NA	NA	<1,800	<1,900	<650 [<660]
Bromodichloromethane	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
Bromoform	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
Bromomethane (Methyl bromide)	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	NA	NA	<70 [<70]
Carbon disulfide	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
Carbon tetrachloride	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
Chlorobenzene	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
Chloroform (Trichloromethane)	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
Chloromethane (Methyl chloride)	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<180	<190	<70 [<70]
cis-1,3-Dichloropropene	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
Dichlorodifluoromethane (CFC-12)	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	NA	NA	<70 [<70]
Methyl acetate	ug/kg	<650	<560	<530	<630	<630	<590	<650	<620	<540	NA	NA	NA	NA	NA	<650 [<660]
Methylene chloride	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
Styrene	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
trans-1,3-Dichloropropene	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
Trichlorofluoromethane (CFC-11)	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	NA	NA	<70 [<70]
Trifluorotrichloroethane (Freon 113)	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<720	<750	NA
1,1,1-Trichloroethane	ug/kg	<70	<60	<50	70	60	730	<60	<60	<50	NA	NA	NA	460	<75	<70 [<70]
1,1,2,2-Tetrachloroethane	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
1,1,2-Trichloroethane	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
1,1-Dichloroethane	ug/kg	2,190	4,560	<50	<60	<60	160	<60	<60	<50	NA	NA	NA	170	6,900	<70 [<70]
1,1-Dichloroethene	ug/kg	<70	<60	<50	<60	<60	190 ^a	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
1,2-Dichloroethane	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
cis-1,2-Dichloroethene	ug/kg	670	360	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
trans-1,2-Dichloroethene	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
Trichloroethene	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
Tetrachloroethene	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	46 J	<75	<70 [<70]
Vinyl chloride	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
Chloroethane	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
Benzene	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
Ethylbenzene	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
Toluene	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
o-Xylene	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
m&p-Xylene	ug/kg	<100	<100	<100	<100	<100	<100	<100	<100	<100	NA	NA	NA	<140	<150	<100 [<100]
Xylene (total)	ug/kg	<170	<160	<150	<160	<160	<160	<160	<160	<150	NA	NA	NA	<212	<225	<170 [<170]
Methyl tert butyl ether (MTBE)	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<650	<560	<530	<630	<630	<590	<650	<620	<540	NA	NA	NA	<720	<750	<650 [<660]
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<650	<560	<530	<630	<630	<590	<650	<620	<540	NA	NA	NA	<720	<750	<650 [<660]
1,2,4-Trichlorobenzene	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<72	<75	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<72	<75	NA
1,2-Dichloropropane	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
1,3-Dichlorobenzene	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
Cyclohexane	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
Methyl cyclohexane	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
Dibromochloromethane	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
Isopropyl benzene	ug/kg	<70	<60	<50	<60	<60	<60	<60	<60	<50	NA	NA	NA	<72	<75	<70 [<70]
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<72	<75	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A11-GX24 19 - 20 09/19/12	SB-A11-GX24 24 - 25 09/19/12	SB-A11-GX24 29 - 30 09/19/12	SB-A11-HA24 3 - 4 09/10/12	SB-A11-HA24 8 - 9 09/10/12	SB-A11-HA24 13 - 14 09/10/12	SB-A11-HA24 19 - 20 09/10/12	SB-A11-HA24 25 - 26 09/10/12	SB-A11-HA24 31 - 32 09/10/12	SB-A11-HA28 2 - 3 09/20/12	SB-A11-HA28 8 - 9 09/20/12	SB-A11-HA28 19 - 20 09/20/12	SB-A11-HC24 1.9 - 2.5 05/22/12	SB-A11-HC24 12 - 13 05/22/12	SB-A11-HD20 3 - 4 09/07/12
Semivolatile Organics																
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
2,4,6-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
2,4-Dichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
2,4,5-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
2,4-Dimethylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
2,4-Dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
2,4-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
2,6-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
2-Chloronaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
2-Chlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
2-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
2-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
2-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
2-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
3&4-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<80	<80	NA
3,3'-Dichlorobenzidine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
3-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
4-Bromophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
4-Chloro-3-methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
4-Chloroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
4-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
4-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Acenaphthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Acenaphthylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Acetophenone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Atrazine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Benzaldehyde	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Benzo(a)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Benzo(a)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Benzo(b)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Benzo(g,h,i)perylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Benzo(k)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Biphenyl (1,1-Biphenyl)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
bis(2-Chloroethoxy)methane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
bis(2-Chloroethyl)ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<80	<80	NA
Butyl benzylphthalate (BBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Caprolactam	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Chrysene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Dibenz(a,h)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<80	<80	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Diethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<80	<80	NA
Dimethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<250 B	<330 B	NA
Di-n-butylphthalate (DBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<80	<80	NA
Di-n-octyl phthalate (DnOP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<80	<80	NA
Fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Fluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Hexachlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Hexachlorobutadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Hexachlorocyclopentadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Hexachloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Indeno(1,2,3-cd)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Isophorone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Nitrobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
N-Nitrosodi-n-propylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
N-Nitrosodiphenylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Pentachlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Phenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Phenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA
Pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A11-GX24 19 - 20 09/19/12	SB-A11-GX24 24 - 25 09/19/12	SB-A11-GX24 29 - 30 09/19/12	SB-A11-HA24 3 - 4 09/10/12	SB-A11-HA24 8 - 9 09/10/12	SB-A11-HA24 13 - 14 09/10/12	SB-A11-HA24 19 - 20 09/10/12	SB-A11-HA24 25 - 26 09/10/12	SB-A11-HA24 31 - 32 09/10/12	SB-A11-HA28 2 - 3 09/20/12	SB-A11-HA28 8 - 9 09/20/12	SB-A11-HA28 19 - 20 09/20/12	SB-A11-HC24 1.9 - 2.5 05/22/12	SB-A11-HC24 12 - 13 05/22/12	SB-A11-HD20 3 - 4 09/07/12
PCBs																
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.77	1.13	1.72	1.42	6.66 ^{abi}	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.81	33.1	26.0	27.3	9.20	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.20	0.23	NA
Boron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.0	<4.0	<4.0	<4.1	<4.0	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10	0.10	<0.10	<0.10	<0.10	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.16	3.62	3.50	5.80	4.95	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.11	3.36	3.07	3.23	5.14	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.91	4.56	9.18	7.21	9.87	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.99	3.63	3.77	5.34	6.27	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	124	212	215	225	307	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0055	0.0105	0.0068	0.0103	0.0137	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.54	10.2	10.4	7.85	10.9	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.20	<0.20	0.28	<0.20	<0.20	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10	<0.10	<0.10	<0.10	<0.10	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.20	<0.20	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.22	6.06	5.10	5.89	10.5	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.28	10.1	12.2	15.1	15.1	NA
Miscellaneous																
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	87	93	96	91	90	90	87	90	95	91	90	91	87	88	89 [85]

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A11-HE18 3 - 4 09/10/12	SB-A11-HE18 17 - 18 09/10/12	SB-A11-HE20 2 - 3 09/07/12	SB-A11-HE20 17 - 18 09/07/12	SB-A11-HE23 1.5 - 2 05/21/12	SB-A11-HE23 12 - 13 05/22/12	SB-A11-HE23 17.5 - 18.5 05/22/12	SB-A11-HE26 1 - 2 05/21/12	SB-A11-HE26 12 - 13 05/21/12	SB-A11-HE28 1 - 2 09/07/12	SB-A11-HE28 6 - 7 09/07/12	SB-A11-HE28 12 - 13 09/07/12	SB-A11-HE28 20.5 - 21.5 09/07/12	SB-A11-HE28 24 - 25 09/07/12	SB-A11-HE28 29 - 30 09/07/12
Units																
Volatile Organics																
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
1,2-Dichlorobenzene	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
1,4-Dichlorobenzene	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
2-Hexanone	ug/kg	<640	<660	<540	<610	<800	<750	<830	<770	<770	<660	<660	<570 [<640]	<710	<580	<630
Acetone	ug/kg	<640	<660	<540	<610	<2,000	<1,900	<2,100	<1,900	<1,900	<660	<660	<570 [<640]	<710	<580	<630
Bromodichloromethane	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
Bromoform	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
Bromomethane (Methyl bromide)	ug/kg	<60	<70	<50	<60	NA	NA	NA	NA	NA	<70	<70	<60 [<60]	<70	<60	<60
Carbon disulfide	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
Carbon tetrachloride	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
Chlorobenzene	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
Chloroform (Trichloromethane)	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
Chloromethane (Methyl chloride)	ug/kg	<60	<70	<50	<60	<200	<190	<210	<190	<190	<70	<70	<60 [<60]	<70	<60	<60
cis-1,3-Dichloropropene	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
Dichlorodifluoromethane (CFC-12)	ug/kg	<60	<70	<50	<60	NA	NA	NA	NA	NA	<70	<70	<60 [<60]	<70	<60	<60
Methyl acetate	ug/kg	<640	<660	<540	<610	NA	NA	NA	NA	NA	<660	<660	<570 [<640]	<710	<580	<630
Methylene chloride	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
Styrene	ug/kg	<60	<70	<50	<60	<80	<75	<83	140	<77	<70	<70	<60 [<60]	<70	<60	<60
trans-1,3-Dichloropropene	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
Trichlorofluoromethane (CFC-11)	ug/kg	<60	<70	<50	<60	NA	NA	NA	NA	NA	<70	<70	<60 [<60]	<70	<60	<60
Trifluorotrichloroethane (Freon 113)	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
1,4-Dioxane	ug/kg	NA	NA	NA	NA	<800	<750	<830	<770	<770	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	<60	<70	<50	<60	<80	15 J	17 J	<77	1,100	<70	<70	<60 [<60]	<70	<60	<60
1,1,2,2-Tetrachloroethane	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
1,1,2-Trichloroethane	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
1,1-Dichloroethane	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	210	<70	<70	<60 [<60]	<70	<60	<60
1,1-Dichloroethene	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	230 ^a	<70	<70	<60 [<60]	<70	<60	<60
1,2-Dichloroethane	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
cis-1,2-Dichloroethene	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
trans-1,2-Dichloroethene	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
Trichloroethene	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
Tetrachloroethene	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
Vinyl chloride	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
Chloroethane	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
Benzene	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
Ethylbenzene	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
Toluene	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
o-Xylene	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
m&p-Xylene	ug/kg	<100	<100	<100	<100	<160	<150	<170	<150	<150	<100	<100	<100 [<100]	<100	<100	<100
Xylene (total)	ug/kg	<160	<170	<150	<160	<240	<225	<253	<227	<227	<170	<170	<160 [<160]	<170	<160	<160
Methyl tert butyl ether (MTBE)	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<640	<660	<540	<610	<800	<750	<830	<770	<770	<660	<660	<570 [<640]	<710	<580	<630
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<640	<660	<540	<610	<800	<750	<830	<770	<770	<660	<660	<570 [<640]	<710	<580	<630
1,2,4-Trichlorobenzene	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	<80	<75	<83	<77	<77	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	<80	<75	<83	<77	<77	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
1,3-Dichlorobenzene	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
Cyclohexane	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
Methyl cyclohexane	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
Dibromochloromethane	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
Isopropyl benzene	ug/kg	<60	<70	<50	<60	<80	<75	<83	<77	<77	<70	<70	<60 [<60]	<70	<60	<60
Naphthalene	ug/kg	NA	NA	NA	NA	<80	<75	<83	95	<77	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A11-HE18 3 - 4 09/10/12	SB-A11-HE18 17 - 18 09/10/12	SB-A11-HE20 2 - 3 09/07/12	SB-A11-HE20 17 - 18 09/07/12	SB-A11-HE23 1.5 - 2 05/21/12	SB-A11-HE23 12 - 13 05/22/12	SB-A11-HE23 17.5 - 18.5 05/22/12	SB-A11-HE26 1 - 2 05/21/12	SB-A11-HE26 12 - 13 05/21/12	SB-A11-HE28 1 - 2 09/07/12	SB-A11-HE28 6 - 7 09/07/12	SB-A11-HE28 12 - 13 09/07/12	SB-A11-HE28 20.5 - 21.5 09/07/12	SB-A11-HE28 24 - 25 09/07/12	SB-A11-HE28 29 - 30 09/07/12
Semivolatle Organics	Units															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/kg	NA	NA	NA	NA	<40 J	<40 [<40]	<40	<200 J	<40 J	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/kg	NA	NA	NA	NA	<70	<70 [<70]	<80	<300	<70	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
Anthracene	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	300	<40	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	200	<40	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
Acetophenone	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
Atrazine	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/kg	NA	NA	NA	NA	40	<40 [<40]	<40	1,200	<40	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	50	1,100	<40	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/kg	NA	NA	NA	NA	70 J	<40 [<40]	130 J	2,400 J	<40	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	40	700	<40	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/kg	NA	NA	NA	NA	80 J	<40 [<40]	130 J	2,500 J	<40	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	NA	NA	NA	<70	<70 [<70]	<80	<300	<70	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
Caprolactam	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	300	<40	NA	NA	NA	NA	NA	NA
Chrysene	ug/kg	NA	NA	NA	NA	50	<40 [<40]	50	1,600	<40	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/kg	NA	NA	NA	NA	<70	<70 [<70]	<80	<300	<70	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/kg	NA	NA	NA	NA	<70	<70 [<70]	<80	<300	<70	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/kg	NA	NA	NA	NA	<70 B	<50 B [<40]	<70 B	<200	<100 B	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/kg	NA	NA	NA	NA	<70	<70 [<70]	<80	<300	<70	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/kg	NA	NA	NA	NA	<70	<70 [<70]	<80	<300	<70	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/kg	NA	NA	NA	NA	90	<40 [<40]	<40	3,400	<40	NA	NA	NA	NA	NA	NA
Fluorene	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	200	<40	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/kg	NA	NA	NA	NA	<40 J	<40 [<40]	<40	<200 J	<40 J	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	600	<40	NA	NA	NA	NA	NA	NA
Isophorone	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/kg	NA	NA	NA	NA	40	<40 [<40]	<40	1,600	<40	NA	NA	NA	NA	NA	NA
Phenol	ug/kg	NA	NA	NA	NA	<40	<40 [<40]	<40	<200	<40	NA	NA	NA	NA	NA	NA
Pyrene	ug/kg	NA	NA	NA	NA	70	<40 [<40]	<40	2,700	<40	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A11-HE18 3 - 4 09/10/12	SB-A11-HE18 17 - 18 09/10/12	SB-A11-HE20 2 - 3 09/07/12	SB-A11-HE20 17 - 18 09/07/12	SB-A11-HE23 1.5 - 2 05/21/12	SB-A11-HE23 12 - 13 05/22/12	SB-A11-HE23 17.5 - 18.5 05/22/12	SB-A11-HE26 1 - 2 05/21/12	SB-A11-HE26 12 - 13 05/21/12	SB-A11-HE28 1 - 2 09/07/12	SB-A11-HE28 6 - 7 09/07/12	SB-A11-HE28 12 - 13 09/07/12	SB-A11-HE28 20.5 - 21.5 09/07/12	SB-A11-HE28 24 - 25 09/07/12	SB-A11-HE28 29 - 30 09/07/12
PCBs																
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																
Antimony	mg/kg	NA	NA	NA	NA	<0.20	<0.20 [<0.2]	<0.21	<0.20	<0.20	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	0.68	0.59 [0.59]	0.63	1.77	0.74	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	7.43	6.12 [9.35]	6.22	27.5	21.5	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	<0.20	<0.20 [<0.2]	<0.21	<0.20	<0.20	NA	NA	NA	NA	NA	NA
Boron	mg/kg	NA	NA	NA	NA	<4.1	<4.0 [<4]	<4.2	<4.1	<4.0	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	<0.10	<0.10 [0.1]	0.11	0.12	<0.10	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	1.20	1.09 [1.53]	1.32	3.73	2.32	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	1.76	1.08 [1.16]	0.97	10.9 ^{abi}	3.68	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	1.98	1.76 [2.13]	2.51	8.27	2.65	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	2.50	1.87 [2.54]	2.99	6.29	3.12	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	144	131 [129]	116	275	298	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	<0.0055	<0.0054 [<0.0055]	<0.0057	0.0121	0.0073	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	2.84	2.89 [2.74]	3.27	6.19	7.15	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	<0.20	<0.20 [<0.2]	<0.21	<0.20	<0.20	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	<0.10	<0.10 [<0.1]	<0.10	0.82	<0.10	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	<0.20	<0.20 [<0.2]	<0.21	<0.20	<0.20	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	1.55	1.67 [2]	1.55	5.46	3.65	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	2.77	3.74 [9.78]	3.42	15.2	6.50	NA	NA	NA	NA	NA	NA
Miscellaneous																
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	89	86	94	91	91	93 [92]	87	86	90	90	90	92 [92]	83	91	87

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	SB-A11-HF18 2 - 3 09/10/12	SB-A11-HF18 8 - 9 09/10/12	SB-A11-HF18 13 - 14 09/10/12	SB-A11-HF18 20 - 21 09/10/12	SB-A11-HF18 25 - 26 09/10/12	SB-A11-HF18 29 - 30 09/10/12	SB-A11-HF24 1.5 - 2 05/21/12	SB-A11-HF24 12.5 - 13 05/21/12	SB-A11-HH24 6 - 7 09/07/12	SB-A11-HH24 12 - 13 09/07/12	SB-A11-HH24 19 - 20 09/07/12	SB-A11-HH24 22 - 23 09/07/12	SB-A11-HH24 27 - 28 09/07/12	SB-A11-HJ7 1 - 2 09/07/12	SB-A11-HJ7 6 - 7 09/07/12	SB-A11-HJ7 17 - 18 09/07/12
Volatile Organics																	
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
1,2-Dichlorobenzene	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
1,4-Dichlorobenzene	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
2-Hexanone	ug/kg	<680 [<650]	<620	<580	<600	<610	<580	<880	<820	<720	<650	<640	<640	<620	<610	<650	<680
Acetone	ug/kg	<680 [<650]	<620	<580	<600	<610	<580	<2,200	<2,100	<720	<650	<640	<640	<620	<610	<650	<680
Bromodichloromethane	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
Bromoform	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
Bromomethane (Methyl bromide)	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	NA	NA	<70	<60	<60	<60	<60	<60	<60	<70
Carbon disulfide	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
Carbon tetrachloride	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
Chlorobenzene	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
Chloroform (Trichloromethane)	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
Chloromethane (Methyl chloride)	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<220	<210	<70	<60	<60	<60	<60	<60	<60	<70
cis-1,3-Dichloropropene	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
Dichlorodifluoromethane (CFC-12)	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	NA	NA	<70	<60	<60	<60	<60	<60	<60	<70
Methyl acetate	ug/kg	<680 [<650]	<620	<580	<600	<610	<580	NA	NA	<720	<650	<640	<640	<620	<610	<650	<680
Methylene chloride	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
Styrene	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
trans-1,3-Dichloropropene	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
Trichlorofluoromethane (CFC-11)	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	NA	NA	<70	<60	<60	<60	<60	<60	<60	<70
Trifluorotrichloroethane (Freon 113)	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	<880	<820	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	17 J	100	<70	<60	<60	<60	<60	<60	100	<70
1,1,2,2-Tetrachloroethane	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
1,1,2-Trichloroethane	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
1,1-Dichloroethane	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	63 J	<70	<60	<60	<60	<60	<60	<60	<70
1,1-Dichloroethene	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	98	<70	<60	<60	<60	<60	<60	<60	<70
1,2-Dichloroethane	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
cis-1,2-Dichloroethene	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
trans-1,2-Dichloroethene	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
Trichloroethene	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
Tetrachloroethene	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
Vinyl chloride	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
Chloroethane	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
Benzene	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
Ethylbenzene	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
Toluene	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
o-Xylene	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
m&p-Xylene	ug/kg	<100 [<100]	<100	<100	<100	<100	<100	<180	<160	<100	<100	<100	<100	<100	<100	<100	<100
Xylene (total)	ug/kg	<170 [<160]	<160	<160	<160	<160	<160	<268	<242	<170	<160	<160	<160	<160	<160	<160	<170
Methyl tert butyl ether (MTBE)	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<680 [<650]	<620	<580	<600	<610	<580	<880	<820	<720	<650	<640	<640	<620	<610	<650	<680
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<680 [<650]	<620	<580	<600	<610	<580	<880	<820	<720	<650	<640	<640	<620	<610	<650	<680
1,2,4-Trichlorobenzene	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	<88	<82	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	<88	<82	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
1,3-Dichlorobenzene	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
Cyclohexane	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
Methyl cyclohexane	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
Dibromochloromethane	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
Isopropyl benzene	ug/kg	<70 [<60]	<60	<60	<60	<60	<60	<88	<82	<70	<60	<60	<60	<60	<60	<60	<70
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	<88	<82	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A11-HF18 2 - 3 09/10/12	SB-A11-HF18 8 - 9 09/10/12	SB-A11-HF18 13 - 14 09/10/12	SB-A11-HF18 20 - 21 09/10/12	SB-A11-HF18 25 - 26 09/10/12	SB-A11-HF18 29 - 30 09/10/12	SB-A11-HF24 1.5 - 2 05/21/12	SB-A11-HF24 12.5 - 13 05/21/12	SB-A11-HH24 6 - 7 09/07/12	SB-A11-HH24 12 - 13 09/07/12	SB-A11-HH24 19 - 20 09/07/12	SB-A11-HH24 22 - 23 09/07/12	SB-A11-HH24 27 - 28 09/07/12	SB-A11-HJ7 1 - 2 09/07/12	SB-A11-HJ7 6 - 7 09/07/12	SB-A11-HJ7 17 - 18 09/07/12
Semivolatile Organics	Units																
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100 J	<100 J	<100 J
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
2,4,6-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
2,4-Dichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
2,4,5-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
2,4-Dimethylphenol	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
2,4-Dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100 J	<100 J	<100 J
2,4-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
2,6-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
2-Chloronaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
2-Chlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
2-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	700	<40	NA	NA	NA	NA	NA	<100	<100	<100
2-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
2-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
2-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
3&4-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	<300	<70	NA	NA	NA	NA	NA	<200	<200	<200
3,3'-Dichlorobenzidine	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
3-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
4-Bromophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
4-Chloro-3-methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
4-Chloroaniline	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100 J	<100	<100 J
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
4-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
4-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
Anthracene	ug/kg	NA	NA	NA	NA	NA	NA	300	<40	NA	NA	NA	NA	NA	<100	<100	<100
Acenaphthene	ug/kg	NA	NA	NA	NA	NA	NA	200	<40	NA	NA	NA	NA	NA	<100	<100	<100
Acenaphthylene	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
Acetophenone	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
Atrazine	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
Benzaldehyde	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
Benzo(a)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	1,700	<40	NA	NA	NA	NA	NA	<100	<100	<100
Benzo(a)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	1,600	<40	NA	NA	NA	NA	NA	<100	<100	<100
Benzo(b)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	3,400 J	<40	NA	NA	NA	NA	NA	<100	<100	<100
Benzo(g,h,i)perylene	ug/kg	NA	NA	NA	NA	NA	NA	900	<40	NA	NA	NA	NA	NA	<100	<100	<100
Benzo(k)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	3,600 J	<40	NA	NA	NA	NA	NA	<100	<100	<100
Biphenyl (1,1-Biphenyl)	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
bis(2-Chloroethoxy)methane	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
bis(2-Chloroethyl)ether	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	NA	NA	NA	NA	NA	<300	<70	NA	NA	NA	NA	NA	<200	<200	<200
Butyl benzylphthalate (BBP)	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
Caprolactam	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	300	<40	NA	NA	NA	NA	NA	<100	<100	<100
Chrysene	ug/kg	NA	NA	NA	NA	NA	NA	2,100	<40	NA	NA	NA	NA	NA	<100	<100	<100
Dibenz(a,h)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	<300	<70	NA	NA	NA	NA	NA	<200	<200	<200
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
Diethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	<300	<70	NA	NA	NA	NA	NA	<200	<200	<200
Dimethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100 J	<100 J	<100 J
Di-n-butylphthalate (DBP)	ug/kg	NA	NA	NA	NA	NA	NA	<300	<70	NA	NA	NA	NA	NA	<200	<200	<200
Di-n-octyl phthalate (DnOP)	ug/kg	NA	NA	NA	NA	NA	NA	<300	<70	NA	NA	NA	NA	NA	<200	<200	<200
Fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	4,200	<40	NA	NA	NA	NA	NA	<100	<100	<100
Fluorene	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
Hexachlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
Hexachlorobutadiene	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
Hexachlorocyclopentadiene	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
Hexachloroethane	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
Indeno(1,2,3-cd)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	800	<40	NA	NA	NA	NA	NA	<100	<100	<100
Isophorone	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
Nitrobenzene	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
N-Nitrosodi-n-propylamine	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
N-Nitrosodiphenylamine	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
Pentachlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
Phenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	1,700	<40	NA	NA	NA	NA	NA	<100	<100	<100
Phenol	ug/kg	NA	NA	NA	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<100	<100	<100
Pyrene	ug/kg	NA	NA	NA	NA	NA	NA	3,500	<40	NA	NA	NA	NA	NA	<100	<100	<100

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A11-HF18 2 - 3 09/10/12	SB-A11-HF18 8 - 9 09/10/12	SB-A11-HF18 13 - 14 09/10/12	SB-A11-HF18 20 - 21 09/10/12	SB-A11-HF18 25 - 26 09/10/12	SB-A11-HF18 29 - 30 09/10/12	SB-A11-HF24 1.5 - 2 05/21/12	SB-A11-HF24 12.5 - 13 05/21/12	SB-A11-HH24 6 - 7 09/07/12	SB-A11-HH24 12 - 13 09/07/12	SB-A11-HH24 19 - 20 09/07/12	SB-A11-HH24 22 - 23 09/07/12	SB-A11-HH24 27 - 28 09/07/12	SB-A11-HJ7 1 - 2 09/07/12	SB-A11-HJ7 6 - 7 09/07/12	SB-A11-HJ7 17 - 18 09/07/12
PCBs																	
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																	
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	<0.22	<0.20	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	1.82	0.76	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA	59.0	13.5	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	0.23	<0.20	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/kg	NA	NA	NA	NA	NA	NA	4.64	<4.1	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	0.36	<0.10	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	7.47	2.21	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	10.7 ^{abi}	1.97	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	58.4 ⁱ	2.50	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA	7.39	2.17	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	254	202	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	0.0104	0.0154	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	13.8	5.37	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	<0.22	<0.20	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA	0.17	<0.10	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	<0.22	<0.20	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	8.35	3.27	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	65.7 ⁱ	5.98	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																	
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	90 [91]	89	91	95	90	92	84	91	84	87	88	87	90	89	89	86

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A11-HM7 1 - 2 05/23/12	SB-A11-HM7 2 - 3 05/23/12	SB-A11-HM7 11.5 - 12.5 05/23/12	SB-A11-HN6 1 - 2 05/22/12	SB-A11-HN6 12 - 13 05/22/12	SB-A11-HN9 1 - 2 05/22/12	SB-A11-HN9 12 - 13 05/22/12	SB-A11-HP7 1 - 1.5 05/22/12	SB-A11-HP7 11 - 12 05/22/12	SB-A12-CM76 1 - 2 09/20/12	SB-A12-CM76 6 - 7 09/20/12	SB-A12-CM76 19 - 20 09/20/12	SB-A13-E94 1 - 2 06/05/12	SB-A13-E94 10 - 11 06/05/12	SB-A13-E94 15 - 16 06/05/12
Volatile Organics																
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
2-Hexanone	ug/kg	<830	<770	<730	<640	<630	<630	<590	<550	<600 [<590]	NA	NA	NA	NA	NA	NA
Acetone	ug/kg	<2,100	<1,900	<1,800	<640 J	<630 J	<630 J	<590 J	<550 J	<600 J [<590 J]	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
Bromoform	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<83	<77	<73	<60	<60 J	<60 J	<60 J	<50 J	<60 J [<60 J]	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
Chloroform (Trichloromethane)	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
Chloromethane (Methyl chloride)	ug/kg	<210	<190	<180	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	<640	<630	<630	<590	<550	<600 [<590]	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
Styrene	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
1,4-Dioxane	ug/kg	<830	<770	<730	<6,000	<6,000	<6,000	<6,000	<5,000	<6,000 [<6,000]	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	<83	55 J	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	ug/kg	<83	55 J	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/kg	<83	<77	<73	<60 J	<60 J	<60 J	<60 J	<50 J	<60 J [<60 J]	NA	NA	NA	NA	NA	NA
Vinyl chloride	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
Chloroethane	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
Benzene	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
Toluene	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
o-Xylene	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
m&p-Xylene	ug/kg	<170	<150	<150	<100	<100	<100	<100	<100	<100 [<100]	NA	NA	NA	NA	NA	NA
Xylene (total)	ug/kg	<253	<227	<223	<160	<160	<160	<160	<150	<160 [<160]	NA	NA	NA	NA	NA	NA
Methyl tert butyl ether (MTBE)	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<830	<770	<730	<640	<630	<630	<590	<550	<600 [<590]	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<830	<770	<730	<640	<630	<630	<590	<550	<600 [<590]	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	ug/kg	<83	<77	<73	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	<83	<77	<73	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
Cyclohexane	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
Dibromochloromethane	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
Isopropyl benzene	ug/kg	<83	<77	<73	<60	<60	<60	<60	<50	<60 [<60]	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	100	55 J	<73	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A11-HM7 1 - 2 05/23/12	SB-A11-HM7 2 - 3 05/23/12	SB-A11-HM7 11.5 - 12.5 05/23/12	SB-A11-HN6 1 - 2 05/22/12	SB-A11-HN6 12 - 13 05/22/12	SB-A11-HN9 1 - 2 05/22/12	SB-A11-HN9 12 - 13 05/22/12	SB-A11-HP7 1 - 1.5 05/22/12	SB-A11-HP7 11 - 12 05/22/12	SB-A12-CM76 1 - 2 09/20/12	SB-A12-CM76 6 - 7 09/20/12	SB-A12-CM76 19 - 20 09/20/12	SB-A13-E94 1 - 2 06/05/12	SB-A13-E94 10 - 11 06/05/12	SB-A13-E94 15 - 16 06/05/12
Semivolatile Organics																
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<400 J	<400 J	<40 J	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/kg	<400 J	<400 J	<40	<40	<40	<40 J	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
2-Chlorophenol	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/kg	400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
2-Methylphenol	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
2-Nitroaniline	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
2-Nitrophenol	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/kg	<700 J	<700 J	<70	<70	<70	<70	<70	<70	<70	<70 [<70]	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Naphthalene	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
3-Nitroaniline	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
4-Chloroaniline	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
4-Nitroaniline	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
4-Nitrophenol	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Anthracene	ug/kg	1,500 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Acenaphthene	ug/kg	1,700 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Acenaphthylene	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Acetophenone	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Atrazine	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Benzaldehyde	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/kg	2,000 J	<400 J	<40	<40	<40	50 J	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/kg	1,600 J	<400 J	<40	<40	<40	40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/kg	3,100 J	<400 J	<40	70 J	<40	50	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/kg	800 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/kg	3,300 J	<400 J	<40	70 J	<40	40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	4,000 J	<700 J	<70	<70	<70	<70	<70	<70	<70	<70 [<70]	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Caprolactam	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Carbazole	ug/kg	1,000 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Chrysene	ug/kg	2,100 J	<400 J	<40	40	<40	60	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/kg	<700 J	<700 J	<70	<70	<70	<70	<70	<70	<70	<70 [<70]	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	1,500 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Diethyl phthalate	ug/kg	<700 J	<700 J	<70	<70	<70	<70	<70	<70	<70	<70 [<70]	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/kg	<400 J	<400 J	<40	<340 B	<170 B	<190 B	<140 B	<170 B	<160 B	<170 B]	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/kg	<700 J	<700 J	<70	<70	<70	<70	<70	<70	<70	<70 [<70]	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/kg	<700 J	<700 J	<70	<70	<70	<70	<70	<70	<70	<70 [<70]	NA	NA	NA	NA	NA
Fluoranthene	ug/kg	7,200 J ^b	<400 J	<40	70	<40	120 J	<40	40	<40	<40 [<40]	NA	NA	NA	NA	NA
Fluorene	ug/kg	2,200 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Hexachloroethane	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	700 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Isophorone	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Nitrobenzene	ug/kg	<400 J	<400 J	<40 J	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Pentachlorophenol	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Phenanthrene	ug/kg	7,600 J ^b	<400 J	<40	<40	<40	70 J	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Phenol	ug/kg	<400 J	<400 J	<40	<40	<40	<40	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA
Pyrene	ug/kg	5,100 J	<400 J	<40	60	<40	90 J	<40	<40	<40	<40 [<40]	NA	NA	NA	NA	NA

TABLE 14 RFI Phase 2 Summary Report RACER Plant 3 Summary of Soil Sample Analytical Results																
Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A11-HM7 1 - 2 05/23/12	SB-A11-HM7 2 - 3 05/23/12	SB-A11-HM7 11.5 - 12.5 05/23/12	SB-A11-HN6 1 - 2 05/22/12	SB-A11-HN6 12 - 13 05/22/12	SB-A11-HN9 1 - 2 05/22/12	SB-A11-HN9 12 - 13 05/22/12	SB-A11-HP7 1 - 1.5 05/22/12	SB-A11-HP7 11 - 12 05/22/12	SB-A12-CM76 1 - 2 09/20/12	SB-A12-CM76 6 - 7 09/20/12	SB-A12-CM76 19 - 20 09/20/12	SB-A13-E94 1 - 2 06/05/12	SB-A13-E94 10 - 11 06/05/12	SB-A13-E94 15 - 16 06/05/12
PCBs																
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	<3	<3
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	ND	ND
Inorganics																
Antimony	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.20 [<0.2]	<0.20	<0.20	NA	NA	NA
Arsenic	mg/kg	0.75	1.16	0.66	1.26	1.55	0.99	1.34	0.78	0.69 [0.6]	1.05 [0.99]	0.36	1.91	NA	NA	NA
Barium	mg/kg	15.8	34.5	18.4	18.1	19.4	30.4	17.1	9.25	10.8 [12.4]	42.4 [41.3]	18.5	46.2	NA	NA	NA
Beryllium	mg/kg	<0.20	0.20	0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 [<0.2]	NA	NA	NA	NA	NA	NA
Boron	mg/kg	<4.0	<4.0	<4.0	<4.0	<4.0	<4.1	<4.0	<4.0	<4.0 [<4]	<4.0 [<4]	<4.0	<4.0	NA	NA	NA
Cadmium	mg/kg	0.29	0.13	0.12	<0.10	<0.10	0.11	0.15	<0.10	0.14 [<0.1]	0.10 [0.11]	<0.10	0.12	NA	NA	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	2.77	5.30	4.91	2.63	2.16	3.17	2.36	1.30	1.93 [1.78]	4.20 [3.75]	1.78	5.09	NA	NA	NA
Cobalt	mg/kg	2.17	4.64	3.44	7.13 ^{abi}	4.41	4.42	2.12	5.19	1.50 [1.36]	3.55 [3.59]	1.33	4.50	NA	NA	NA
Copper	mg/kg	31.1	9.37	10.0	3.77	4.06	3.79	7.29	2.00	7.36 [6.72]	4.85 [5.09]	3.33	12.2	NA	NA	NA
Lead	mg/kg	11.2	4.69	4.92	4.03	3.56	3.35	10.6	2.35	3.46 [3.1]	5.38 [5.67]	6.10	5.54	NA	NA	NA
Manganese	mg/kg	128	250	270	238	317	240	223	195	230 [212]	247 [256]	108	272	NA	NA	NA
Mercury	mg/kg	0.0123	0.0122	0.0115	0.0128	0.0118	0.0117	0.1155	0.0099	0.0096 [0.0079]	0.0247 [0.0239]	0.0239	0.0087	NA	NA	NA
Nickel	mg/kg	15.1	10.8	10.2	6.36	5.17	7.44	6.72	4.95	5.31 [5.07]	6.12 [6.44]	1.13	14.3	NA	NA	NA
Selenium	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	0.21	0.33	<0.20	0.24 [<0.2]	<0.20 [<0.2]	<0.20	<0.20	NA	NA	NA
Silver	mg/kg	<0.10	0.15	<0.10	0.69	<0.10	0.11	<0.10	0.32	<0.10 [<0.1]	<0.10 [<0.1]	<0.10	<0.10	NA	NA	NA
Thallium	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 [<0.2]	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	3.68	7.40	5.97	4.53	4.62	4.96	4.07	2.44	3.38 [3.24]	7.08 [6.85]	4.98	7.20	NA	NA	NA
Zinc	mg/kg	16.5	13.2	14.8	8.67	7.64	8.72	11.8	2.82	14.0 [6.6]	12.7 [8.38]	47.1 ¹	19.3	NA	NA	NA
Miscellaneous																
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	89	89	90	90	89	89	91	95	89 [90]	89 [90]	85	88	95	93	89

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	SB-A13-E94 24 - 25 06/05/12	SB-A13-G93 1 - 2 06/05/12	SB-A13-G93 10 - 11 06/05/12	SB-A13-G93 16 - 17 06/05/12	SB-A13-G96 1 - 2 06/05/12	SB-A13-G96 15 - 16 06/05/12	SB-A13-H94 1 - 2 06/05/12	SB-A13-H94 8 - 9 06/05/12	SB-A13-H94 18 - 19 06/05/12	SB-A14-CP125 1 - 2 05/18/12	SB-A14-CP125 7 - 8 05/18/12	SB-A14-CP125 13 - 14 05/18/12	SB-A14-CS116 1 - 2 05/18/12	SB-A14-CS116 7 - 8 05/18/12	SB-A14-CS116 13 - 14 05/18/12
Volatile Organics																
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform (Trichloromethane)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane (Methyl chloride)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene (total)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert butyl ether (MTBE)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl benzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A13-E94 24 - 25 06/05/12	SB-A13-G93 1 - 2 06/05/12	SB-A13-G93 10 - 11 06/05/12	SB-A13-G93 16 - 17 06/05/12	SB-A13-G96 1 - 2 06/05/12	SB-A13-G96 15 - 16 06/05/12	SB-A13-H94 1 - 2 06/05/12	SB-A13-H94 8 - 9 06/05/12	SB-A13-H94 18 - 19 06/05/12	SB-A14-CP125 1 - 2 05/18/12	SB-A14-CP125 7 - 8 05/18/12	SB-A14-CP125 13 - 14 05/18/12	SB-A14-CS116 1 - 2 05/18/12	SB-A14-CS116 7 - 8 05/18/12	SB-A14-CS116 13 - 14 05/18/12
Semivolatile Organics																
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1'-Biphenyl)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	SB-A13-E94 24 - 25 06/05/12	SB-A13-G93 1 - 2 06/05/12	SB-A13-G93 10 - 11 06/05/12	SB-A13-G93 16 - 17 06/05/12	SB-A13-G96 1 - 2 06/05/12	SB-A13-G96 15 - 16 06/05/12	SB-A13-H94 1 - 2 06/05/12	SB-A13-H94 8 - 9 06/05/12	SB-A13-H94 18 - 19 06/05/12	SB-A14-CP125 1 - 2 05/18/12	SB-A14-CP125 7 - 8 05/18/12	SB-A14-CP125 13 - 14 05/18/12	SB-A14-CS116 1 - 2 05/18/12	SB-A14-CS116 7 - 8 05/18/12	SB-A14-CS116 13 - 14 05/18/12
PCBs																
Aroclor-1016 (PCB-1016)	ug/kg	<3	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	<3	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	<3	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	<3	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	<3	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	<3	4	<3	<3 [<3]	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	<3	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	ND	4	ND	ND [ND]	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
Inorganics																
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.16	0.85	1.10	1.31	1.18	1.05
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.18	8.78	25.6	21.5	28.2	28.0
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20
Boron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.0	<4.0	6.14	<4.0	<4.0	<4.0
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10	<0.10	0.13	<0.10	<0.10	<0.10
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<1
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.68	2.22	3.39	1.55	2.46	2.48
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.6 ^{abi}	1.08	2.74	2.59	2.69	3.79
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.25 J	5.22 J	4.94 J	3.75 J	3.14 J	3.74 J
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.76	3.02	3.95	3.34	7.47	2.56
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	151	226	232	194	236	252
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0147	0.0069	0.0104	0.0069	0.0101	0.0102
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.64	10.2	7.68	4.77	6.57	6.31
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.20	0.22	0.36	0.23	<0.20	0.20
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.99	<0.10	<0.10	<0.10	<0.10	<0.10
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.51	2.17	5.31	3.44	4.83	4.22
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.57	4.43	11.1	6.81	6.99	7.79
Miscellaneous																
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	90	96	84	90 [91]	91	88	95	84	96	94	91	89	89	89	90

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A14-CT131 2.5 - 3 05/18/12	SB-A14-CT131 8 - 9 05/18/12	SB-A14-CT131 14 - 15 05/18/12	SB-A14-DA109 1 - 2 05/18/12	SB-A14-DA109 7 - 8 05/18/12	SB-A14-DA109 13 - 14 05/18/12	SB-A14-DD135 1 - 2 05/16/12	SB-A14-DD135 7 - 8 05/17/12	SB-A14-DF122 1 - 2 05/16/12	SB-A14-DF122 6 - 7 05/16/12	SB-A14-DH118 1 - 2 05/17/12	SB-A14-DH118 7 - 8 05/17/12	SB-A14-DH118 11 - 12 05/17/12	SB-A14-DK111 1 - 2 05/17/12
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform (Trichloromethane)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane (Methyl chloride)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene (total)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert butyl ether (MTBE)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl benzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A14-CT131 2.5 - 3 05/18/12	SB-A14-CT131 8 - 9 05/18/12	SB-A14-CT131 14 - 15 05/18/12	SB-A14-DA109 1 - 2 05/18/12	SB-A14-DA109 7 - 8 05/18/12	SB-A14-DA109 13 - 14 05/18/12	SB-A14-DD135 1 - 2 05/16/12	SB-A14-DD135 7 - 8 05/17/12	SB-A14-DF122 1 - 2 05/16/12	SB-A14-DF122 6 - 7 05/16/12	SB-A14-DH118 1 - 2 05/17/12	SB-A14-DH118 7 - 8 05/17/12	SB-A14-DH118 11 - 12 05/17/12	SB-A14-DK111 1 - 2 05/17/12
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14

RFI Phase 2 Summary Report

RACER Plant 3

Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A14-CT131 2.5 - 3 05/18/12	SB-A14-CT131 8 - 9 05/18/12	SB-A14-CT131 14 - 15 05/18/12	SB-A14-DA109 1 - 2 05/18/12	SB-A14-DA109 7 - 8 05/18/12	SB-A14-DA109 13 - 14 05/18/12	SB-A14-DD135 1 - 2 05/16/12	SB-A14-DD135 7 - 8 05/17/12	SB-A14-DF122 1 - 2 05/16/12	SB-A14-DF122 6 - 7 05/16/12	SB-A14-DH118 1 - 2 05/17/12	SB-A14-DH118 7 - 8 05/17/12	SB-A14-DH118 11 - 12 05/17/12	SB-A14-DK111 1 - 2 05/17/12
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	<0.20 [<0.2]	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Arsenic	mg/kg	1.89 [1.65]	0.80	1.36	1.23	1.28	0.62	0.30	0.38	1.52	0.51	0.71	1.00	0.78	0.72
Barium	mg/kg	48.4 [17.6]	12.6	26.4	21.8	28.9	6.71	10.6	13.2	14.6	4.45	6.33	22.6	13.1	26.6
Beryllium	mg/kg	<0.20 [<0.2]	<0.20	0.26	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.28
Boron	mg/kg	4.22 [<4.1]	<4.0	<4.2	<4.0	<4.1	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Cadmium	mg/kg	<0.10 [<0.1]	<0.10	0.16	<0.10	<0.10	<0.10	0.12	<0.10	0.14	<0.10	0.21	<0.10	<0.10	<0.10
Chromium VI (hexavalent)	mg/kg	<1 [<1]	<1	R	<1	<1	<1	<1	<1	<1	3.9^b	<1	<1	<1	<1
Chromium	mg/kg	2.62 [1.62]	1.28	5.35	1.90	2.68	4.78	1.75	1.62	7.05	4.51	1.24	2.74	2.73	2.90
Cobalt	mg/kg	2.70 [1.54]	0.42	3.85	5.16	3.21	0.55	<0.50	0.76	2.61	0.96	13.6^{abi}	2.39	1.91	2.74
Copper	mg/kg	11.8 J [3.67 J]	19.7 J	55.9 J¹	4.02 J	3.55 J	1.57 J	9.61	4.65	8.24	0.86	3.74	2.70	2.48	3.98
Lead	mg/kg	3.38 [2.91]	2.14	6.58	3.37	3.47	1.32	5.90	4.98	4.42	1.33	1.92	3.73	1.76	4.33
Manganese	mg/kg	155 [163]	174	319	286	251	99.2	29.7	57.0	226	101	168	204	153	196
Mercury	mg/kg	0.0098 [0.0092]	<0.0054	0.0131	0.0127	0.0109	<0.0054	0.0110	0.0169	0.0170	<0.0056	<0.0054	0.0091	<0.0053	0.0359
Nickel	mg/kg	5.51 [3.7]	3.23	11.6	4.78	7.31	3.28	1.66	1.92	9.49	2.24	5.49	6.41	4.07	2.36
Selenium	mg/kg	<0.20 [<0.2]	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.26	<0.20	<0.20	<0.20
Silver	mg/kg	0.15 [<0.1]	<0.10	<0.10	0.31	<0.10	<0.10	<0.10	<0.10	0.15	<0.10	1.78^{bi}	<0.10	<0.10	<0.10
Thallium	mg/kg	<0.20 [<0.2]	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Vanadium	mg/kg	5.67 [3.12]	2.67	8.14	3.55	5.12	2.00	2.08	2.62	2.91	1.11	1.72	4.02	2.41	4.82
Zinc	mg/kg	8.49 [5.54]	4.90	18.7	5.28	7.00	3.32	13.5	6.73	5.68	1.76	3.40	6.03	4.19	3.92
Miscellaneous															
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	87 [86]	92	87	89	89	91	89	88	94	87	93	92	93	88

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	SB-A14-DK111 7 - 8 05/17/12	SB-A14-DK111 13.5 - 14.5 05/17/12	SB-A14-DK126 1 - 2 05/17/12	SB-A14-DK126 9 - 10 05/17/12	SB-A14-DL123 1 - 2 05/16/12	SB-A14-DL123 7 - 8 05/16/12	SB-A14-DM135 1 - 2 05/17/12	SB-A14-DM135 7 - 8 05/17/12	SB-A14-DM135 18 - 18.5 05/18/12	SB-A14-DT113 0.5 - 1 05/17/12	SB-A14-DT113 6 - 7 05/17/12	SB-A14-DW133 0 - 1 05/17/12	SB-A14-DW133 10 - 11 05/21/12	SB-A14-EA121 1 - 2 05/17/12
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform (Trichloromethane)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane (Methyl chloride)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene (total)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert butyl ether (MTBE)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl benzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A14-DK111 7 - 8 05/17/12	SB-A14-DK111 13.5 - 14.5 05/17/12	SB-A14-DK126 1 - 2 05/17/12	SB-A14-DK126 9 - 10 05/17/12	SB-A14-DL123 1 - 2 05/16/12	SB-A14-DL123 7 - 8 05/16/12	SB-A14-DM135 1 - 2 05/17/12	SB-A14-DM135 7 - 8 05/17/12	SB-A14-DM135 18 - 18.5 05/18/12	SB-A14-DT113 0.5 - 1 05/17/12	SB-A14-DT113 6 - 7 05/17/12	SB-A14-DW133 0 - 1 05/17/12	SB-A14-DW133 10 - 11 05/21/12	SB-A14-EA121 1 - 2 05/17/12
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1'-Biphenyl)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A14-DK111 7 - 8 05/17/12	SB-A14-DK111 13.5 - 14.5 05/17/12	SB-A14-DK126 1 - 2 05/17/12	SB-A14-DK126 9 - 10 05/17/12	SB-A14-DL123 1 - 2 05/16/12	SB-A14-DL123 7 - 8 05/16/12	SB-A14-DM135 1 - 2 05/17/12	SB-A14-DM135 7 - 8 05/17/12	SB-A14-DM135 18 - 18.5 05/18/12	SB-A14-DT113 0.5 - 1 05/17/12	SB-A14-DT113 6 - 7 05/17/12	SB-A14-DW133 0 - 1 05/17/12	SB-A14-DW133 10 - 11 05/21/12	SB-A14-EA121 1 - 2 05/17/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 [<0.2]	0.30	0.31	0.26	<0.21	<0.20	<0.20 [<0.2]	<0.21	<0.20
Arsenic	mg/kg	1.66	0.40	0.90	0.60	0.92	1.06 [1.01]	5.49	5.56	4.14	1.15	1.21	1.43 [1.07]	0.68	0.95
Barium	mg/kg	32.4	3.63	7.18	9.86	8.80	5.71 [6.29]	133 ⁱ	116 ⁱ	102 ⁱ	10.3	22.2	24.0 [20.6]	6.70	6.15
Beryllium	mg/kg	0.21	<0.20	<0.20	<0.20	<0.20	<0.20 [<0.2]	0.61	0.43	0.46	<0.21	<0.20	<0.20 [<0.2]	<0.21	<0.20
Boron	mg/kg	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0 [<4]	5.44	15.7 ^a	11.0 ^a	<4.3	<4.1	<4.0 [<4]	<4.3	<4.0
Cadmium	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10 [0.18]	<0.10	<0.10	<0.10	<0.10	0.11	0.18 [0.14]	<0.10	<0.10
Chromium VI (hexavalent)	mg/kg	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 [<1]	<1	<1
Chromium	mg/kg	4.50	0.75	1.65	1.08	1.28	0.81 [0.87]	3.49	3.34	3.81	1.29	2.37	4.27 [3.34]	1.51	0.71
Cobalt	mg/kg	1.90	0.52	1.50	1.01	2.78	1.00 [1.24]	5.27	2.06	1.97	1.86	3.25	2.56 [2.11]	1.00	0.98
Copper	mg/kg	5.15	1.85	3.76	2.12	3.99	2.31 [2.06]	9.76	8.26	7.60 J	2.55	4.89	9.50 [6.43]	1.33	1.95
Lead	mg/kg	3.91	1.02	2.22	1.69	2.50	2.03 [1.89]	4.23	3.81	2.95	2.39	3.09	22.1 [12.2] ⁱ	1.44	1.80
Manganese	mg/kg	151	103	142	155	122	108 [111]	96.6	96.9	77.0	148	273	225 [219]	131	111
Mercury	mg/kg	0.0132	<0.0052	<0.0054	0.00930	0.0056	<0.0056 [0.007]	0.0253	0.0224	0.0164	0.0077	0.0083	0.0211 [0.0194]	<0.0057	<0.0052
Nickel	mg/kg	6.49	2.11	5.30	3.07	7.83	2.57 [2.66]	6.72	5.70	5.59	3.04	8.79	6.75 [5.37]	2.86	2.46
Selenium	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 [<0.2]	0.78 ^{bi}	1.09 ^{bi}	0.78 ^{bi}	<0.21	<0.20	<0.20 [<0.2]	<0.21	<0.20
Silver	mg/kg	<0.10	<0.10	<0.10	<0.10	0.25	<0.10 [<0.1]	0.32	<0.10	<0.10	<0.10	<0.10	<0.10 [<0.1]	<0.10	<0.10
Thallium	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.21	<0.20	<0.21	<0.20	<0.20 [<0.2]	<0.21	<0.20
Vanadium	mg/kg	8.50	1.28	2.01	1.68	1.74	1.59 [1.42]	14.3	12.3	11.1	2.42	3.61	4.91 [4.1]	2.48	1.22
Zinc	mg/kg	8.66	2.59	4.00	3.10	3.94	8.68 [10.7]	9.36	6.46	6.53	4.51	14.4	32.2 [21.2]	3.00	3.58
Miscellaneous															
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	89	96	93	97	93	90 [90]	90	90	88	88	89	91 [93]	87	96

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A15-HC110 3 - 4 09/18/12	SB-A15-HC110 19 - 20 09/18/12	SB-A15-HC113 1 - 2 05/16/12	SB-A15-HC113 20 - 21 05/16/12	SB-A15-HC114 1 - 2 05/16/12	SB-A15-HC114 3 - 4 05/16/12	SB-A15-HC114 16 - 17 05/16/12	SB-A15-HC115 1 - 2 05/16/12	SB-A15-HC115 12 - 13 05/16/12	SB-A15-HE114 1 - 2 05/15/12	SB-A15-HE114 17 - 18 05/16/12	SB-A15-HG114 2 - 3 09/18/12	SB-A15-HG114 18 - 19 09/18/12	SB-A16-GX162 1 - 2 06/05/12
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
1,2-Dichlorobenzene	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
1,4-Dichlorobenzene	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
2-Hexanone	ug/kg	NA	NA	<860	<840	<790	<580	<750	<780	<830	<790	<810	NA	NA	NA
Acetone	ug/kg	NA	NA	<2,200	<840	<2,900 BJ	<580	<3,400 B	<2,000 B	<2,100	<3,500 B	<2,900 B	NA	NA	NA
Bromodichloromethane	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
Bromoform	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	<80	NA	<60	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
Carbon tetrachloride	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
Chlorobenzene	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
Chloroform (Trichloromethane)	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
Chloromethane (Methyl chloride)	ug/kg	NA	NA	<220	<80	<200	<60	<190	<190	<210	<200	<200	NA	NA	NA
cis-1,3-Dichloropropene	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	<80	NA	<60	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	<840	NA	<580	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
Styrene	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
trans-1,3-Dichloropropene	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	<80	NA	<60	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79 J	<81	NA	NA	NA
1,4-Dioxane	ug/kg	NA	NA	<860	<8,000	<790	<6,000	<750	<780	<830	<790	<810	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
1,1,2,2-Tetrachloroethane	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
1,1,2-Trichloroethane	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
1,1-Dichloroethane	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
1,1-Dichloroethene	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
1,2-Dichloroethane	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
cis-1,2-Dichloroethene	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
trans-1,2-Dichloroethene	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
Trichloroethene	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
Tetrachloroethene	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
Vinyl chloride	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
Chloroethane	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
Benzene	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
Ethylbenzene	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
Toluene	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
o-Xylene	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
m&p-Xylene	ug/kg	NA	NA	<170	<200	<160	<100	<150	<160	<170	<160	<160	NA	NA	NA
Xylene (total)	ug/kg	NA	NA	<256	<280	<239	<160	<225	<238	<253	<239	<241	NA	NA	NA
Methyl tert butyl ether (MTBE)	ug/kg	NA	NA	<86 J	<80	<79 J	<60	<75	<78 J	<83 J	<79	<81 J	NA	NA	NA
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	NA	NA	<860	<840	<790	<580	<750	<780	<830	<790	<810	NA	NA	NA
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	NA	NA	<860	<840	<790	<580	<750	<780	<830	<790	<810	NA	NA	NA
1,2,4-Trichlorobenzene	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
1,2,4-Trimethylbenzene	ug/kg	NA	NA	<86	<79	<79	<73	<75	<78	<83	<79	<81	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	<86	<79	<79	<73	<75	<78	<83	<79	<81	NA	NA	NA
1,2-Dichloropropane	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
1,3-Dichlorobenzene	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
Cyclohexane	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
Methyl cyclohexane	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
Dibromochloromethane	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
Isopropyl benzene	ug/kg	NA	NA	<86	<80	<79	<60	<75	<78	<83	<79	<81	NA	NA	NA
Naphthalene	ug/kg	NA	NA	<86	<79	<79	<73	<75	<78	<83	<79	<81	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A15-HC110 3 - 4 09/18/12	SB-A15-HC110 19 - 20 09/18/12	SB-A15-HC113 1 - 2 05/16/12	SB-A15-HC113 20 - 21 05/16/12	SB-A15-HC114 1 - 2 05/16/12	SB-A15-HC114 3 - 4 05/16/12	SB-A15-HC114 16 - 17 05/16/12	SB-A15-HC115 1 - 2 05/16/12	SB-A15-HC115 12 - 13 05/16/12	SB-A15-HE114 1 - 2 05/15/12	SB-A15-HE114 17 - 18 05/16/12	SB-A15-HG114 2 - 3 09/18/12	SB-A15-HG114 18 - 19 09/18/12	SB-A16-GX162 1 - 2 06/05/12
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100	<300
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
2,4,6-Trichlorophenol	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
2,4-Dichlorophenol	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
2,4,5-Trichlorophenol	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100	<300
2,4-Dimethylphenol	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
2,4-Dinitrophenol	ug/kg	<100	<100	<200 J	<40 J	<40 J	<40	<40 J	<80 J	<40 J [<40 J]	<80	<40 J	<100	<100 J	<300
2,4-Dinitrotoluene	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
2,6-Dinitrotoluene	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100	<300
2-Chloronaphthalene	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
2-Chlorophenol	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
2-Methylnaphthalene	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
2-Methylphenol	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
2-Nitroaniline	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100	<300
2-Nitrophenol	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
3&4-Methylphenol	ug/kg	<200	<200	<400	<70	<70	<70	<70	<200	<80 [<80]	<200	<70	<200	<200 J	<500
3,3'-Dichlorobenzidine	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
Naphthalene	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
3-Nitroaniline	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
4-Bromophenyl phenyl ether	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100	<300
4-Chloro-3-methylphenol	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
4-Chloroaniline	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
4-Chlorophenyl phenyl ether	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100	<300
4-Nitroaniline	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100	<300
4-Nitrophenol	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100	<300
Anthracene	ug/kg	<100	<100	1,000	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100	<300
Acenaphthene	ug/kg	<100	<100	600	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
Acenaphthylene	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
Acetophenone	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
Atrazine	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
Benzaldehyde	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
Benzo(a)anthracene	ug/kg	<100	<100	2,900	<40	70	<40	<40	170	<40 [<40]	<80	<40	<100	<100	300
Benzo(a)pyrene	ug/kg	<100	<100	2,500	<40	50	<40	<40	140	<40 [<40]	<80	<40	<100	<100 J	<300
Benzo(b)fluoranthene	ug/kg	<100	<100	4,600 J	<40	100 J	60 J	<40	250 J	<40 [<40]	100 J	<40	<100	<100 J	500 J
Benzo(g,h,i)perylene	ug/kg	<100	<100	1,300	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
Benzo(k)fluoranthene	ug/kg	<100	<100	4,800 J	<40	100 J	60 J	<40	270 J	<40 [<40]	100 J	<40	<100	<100 J	500 J
Biphenyl (1,1-Biphenyl)	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
bis(2-Chloroethoxy)methane	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
bis(2-Chloroethyl)ether	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<200 J	<200 J	<400	<70	<70	<70	<70	<200	<80 [<80]	<200	<70	<200 J	<200 J	74,000 EJ
Butyl benzylphthalate (BBP)	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
Caprolactam	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
Carbazole	ug/kg	<100	<100	800	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100	<300
Chrysene	ug/kg	<100	<100	3,200	<40	60	40	<40	180	<40 [<40]	<80	<40	<100	<100	300
Dibenz(a,h)anthracene	ug/kg	<200	<200	<400	<70	<70	<70	<70	<200	<80 [<80]	<200	<70	<200	<200 J	<500
Dibenzofuran	ug/kg	<100	<100	300	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
Diethyl phthalate	ug/kg	<200	<200	<400	<70	<70	<70	<70	<200	<80 [<80]	<200	<70	<200	<200 J	<500
Dimethyl phthalate	ug/kg	<100	<100	<200	<110 B	<50 B	<60 B	<100 B	<80	<40 [<120 B]	250	<40 B	<100	<100	<300
Di-n-butylphthalate (DBP)	ug/kg	<200	<200	<400	<70	<70	<70	<70	<200	<80 [<80]	<200	<70	<200	<200 J	<500
Di-n-octyl phthalate (DnOP)	ug/kg	<200 J	<200 J	<400	<70	<70	<70	<70	<200	<80 [<80]	<200	<70	<200 J	<200 J	<500
Fluoranthene	ug/kg	<100	<100	8,000 ^b	<40	130	80	<40	410	<40 [<40]	140	<40	<100	<100	600
Fluorene	ug/kg	<100	<100	400	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
Hexachlorobenzene	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100	<300
Hexachlorobutadiene	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
Hexachlorocyclopentadiene	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100	<300
Hexachloroethane	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
Indeno(1,2,3-cd)pyrene	ug/kg	<100	<100	1,300	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
Isophorone	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
Nitrobenzene	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
N-Nitrosodi-n-propylamine	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
N-Nitrosodiphenylamine	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100	<300
Pentachlorophenol	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
Phenanthrene	ug/kg	<100	<100	6,000 ^b	<40	50	40	<40	180	<40 [<40]	<80	<40	<100	<100 J	300
Phenol	ug/kg	<100	<100	<200	<40	<40	<40	<40	<80	<40 [<40]	<80	<40	<100	<100 J	<300
Pyrene	ug/kg	<100	<100	6,400	<40	120	70	<40	320	<40 [<40]	110	<40	<100	<100	500

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A15-HC110 3 - 4 09/18/12	SB-A15-HC110 19 - 20 09/18/12	SB-A15-HC113 1 - 2 05/16/12	SB-A15-HC113 20 - 21 05/16/12	SB-A15-HC114 1 - 2 05/16/12	SB-A15-HC114 3 - 4 05/16/12	SB-A15-HC114 16 - 17 05/16/12	SB-A15-HC114 1 - 2 05/16/12	SB-A15-HC115 12 - 13 05/16/12	SB-A15-HE114 1 - 2 05/15/12	SB-A15-HE114 17 - 18 05/16/12	SB-A15-HG114 2 - 3 09/18/12	SB-A15-HG114 18 - 19 09/18/12	SB-A16-GX162 1 - 2 06/05/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	<5	<3	<3	<5	<3	<5	<3 [<3]	<5	<3	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	<5	<3	<3	<5	<3	<5	<3 [<3]	<5	<3	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	<5	<3	<3	<5	<3	<5	<3 [<3]	<5	<3	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	<5	<3	<3	<5	<3	<5	<3 [<3]	<5	<3	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	<5	<3	<3	<5	<3	<5	<3 [<3]	<5	<3	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	<5	<3	<3	<5	<3	<5	<3 [<3]	<5	<3	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	<5	<3	<3	<5	<3	<5	<3 [<3]	<5	<3	NA	NA	NA
Total PCBs	ug/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND [ND]	ND	ND	NA	NA	NA
Inorganics															
Antimony	mg/kg	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.20	NA	NA	<0.20
Arsenic	mg/kg	NA	NA	1.49	0.56	1.00	0.86	1.33	1.43	1.50 [1.84]	2.93	0.81	NA	NA	1.34
Barium	mg/kg	NA	NA	31.1	4.17	26.1	11.6	18.0	36.8	64.5 [65.7]	18.1	8.25	NA	NA	53.4
Beryllium	mg/kg	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.43 [0.39]	<0.20	<0.20	NA	NA	0.31
Boron	mg/kg	NA	NA	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0 [<4]	<4.0	<4.0	NA	NA	<4.0
Cadmium	mg/kg	NA	NA	0.11	<0.10	<0.10	<0.10	<0.10	0.22	0.37 [0.35]	<0.10	<0.10	NA	NA	0.27
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	4.25	1.12	2.33	1.49	3.00	6.45	5.34 [4.36]	1.53	3.25	NA	NA	9.68
Cobalt	mg/kg	NA	NA	2.75	0.87	2.30	1.76	2.72	2.63	0.84 [0.72]	2.02	1.32	NA	NA	4.54
Copper	mg/kg	NA	NA	8.87	4.75	4.74	2.21	9.21	9.16	19.4 [17.5]	5.03	6.57	NA	NA	8.65
Lead	mg/kg	NA	NA	6.82	2.10	4.83	2.41	4.90	8.69	13.1 [12.5]	3.45	2.61	NA	NA	17.0
Manganese	mg/kg	NA	NA	258	140	155	149	261	253	30.9 [28.6]	204	200	NA	NA	328
Mercury	mg/kg	NA	NA	0.0208	<0.0057	0.0151	0.0104	0.0109	0.0232	0.0496 [0.0432]	0.0098	0.00965	NA	NA	0.0436
Nickel	mg/kg	NA	NA	6.73	3.15	3.64	3.57	7.56	5.75	3.72 [3.11]	4.58	6.21	NA	NA	7.10
Selenium	mg/kg	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.41 [0.46]	0.24	0.36	NA	NA	<0.20
Silver	mg/kg	NA	NA	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10 [<0.1]	<0.10 J	<0.10	NA	NA	<0.10
Thallium	mg/kg	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.20	NA	NA	<0.20
Vanadium	mg/kg	NA	NA	5.39	2.32	3.82	1.88	6.30	6.53	10.5 [9.07]	2.90	3.58	NA	NA	10.2
Zinc	mg/kg	NA	NA	10.6	7.28	6.12	7.22	12.9	12.1	8.07 [7.07]	7.79	8.13	NA	NA	22.5
Miscellaneous															
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	91	89	90	89	91	91	89	88	84 [86]	86	89	94	89	91

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A16-GX162 7 - 8 06/05/12	SB-A16-GX162 18 - 19 06/05/12	SB-A16-HA159 0 - 1 06/05/12	SB-A16-HA159 9 - 10 06/05/12	SB-A16-HA159 19 - 20 06/05/12	SB-A16-HA165 1 - 2 06/06/12	SB-A16-HA165 7 - 8 06/06/12	SB-A16-HA165 14 - 15 06/06/12	SB-A16-HD162 1 - 2 06/06/12	SB-A16-HD162 8 - 9 06/06/12	SB-A16-HP165 3 - 4 09/20/12	SB-A16-HP165 9 - 10 09/20/12	SB-A16-HP178 2 - 3 11/28/12
Volatile Organics														
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
1,2-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
1,4-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
2-Hexanone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<570	<790	NA
Acetone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<570	<790	NA
Bromodichloromethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
Bromoform	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
Carbon disulfide	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
Carbon tetrachloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
Chlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
Chloroform (Trichloromethane)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
Chloromethane (Methyl chloride)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
cis-1,3-Dichloropropene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<570	<790	NA
Methylene chloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
Styrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
trans-1,3-Dichloropropene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
1,1,2,2-Tetrachloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
1,1,2-Trichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
1,1-Dichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
1,1-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
1,2-Dichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
cis-1,2-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
trans-1,2-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
Trichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
Tetrachloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
Vinyl chloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
Chloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
Benzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
Ethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
Toluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
o-Xylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
m&p-Xylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100	<200	NA
Xylene (total)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<160	<280	NA
Methyl tert butyl ether (MTBE)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<570	<790	NA
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<570	<790	NA
1,2,4-Trichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
1,3-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
Cyclohexane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
Methyl cyclohexane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
Dibromochloromethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
Isopropyl benzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<80	NA
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A16-GX162 7 - 8 06/05/12	SB-A16-GX162 18 - 19 06/05/12	SB-A16-HA159 0 - 1 06/05/12	SB-A16-HA159 9 - 10 06/05/12	SB-A16-HA159 19 - 20 06/05/12	SB-A16-HA165 1 - 2 06/06/12	SB-A16-HA165 7 - 8 06/06/12	SB-A16-HA165 14 - 15 06/06/12	SB-A16-HD162 1 - 2 06/06/12	SB-A16-HD162 8 - 9 06/06/12	SB-A16-HP165 3 - 4 09/20/12	SB-A16-HP165 9 - 10 09/20/12	SB-A16-HP178 2 - 3 11/28/12
Semivolatile Organics														
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
2,4,6-Trichlorophenol	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
2,4-Dichlorophenol	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
2,4,5-Trichlorophenol	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
2,4-Dimethylphenol	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
2,4-Dinitrophenol	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
2,4-Dinitrotoluene	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
2,6-Dinitrotoluene	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
2-Chloronaphthalene	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
2-Chlorophenol	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
2-Methylnaphthalene	ug/kg	<40	<40	<80	<40	<40	80	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
2-Methylphenol	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
2-Nitroaniline	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
2-Nitrophenol	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
3&4-Methylphenol	ug/kg	<80	<80	<200	<80	<70	<100	<80 [<80]	<80	<80	<80 [<300]	<200	<300	NA
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
Naphthalene	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
3-Nitroaniline	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
4-Chloro-3-methylphenol	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
4-Chloroaniline	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100 J]	<100	<100	NA
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
4-Nitroaniline	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
4-Nitrophenol	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
Anthracene	ug/kg	<40	<40	150	<40	<40	<70	<40 [<40]	<40	50	<40 [<100]	200	<100	NA
Acenaphthene	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
Acenaphthylene	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
Acetophenone	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
Atrazine	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
Benzaldehyde	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
Benzo(a)anthracene	ug/kg	<40	<40	500	<40	<40	<70	60 J [<40]	<40	210 J	<40 J [600 J]	700	<100	NA
Benzo(a)pyrene	ug/kg	<40	<40	470	<40	<40	<70	50 [<40]	<40	210	<40 J [600 J]	600	<100	NA
Benzo(b)fluoranthene	ug/kg	<40	<40	820 J	<40	<40	<70	90 J [<40]	<40	400 J	<40 J [1,300 J]	1,100 J	<100	NA
Benzo(g,h,i)perylene	ug/kg	<40	<40	380 J	<40	<40	<70	<40 J [<40]	<40	210 J	<40 [200 J]	600 J	<100	NA
Benzo(k)fluoranthene	ug/kg	<40	<40	840 J	<40	<40	<70	100 J [<40]	<40	410 J	<40 J [1,300 J]	1,200 J	<100	NA
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<80	<80	7,800	<80	<70	<100	<80 [<80]	<80	<80	<80 [<300]	<200 J	<300 J	NA
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
Caprolactam	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
Carbazole	ug/kg	<40	<40	100	<40	<40	<70	<40 [<40]	<40	40	<40 [<100]	<100	<100	NA
Chrysene	ug/kg	<40	<40	510	<40	<40	<70	60 [<40]	<40	230	<40 J [600 J]	700	<100	NA
Dibenz(a,h)anthracene	ug/kg	<80	<80	200 J	<80	<70	<100	<80 [<80]	<80	100 J	<80 [<300 J]	<200	<300	NA
Dibenzofuran	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
Diethyl phthalate	ug/kg	<80	<80	<200	<80	<70	<100	<80 [<80]	<80	<80	<80 [<300]	<200	<300	NA
Dimethyl phthalate	ug/kg	<80 B	<110 B	<80	<100 B	<100 B	<70	<60 B [<80 B]	<160 B	<40 B	<90 B [<100]	<100	<100	NA
Di-n-butylphthalate (DBP)	ug/kg	<80	<80	<200	<80	<70	<100	<80 [<80]	<80	<80	<80 [300]	<200 J	<300 J	NA
Di-n-octyl phthalate (DnOP)	ug/kg	<80	<80	<200	<80	<70	<100	<80 [<80]	<80	<80	<80 [<300 J]	<200	<300	NA
Fluoranthene	ug/kg	<40	<40	1,150	<40	<40	90	110 [60]	<40	470	<40 J [1,200 J]	1,400	<100	NA
Fluorene	ug/kg	<40	<40	90	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
Hexachlorobenzene	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
Hexachlorobutadiene	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
Hexachlorocyclopentadiene	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
Hexachloroethane	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	360 J	<40	<40	<70	<40 [<40]	<40	180 J	<40 [200 J]	400 J	<100	NA
Isophorone	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
Nitrobenzene	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
N-Nitrosodiphenylamine	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
Pentachlorophenol	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
Phenanthrene	ug/kg	<40	<40	690	<40	<40	<70	50 [<40]	<40	250	<40 J [700 J]	900	<100	NA
Phenol	ug/kg	<40	<40	<80	<40	<40	<70	<40 [<40]	<40	<40	<40 [<100]	<100	<100	NA
Pyrene	ug/kg	<40	<40	950	<40	<40	90	90 [50]	<40	410	<40 [1,000 J]	1,200	<100	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	SB-A16-GX162 7 - 8 06/05/12	SB-A16-GX162 18 - 19 06/05/12	SB-A16-HA159 0 - 1 06/05/12	SB-A16-HA159 9 - 10 06/05/12	SB-A16-HA159 19 - 20 06/05/12	SB-A16-HA165 1 - 2 06/06/12	SB-A16-HA165 7 - 8 06/06/12	SB-A16-HA165 14 - 15 06/06/12	SB-A16-HD162 1 - 2 06/06/12	SB-A16-HD162 8 - 9 06/06/12	SB-A16-HP165 3 - 4 09/20/12	SB-A16-HP165 9 - 10 09/20/12	SB-A16-HP178 2 - 3 11/28/12
PCBs														
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics														
Antimony	mg/kg	<0.22	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21 [<0.2]	<0.22	<0.21	<0.21 [<0.21]	<0.20	<0.20	NA
Arsenic	mg/kg	0.19	0.87	1.69	0.27	0.66	3.32	0.62 [1.32]	1.74	1.67	0.49 J [2.2 J]	2.31	1.56	2.47
Barium	mg/kg	41.2	10.1	41.4	14.1	8.94	18.8	50.1 [47.7]	4.20	55.9	69.1 [51.2]	35.0	138ⁱ	NA
Beryllium	mg/kg	0.46	<0.20	0.26	<0.20	<0.20	<0.20	0.28 [0.28]	<0.22	0.37	0.42 [0.36]	NA	NA	NA
Boron	mg/kg	<4.4	<4.1	<4.1	<4.1	<4.1	<4.0	<4.3 [<4.1]	<4.4	<4.3	<4.3 [<4.2]	<4.0	<4.0	NA
Cadmium	mg/kg	<0.11	<0.10	0.41	<0.10	<0.10	0.16	0.43 [0.23]	<0.11	0.18	0.24 [0.46]	0.12	2.12ⁱ	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	5.33	3.66	11.4	3.64	3.52	4.41	3.15 [6.13]	3.73	9.33	3.80 [5.85]	5.01	8.46	NA
Cobalt	mg/kg	2.57	2.90	4.27	2.09	3.19	2.92	1.22 [3.36]	1.34	4.80	1.45 J [5.09 J]	2.14	2.91	2.76
Copper	mg/kg	9.87	6.93	10.3	7.33	6.48	5.95	7.96 [9.14]	30.3	9.37	14.3 [16.1]	7.34	124^{bi}	NA
Lead	mg/kg	4.70	3.45	20.4	2.74	3.09	8.21	8.38 [9.59]	2.00	13.3	7.10 [20.3]	12.8	29.8ⁱ	NA
Manganese	mg/kg	43.2	221	293	47.8	186	215	62.5 J [290 J]	86.6	308	48.7 J [734 J]	180	103	193
Mercury	mg/kg	0.0367	0.0105	0.0362	<0.0058	0.0067	0.0106	0.0286 [0.0271]	<0.0061	0.0365	0.0282 [0.0394]	0.0166	0.2373^{bi}	NA
Nickel	mg/kg	4.75	10.9	9.54	6.24	12.4	9.62	2.57 [8.59]	6.62	7.98	3.22 J [12.3 J]	9.33	16.1	NA
Selenium	mg/kg	<0.22	<0.20	<0.20	<0.20	0.32	<0.20	<0.21 [<0.2]	0.42^{bi}	<0.21	<0.21 [<0.21]	<0.20	0.40	<0.20
Silver	mg/kg	<0.11	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10 [<0.1]	<0.11	<0.10	<0.10 [<0.1]	<0.10	<0.10	NA
Thallium	mg/kg	<0.22	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21 [<0.2]	<0.22	<0.21	<0.21 [<0.21]	NA	NA	NA
Vanadium	mg/kg	8.08	6.31	8.77	5.37	6.29	4.76	6.12 [8.81]	8.13	11.2	9.24 [9.39]	6.74	21.0	NA
Zinc	mg/kg	11.9	13.1	32.3	9.41	13.2	13.8	9.82 [17.9]	4.69	18.2	10.0 J [49.4 J]	14.4	167ⁱ	40.9
Miscellaneous														
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	84	88	87	87	91	94	84 [85]	80	84	85 [90]	95	77	92

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A16-HP178 10 - 11 11/28/12	SB-A16-HQ168 1 - 2 11/09/12	SB-A16-HQ168 10 - 11 11/09/12	SB-A16-HQ168 17 - 18 11/09/12	SB-A16-HR162 1 - 2 06/06/12	SB-A16-HR162 9 - 10 06/06/12	SB-A16-HR162 19 - 20 06/06/12	SB-A16-HU160 1 - 2 06/06/12	SB-A16-HU165 1 - 2 06/06/12	SB-A16-HU165 4 - 5 06/06/12	SB-A16-HU165 15 - 16 06/06/12	SB-A16-HU168 4.5 - 5.5 09/20/12	SB-A16-HU168 9 - 10 09/20/12
	Units													
Volatile Organics														
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
1,2-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
1,4-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
2-Hexanone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<600	<970 [<900]
Acetone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<600	<970 [<900]
Bromodichloromethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
Bromoform	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
Carbon disulfide	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
Carbon tetrachloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
Chlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
Chloroform (Trichloromethane)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
Chloromethane (Methyl chloride)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
cis-1,3-Dichloropropene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<600	<970 [<900]
Methylene chloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
Styrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
trans-1,3-Dichloropropene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
Trifluorotrichloroethane (Freon 113)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
1,1,2,2-Tetrachloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
1,1,2-Trichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
1,1-Dichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
1,1-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
1,2-Dichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
cis-1,2-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
trans-1,2-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
Trichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
Tetrachloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
Vinyl chloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
Chloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
Benzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
Ethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
Toluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
o-Xylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
m&p-Xylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100	<200 [<200]
Xylene (total)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<160	<300 [<290]
Methyl tert butyl ether (MTBE)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<600	<970 [<900]
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<600	<970 [<900]
1,2,4-Trichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
1,3-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
Cyclohexane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
Methyl cyclohexane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	70	<100 [<90]
Dibromochloromethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
Isopropyl benzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<100 [<90]
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A16-HP178 10 - 11 11/28/12	SB-A16-HQ168 1 - 2 11/09/12	SB-A16-HQ168 10 - 11 11/09/12	SB-A16-HQ168 17 - 18 11/09/12	SB-A16-HR162 1 - 2 06/06/12	SB-A16-HR162 9 - 10 06/06/12	SB-A16-HR162 19 - 20 06/06/12	SB-A16-HU160 1 - 2 06/06/12	SB-A16-HU165 1 - 2 06/06/12	SB-A16-HU165 4 - 5 06/06/12	SB-A16-HU165 15 - 16 06/06/12	SB-A16-HU168 4.5 - 5.5 09/20/12	SB-A16-HU168 9 - 10 09/20/12
Units														
Semivolatile Organics														
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
2,4,6-Trichlorophenol	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
2,4-Dichlorophenol	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
2,4,5-Trichlorophenol	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
2,4-Dimethylphenol	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
2,4-Dinitrophenol	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
2,4-Dinitrotoluene	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
2,6-Dinitrotoluene	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
2-Chloronaphthalene	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
2-Chlorophenol	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
2-Methylnaphthalene	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	2,000 J	<40	<100	<100 [<100]
2-Methylphenol	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
2-Nitroaniline	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
2-Nitrophenol	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
3&4-Methylphenol	ug/kg	NA	<300 [<200]	<300	<200	<300	<200	<70	<100	<300 J	<2,000	<90	<200	<300 [<300]
3,3'-Dichlorobenzidine	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
Naphthalene	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	2,000 J ^b	<40	<100	<100 [<100]
3-Nitroaniline	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
4-Bromophenyl phenyl ether	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
4-Chloro-3-methylphenol	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
4-Chloroaniline	ug/kg	NA	<200 [<100]	<100	<100	<100 J	<80 J	<40 J	<70	<100 J	<1,000 J	<40 J	<100	<100 [<100]
4-Chlorophenyl phenyl ether	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
4-Nitroaniline	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
4-Nitrophenol	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
Anthracene	ug/kg	NA	200 [<100]	<100	<100	<100	<80	<40	<70	200 J	19,000 J	<40	300	<100 [<100]
Acenaphthene	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	8,000 J	<40	100	<100 [<100]
Acenaphthylene	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
Acetophenone	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
Atrazine	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
Benzaldehyde	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
Benzo(a)anthracene	ug/kg	NA	900 J [<100 J]	<100	<100	400	<80	<40	200 J	600 J	36,000 J	<40	700	<100 [<100]
Benzo(a)pyrene	ug/kg	NA	700 J [<100 J]	<100	<100	400	<80	<40	200	600 J	33,000 J ^f	<40	600	<100 [<100]
Benzo(b)fluoranthene	ug/kg	NA	800 J [<100 J]	<100	<100	800 J	<80	<40	380 J	1,100 J	62,000 J	<40	1,000 J	<100 [<100]
Benzo(g,h,i)perylene	ug/kg	NA	400 J [<100 J]	<100	<100	300	<80	<40	140 J	400 J	12,000 J	<40	500 J	<100 [<100]
Benzo(k)fluoranthene	ug/kg	NA	600 J [<100 J]	<100	<100	800 J	<80	<40	390 J	1,100 J	60,000 J	<40	1,100 J	<100 [<100]
Biphenyl (1,1-Biphenyl)	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
bis(2-Chloroethoxy)methane	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
bis(2-Chloroethyl)ether	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	<300 [<200]	<300	<200	<300	<200	<70	<100	<300 J	<2,000	<90	<200 J	<300 [<300 J]
Butyl benzylphthalate (BBP)	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
Caprolactam	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
Carbazole	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	6,000 J ^b	<40	100	<100 [<100]
Chrysene	ug/kg	NA	1,200 J [<100 J]	<100	<100	500	<80	<40	210	700 J	38,000 J	<40	700	<100 [<100]
Dibenz(a,h)anthracene	ug/kg	NA	<300 [<200]	<300	<200	<300	<200	<70	<100	<300 J	<2,000	<90	<200	<300 [<300]
Dibenzofuran	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	7,000 J ^b	<40	<100	<100 [<100]
Diethyl phthalate	ug/kg	NA	<300 [<200]	<300	<200	<300	<200	<70	<100	<300 J	<2,000	<90	<200	<300 [<300]
Dimethyl phthalate	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<60 B	<90 B	<100 J	<1,000	<120 B	<100	<100 [<100]
Di-n-butylphthalate (DBP)	ug/kg	NA	<300 [<200]	<300	<200	<300	<200	<70	<100	<300 J	<2,000	<90	<200 J	<300 J [<300 J]
Di-n-octyl phthalate (DnOP)	ug/kg	NA	<300 [<200]	<300	<200	<300	<200	<70	<100	<300 J	<2,000	<90	<200	<300 [<300]
Fluoranthene	ug/kg	NA	1,600 J [100 J]	<100	<100	900	<90 B	<40	410	1,200 J	88,000 J ^b	<40	1,500	<100 [<100]
Fluorene	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	13,000 J ^b	<40	<100	<100 [<100]
Hexachlorobenzene	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
Hexachlorobutadiene	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
Hexachlorocyclopentadiene	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
Hexachloroethane	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
Indeno(1,2,3-cd)pyrene	ug/kg	NA	300 [<100]	<100	<100	300	<80	<40	130 J	400 J	13,000 J	<40	400 J	<100 [<100]
Isophorone	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
Nitrobenzene	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
N-Nitrosodi-n-propylamine	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
N-Nitrosodiphenylamine	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
Pentachlorophenol	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
Phenanthrene	ug/kg	NA	900 J [<100 J]	<100	<100	600	<80	<40	220	800 J	74,000 J ^{ab}	<40	1,100	<100 [<100]
Phenol	ug/kg	NA	<200 [<100]	<100	<100	<100	<80	<40	<70	<100 J	<1,000	<40	<100	<100 [<100]
Pyrene	ug/kg	NA	1,300 J [100 J]	<100	<100	700	<80	<40	370	1,000 J	61,000 J	<40	1,400	<100 [<100]

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	SB-A16-HP178 10 - 11 11/28/12	SB-A16-HQ168 1 - 2 11/09/12	SB-A16-HQ168 10 - 11 11/09/12	SB-A16-HQ168 17 - 18 11/09/12	SB-A16-HR162 1 - 2 06/06/12	SB-A16-HR162 9 - 10 06/06/12	SB-A16-HR162 19 - 20 06/06/12	SB-A16-HU160 1 - 2 06/06/12	SB-A16-HU165 1 - 2 06/06/12	SB-A16-HU165 4 - 5 06/06/12	SB-A16-HU165 15 - 16 06/06/12	SB-A16-HU168 4.5 - 5.5 09/20/12	SB-A16-HU168 9 - 10 09/20/12
PCBs														
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics														
Antimony	mg/kg	NA	<0.24 [<0.22]	<0.25	<0.22	<0.20	<0.22	<0.20	<0.20	<0.20	<0.21	<0.22	<0.20	<0.20 [<0.2]
Arsenic	mg/kg	3.50 [2.3]	1.13 [1.41]	2.35	1.13	1.12	0.85	1.32	1.29	2.45	2.23	2.36	1.26	9.97 [9.05] ^{abi}
Barium	mg/kg	NA	23.0 [26.6]	59.8	33.5	30.7	59.2	22.1	32.2	35.5	32.8	35.5	24.8	456 [413] ⁱ
Beryllium	mg/kg	NA	NA	NA	NA	<0.20	0.34	<0.20	0.27	0.21	<0.21	0.28	NA	NA
Boron	mg/kg	NA	<4.8 [<4.5]	<5.0	<4.4	<4.0	<4.4	<4.0	<4.0	4.19	<4.2	<4.4	<4.0	10.3 [6.45] ^a
Cadmium	mg/kg	NA	<0.12 [0.13]	0.19	<0.11	0.14	0.19	<0.10	0.22	0.12	0.14	0.18	0.134	1.08 [0.62]
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	4.93 [6.42]	12.9	8.34	8.00	3.88	3.65	7.22	8.76	5.39	6.57	2.86	6.81 [11.1]
Cobalt	mg/kg	4.29 [4.77]	3.15 [3.71]	8.34 ^{abi}	4.54	3.58	3.28	3.14	3.44	3.81	3.31	4.61	2.63	3.08 [1.67]
Copper	mg/kg	NA	5.60 [7.97]	16.3	11.4	11.4	12.4	9.87	9.16	37.9 ⁱ	16.7	19.4	7.76	292 J [35.6 J] ^{bi}
Lead	mg/kg	NA	3.48 [4.8]	8.05	5.18	11.4	7.90	4.32	17.2	18.3	10.6	8.23	5.29	4,100 [7,230] ^{afi}
Manganese	mg/kg	336 [447]	189 [248]	508 ^{abi}	317	246	236	248	254	278	253	503 ^{abi}	200	386 [285]
Mercury	mg/kg	NA	0.0184 [0.0316]	0.0130	0.0098	0.0151	0.0195	0.0088	0.0335	0.0159	0.0136	0.0164	0.0328	2.378 [1.341] ^{abi}
Nickel	mg/kg	NA	7.25 [9.37]	18.7	11.5	11.1	7.06	9.62	8.39	16.6	13.0	14.5	10.0	13.7 [12.3]
Selenium	mg/kg	0.22 [0.27]	<0.12 [<0.11]	0.13	<0.11	<0.20	<0.22	<0.20	<0.20	<0.20	<0.21	<0.22	<0.20	0.65 [0.47] ^{bi}
Silver	mg/kg	NA	<0.02 [0.02]	0.05	0.04	0.10	<0.11	<0.10	<0.10	<0.10	<0.10	<0.11	<0.10	1.31 [1.59] ^{bi}
Thallium	mg/kg	NA	NA	NA	NA	<0.20	<0.22	<0.20	<0.20	<0.20	<0.21	<0.22	NA	NA
Vanadium	mg/kg	NA	6.88 [8.86]	16.1	11.5	6.42	12.0	5.70	6.97	8.78	7.72	12.4	4.25	14.2 [11]
Zinc	mg/kg	29.9 [29.3]	15.2 [19.7]	35.0	23.6	16.0	29.0	13.8	32.3	32.6	21.2	31.2	10.2	538 [262] ^{bi}
Miscellaneous														
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	76 [77]	89 [90]	79	88	95	83	94	92	96	89	77	91	68 [73]

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A16-HU168 19 - 20 09/20/12	SB-A16-HU171 1 - 2 11/09/12	SB-A16-HU171 12 - 13 11/09/12	SB-A16-HU171 18 - 19 11/09/12	SB-A16-HU178 0 - 1 11/28/12	SB-A16-HU178 5 - 6 11/28/12	SB-A16-HU178 24 - 25 11/28/12	SB-A16-HX162 1 - 2 06/06/12	SB-A16-HX162 8 - 9 06/06/12	SB-A16-HX162 19 - 20 06/06/12	SB-A16-HX165 1 - 2 09/20/12	SB-A16-HX165 19 - 20 09/20/12	SB-A16-HX176 0 - 1 11/28/12	SB-A16-HX176 5 - 6 11/28/12
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
1,2-Dichlorobenzene	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
1,4-Dichlorobenzene	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
2-Hexanone	ug/kg	<790	NA	NA	NA	NA	NA	NA	NA	NA	NA	<580	<880	NA	NA
Acetone	ug/kg	<790	NA	NA	NA	NA	NA	NA	NA	NA	NA	<580	<880	NA	NA
Bromodichloromethane	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
Bromoform	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
Bromomethane (Methyl bromide)	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
Carbon disulfide	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
Carbon tetrachloride	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
Chlorobenzene	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
Chloroform (Trichloromethane)	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
Chloromethane (Methyl chloride)	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
cis-1,3-Dichloropropene	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
Dichlorodifluoromethane (CFC-12)	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
Methyl acetate	ug/kg	<790	NA	NA	NA	NA	NA	NA	NA	NA	NA	<580	<880	NA	NA
Methylene chloride	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
Styrene	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
trans-1,3-Dichloropropene	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
Trichlorofluoromethane (CFC-11)	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
1,1,2,2-Tetrachloroethane	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
1,1,2-Trichloroethane	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
1,1-Dichloroethane	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
1,1-Dichloroethene	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
1,2-Dichloroethane	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
cis-1,2-Dichloroethene	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
trans-1,2-Dichloroethene	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
Trichloroethene	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
Tetrachloroethene	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
Vinyl chloride	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
Chloroethane	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
Benzene	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
Ethylbenzene	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
Toluene	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
o-Xylene	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
m&p-Xylene	ug/kg	<200	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100	<200	NA	NA
Xylene (total)	ug/kg	<280	NA	NA	NA	NA	NA	NA	NA	NA	NA	<160	<290	NA	NA
Methyl tert butyl ether (MTBE)	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<790	NA	NA	NA	NA	NA	NA	NA	NA	NA	<580	<880	NA	NA
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<790	NA	NA	NA	NA	NA	NA	NA	NA	NA	<580	<880	NA	NA
1,2,4-Trichlorobenzene	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
1,3-Dichlorobenzene	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
Cyclohexane	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
Methyl cyclohexane	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
Dibromochloromethane	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
Isopropyl benzene	ug/kg	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<90	NA	NA
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A16-HU168 19 - 20 09/20/12	SB-A16-HU171 1 - 2 11/09/12	SB-A16-HU171 12 - 13 11/09/12	SB-A16-HU171 18 - 19 11/09/12	SB-A16-HU178 0 - 1 11/28/12	SB-A16-HU178 5 - 6 11/28/12	SB-A16-HU178 24 - 25 11/28/12	SB-A16-HX162 1 - 2 06/06/12	SB-A16-HX162 8 - 9 06/06/12	SB-A16-HX162 19 - 20 06/06/12	SB-A16-HX165 1 - 2 09/20/12	SB-A16-HX165 19 - 20 09/20/12	SB-A16-HX176 0 - 1 11/28/12	SB-A16-HX176 5 - 6 11/28/12
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
2,4,6-Trichlorophenol	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
2,4-Dichlorophenol	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
2,4,5-Trichlorophenol	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
2,4-Dimethylphenol	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
2,4-Dinitrophenol	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
2,4-Dinitrotoluene	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
2,6-Dinitrotoluene	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
2-Chloronaphthalene	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
2-Chlorophenol	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
2-Methylnaphthalene	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
2-Methylphenol	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
2-Nitroaniline	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
2-Nitrophenol	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
3&4-Methylphenol	ug/kg	<300	<200	<300 [<300]	<200	NA	NA	NA	<100	<400	<80	<200	<300	NA	NA
3,3'-Dichlorobenzidine	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
Naphthalene	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
3-Nitroaniline	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
4-Bromophenyl phenyl ether	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
4-Chloro-3-methylphenol	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
4-Chloroaniline	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70 J	<200 J	<40 J	<100	<100	NA	NA
4-Chlorophenyl phenyl ether	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
4-Nitroaniline	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
4-Nitrophenol	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
Anthracene	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
Acenaphthene	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
Acenaphthylene	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
Acetophenone	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
Atrazine	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
Benzaldehyde	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
Benzo(a)anthracene	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	300	300	<40	<100	<100	NA	NA
Benzo(a)pyrene	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	320	500 J	<40	<100	<100	NA	NA
Benzo(b)fluoranthene	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	630 J	1,000 J	<40	100 J	<100	NA	NA
Benzo(g,h,i)perylene	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	180	R	<40	<100	<100	NA	NA
Benzo(k)fluoranthene	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	620 J	1,000 J	<40	200 J	<100	NA	NA
Biphenyl (1,1-Biphenyl)	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
bis(2-Chloroethoxy)methane	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
bis(2-Chloroethyl)ether	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<300 J	<200	<300 [<300]	<200	NA	NA	NA	<100	<400	<80	<200 J	<300 J	NA	NA
Butyl benzylphthalate (BBP)	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
Caprolactam	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
Carbazole	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
Chrysene	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	330	400	<40	<100	<100	NA	NA
Dibenz(a,h)anthracene	ug/kg	<300	<200	<300 [<300]	<200	NA	NA	NA	<100	R	<80	<200	<300	NA	NA
Dibenzofuran	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
Diethyl phthalate	ug/kg	<300	<200	<300 [<300]	<200	NA	NA	NA	<100	<400	<80	<200	<300	NA	NA
Dimethyl phthalate	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<90 B	<100	<100	NA	NA
Di-n-butylphthalate (DBP)	ug/kg	<300 J	<200	<300 [<300]	<200	NA	NA	NA	<100	<400	<80	<200 J	<300 J	NA	NA
Di-n-octyl phthalate (DnOP)	ug/kg	<300	<200	<300 [<300]	<200	NA	NA	NA	<100	R	<80	<200	<300	NA	NA
Fluoranthene	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	650	600	<40	200	<100	NA	NA
Fluorene	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
Hexachlorobenzene	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
Hexachlorobutadiene	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
Hexachlorocyclopentadiene	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
Hexachloroethane	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	170	R	<40	<100	<100	NA	NA
Isophorone	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
Nitrobenzene	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
N-Nitrosodi-n-propylamine	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
N-Nitrosodiphenylamine	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
Pentachlorophenol	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
Phenanthrene	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	380	400	<40	100	<100	NA	NA
Phenol	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	<70	<200	<40	<100	<100	NA	NA
Pyrene	ug/kg	<100	<100	<100 [<100]	<100	NA	NA	NA	550	800	<40	200	<100	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	SB-A16-HU168 19 - 20 09/20/12	SB-A16-HU171 1 - 2 11/09/12	SB-A16-HU171 12 - 13 11/09/12	SB-A16-HU171 18 - 19 11/09/12	SB-A16-HU178 0 - 1 11/28/12	SB-A16-HU178 5 - 6 11/28/12	SB-A16-HU178 24 - 25 11/28/12	SB-A16-HX162 1 - 2 06/06/12	SB-A16-HX162 8 - 9 06/06/12	SB-A16-HX162 19 - 20 06/06/12	SB-A16-HX165 1 - 2 09/20/12	SB-A16-HX165 19 - 20 09/20/12	SB-A16-HX176 0 - 1 11/28/12	SB-A16-HX176 5 - 6 11/28/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	<0.20	<0.22	<0.27 [<0.27]	<0.23	NA	NA	NA	<0.20	<0.20	<0.21	<0.20	<0.20	NA	NA
Arsenic	mg/kg	2.55	1.66	4.73 [6.84]	3.46	15.1^{abi}	7.94^{abi}	2.19	1.40	1.41	0.87	1.98	2.50	3.28	0.73 [0.34]
Barium	mg/kg	47.5	31.7	60.2 [70.3]	44.6	NA	NA	NA	31.7	58.2	28.4	30.1	52.5	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.20	0.33	<0.21	NA	NA	NA	NA
Boron	mg/kg	<4.0	<4.4	<5.5 [6.1]	<4.6	NA	NA	NA	<4.0	<4.1	<4.2	<4.0	<4.0	NA	NA
Cadmium	mg/kg	0.18	0.18	0.25 [0.34]	0.12	NA	NA	NA	0.21	0.43	<0.10	0.19	0.21	NA	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	4.50	7.19	11.2 [12.9]	11.1	NA	NA	NA	5.66	4.44	3.53	4.75	6.81	NA	NA
Cobalt	mg/kg	4.35	4.51	6.13 [6.28]	6.17	2.96	2.67	3.38	2.83	3.33	3.05	2.75	5.52	3.06	2.81 [2.37]
Copper	mg/kg	16.3	7.17	19.3 [21.4]	14.4	NA	NA	NA	13.0	15.7	12.0	9.67	17.2	NA	NA
Lead	mg/kg	7.70	5.39	7.94 [8.09]	6.34	NA	NA	NA	27.0ⁱ	35.7ⁱ	5.07	18.9	7.67	NA	NA
Manganese	mg/kg	465^{abi}	235	388 [370]	368	258	244	200	249	257	292	294	414	234	69.5 [36.1]
Mercury	mg/kg	0.0130	0.0191	0.0138 [0.0164]	0.0129	NA	NA	NA	0.0230	0.0630	0.0122	0.0259	0.0155	NA	NA
Nickel	mg/kg	14.5	10.4	15.3 [16.8]	16.4	NA	NA	NA	7.36	7.80	8.49	8.67	17.6	NA	NA
Selenium	mg/kg	0.30	<0.11	0.30 [0.45]	0.18	0.39	0.31	0.33	<0.20	0.28	<0.21	<0.20	0.26	0.23	0.37 [0.24]
Silver	mg/kg	<0.10	0.03	0.08 [0.07]	0.05	NA	NA	NA	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.20	<0.20	<0.21	NA	NA	NA	NA
Vanadium	mg/kg	8.82	9.11	17.2 [19.2]	16.1	NA	NA	NA	5.62	10.0	7.58	5.29	10.8	NA	NA
Zinc	mg/kg	25.0	20.5	36.7 [38.4]	30.9	453^{bi}	616^{bi}	13.7	25.1	84.3ⁱ	14.0	20.4	29.8	47.2ⁱ	37.2 [22.2]
Miscellaneous															
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	75	93	77 [76]	85	87	80	89	95	89	87	94	74	88	80 [82]

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A16-HX176 15 - 16 11/28/12	SB-A16-HY168 1 - 2 11/09/12	SB-A16-HY168 11 - 12 11/09/12	SB-A16-HY168 17 - 18 11/09/12	SB-A16-IE168 0 - 1 11/28/12	SB-A16-IE168 6 - 7 11/28/12	SB-A16-IE168 15 - 16 11/28/12	SB-A17-DA145 1 - 2 05/14/12	SB-A17-DA145 7 - 8 05/14/12	SB-A17-DA145 13 - 14 05/14/12	SB-A17-DA145 19 - 20 05/14/12	SB-A17-DC142 1 - 2 05/11/12	SB-A17-DC143 0 - 1 05/14/12	SB-A17-DC143 6 - 7 05/14/12
Units															
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
1,2-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
1,4-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
2-Hexanone	ug/kg	NA	NA	NA	NA	NA	NA	NA	<810	<800	<810	<800	<830	<760	<740
Acetone	ug/kg	NA	NA	NA	NA	NA	NA	NA	<2,100 BJ	<2,900 BJ	<2,100 BJ	<2,900 BJ	<2,500 BJ	<1,900 J	<1,800 J
Bromodichloromethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
Bromoform	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
Carbon tetrachloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
Chlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
Chloroform (Trichloromethane)	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
Chloromethane (Methyl chloride)	ug/kg	NA	NA	NA	NA	NA	NA	NA	<200	<200	<200	<200	<210	<190	<180
cis-1,3-Dichloropropene	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
Styrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
trans-1,3-Dichloropropene	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	NA	<810	<800	<810	<800	<830	<760	<740
1,1,1-Trichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
1,1,2,2-Tetrachloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
1,1,2-Trichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
1,1-Dichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
1,1-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
1,2-Dichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
cis-1,2-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
trans-1,2-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
Trichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
Tetrachloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
Vinyl chloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
Chloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
Benzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
Ethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
Toluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
o-Xylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
m&p-Xylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	<160	<160	<160	<160	<170	<150	<150
Xylene (total)	ug/kg	NA	NA	NA	NA	NA	NA	NA	<241	<240	<241	<240	<253	<226	<224
Methyl tert butyl ether (MTBE)	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	NA	NA	NA	NA	NA	NA	NA	<810	<800	<810	<800	<830	<760	<740
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	NA	NA	NA	NA	NA	NA	NA	<810	<800	<810	<800	<830	<760	<740
1,2,4-Trichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
1,2-Dichloropropane	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
1,3-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
Cyclohexane	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
Methyl cyclohexane	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
Dibromochloromethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
Isopropyl benzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	<81	<80	<81	<80	<83	<76	<74

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A16-HX176 15 - 16 11/28/12	SB-A16-HY168 1 - 2 11/09/12	SB-A16-HY168 11 - 12 11/09/12	SB-A16-HY168 17 - 18 11/09/12	SB-A16-IE168 0 - 1 11/28/12	SB-A16-IE168 6 - 7 11/28/12	SB-A16-IE168 15 - 16 11/28/12	SB-A17-DA145 1 - 2 05/14/12	SB-A17-DA145 7 - 8 05/14/12	SB-A17-DA145 13 - 14 05/14/12	SB-A17-DA145 19 - 20 05/14/12	SB-A17-DC142 1 - 2 05/11/12	SB-A17-DC143 0 - 1 05/14/12	SB-A17-DC143 6 - 7 05/14/12
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200 J	<40 J	<40	<40	<40 J	<70 J	<40 J
2,4,6-Trichlorophenol	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
2,4-Dichlorophenol	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
2,4,5-Trichlorophenol	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
2,4-Dimethylphenol	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200 J	<40 J	<40	<40	<40	<70 J	<40 J
2,4-Dinitrophenol	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40 J	<40	<70	<40
2,4-Dinitrotoluene	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
2,6-Dinitrotoluene	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
2-Chloronaphthalene	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
2-Chlorophenol	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
2-Methylnaphthalene	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
2-Methylphenol	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
2-Nitroaniline	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
2-Nitrophenol	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
3&4-Methylphenol	ug/kg	NA	<200	<300 [<300]	<200	NA	NA	NA	<400	<70	<70	<70	<80	<100	<70
3,3'-Dichlorobenzidine	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
Naphthalene	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
3-Nitroaniline	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
4-Bromophenyl phenyl ether	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
4-Chloro-3-methylphenol	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
4-Chloroaniline	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
4-Chlorophenyl phenyl ether	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
4-Nitroaniline	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
4-Nitrophenol	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
Anthracene	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	60	100	<40
Acenaphthene	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
Acenaphthylene	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
Acetophenone	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200 J	<40 J	<40	<40	<40 J	<70 J	<40 J
Atrazine	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
Benzaldehyde	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
Benzo(a)anthracene	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	270	520	100
Benzo(a)pyrene	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	270	530	80
Benzo(b)fluoranthene	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	540 J	1,100 J	180 J
Benzo(g,h,i)perylene	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	130	210	50
Benzo(k)fluoranthene	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	550 J	1,120 J	190 J
Biphenyl (1,1-Biphenyl)	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
bis(2-Chloroethoxy)methane	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200 J	<40 J	<40	<40	<40 J	<70 J	<40 J
bis(2-Chloroethyl)ether	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200 J	<40 J	<40	<40	<40 J	<70 J	<40 J
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	<200	300 [<300]	<200	NA	NA	NA	<400 J	<70 J	<70	<140 B	<80	<100 J	<70 J
Butyl benzylphthalate (BBP)	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
Caprolactam	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
Carbazole	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
Chrysene	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	310	580	100
Dibenz(a,h)anthracene	ug/kg	NA	<200	<300 [<300]	<200	NA	NA	NA	<400	<70	<70	<70	<80	<100	<70
Dibenzofuran	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
Diethyl phthalate	ug/kg	NA	<200	<300 [<300]	<200	NA	NA	NA	<400	<70	<70	<70	<80	<100	<70
Dimethyl phthalate	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<300 B	<80 B	<100 B	<70 B	610	<120 B	<130 B
Di-n-butylphthalate (DBP)	ug/kg	NA	<200	<300 [<300]	<200	NA	NA	NA	<400	<70	<70	<70	<80	<100	<70
Di-n-octyl phthalate (DnOP)	ug/kg	NA	<200	<300 [<300]	<200	NA	NA	NA	<400	<70	<70	<70	<80	<100	<70
Fluoranthene	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	630	1,210	190
Fluorene	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
Hexachlorobenzene	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
Hexachlorobutadiene	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
Hexachlorocyclopentadiene	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
Hexachloroethane	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40 J	<70	<40
Indeno(1,2,3-cd)pyrene	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	120	200	50
Isophorone	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200 J	<40 J	<40	<40	<40 J	<70 J	<40 J
Nitrobenzene	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200 J	<40 J	<40	<40	<40 J	<70 J	<40 J
N-Nitrosodi-n-propylamine	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
N-Nitrosodiphenylamine	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
Pentachlorophenol	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
Phenanthrene	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	250	430	50
Phenol	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	<40	<70	<40
Pyrene	ug/kg	NA	<100	<100 [<200]	<100	NA	NA	NA	<200	<40	<40	<40	560	1,050	180

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A16-HX176 15 - 16 11/28/12	SB-A16-HY168 1 - 2 11/09/12	SB-A16-HY168 11 - 12 11/09/12	SB-A16-HY168 17 - 18 11/09/12	SB-A16-IE168 0 - 1 11/28/12	SB-A16-IE168 6 - 7 11/28/12	SB-A16-IE168 15 - 16 11/28/12	SB-A17-DA145 1 - 2 05/14/12	SB-A17-DA145 7 - 8 05/14/12	SB-A17-DA145 13 - 14 05/14/12	SB-A17-DA145 19 - 20 05/14/12	SB-A17-DC142 1 - 2 05/11/12	SB-A17-DC143 0 - 1 05/14/12	SB-A17-DC143 6 - 7 05/14/12
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	<15	<3	<3	<3	<3	<3	<3
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	<15	<3	<3	<3	<3	<5	<5
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	<15	<3	<3	<3	<3	<5	<5
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	<15	<3	<3	<3	<3	<5	<5
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	<15	<3	<3	<3	<3	<5	<5
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	<15	<3	<3	<3	<3	<5	<5
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	<15	<3	<3	<3	20	<3	<3
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	20	ND	ND
Inorganics															
Antimony	mg/kg	NA	<0.23	<0.29 [<0.32] ^{abi}	<0.22	NA	NA	NA	<0.20	<0.20	<0.20	<0.20	0.23	<0.20	<0.20
Arsenic	mg/kg	1.84	1.65	6.45 [4.72] ^{abi}	3.96	1.46	5.46	1.11	0.99	0.69	1.70	0.34	1.93	0.67	0.94
Barium	mg/kg	NA	31.8	70.9 [66.9]	57.5	NA	NA	NA	7.18	20.0	22.5	12.5	8.74	10.9	29.2
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Boron	mg/kg	NA	<4.5	7.4 [7.3]	5.2	NA	NA	NA	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Cadmium	mg/kg	NA	0.15	0.43 [0.21]	0.19	NA	NA	NA	0.14	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	8.03	14.7 [16.4]	15.5	NA	NA	NA	2.97	4.32	6.56	2.64	6.00	2.08	4.11
Cobalt	mg/kg	2.94	4.14	7.76 [8.14] ^{abi}	7.50 ^{abi}	2.80	4.80	2.46	1.73	2.46	3.62	1.59	0.84	2.58	3.10
Copper	mg/kg	NA	8.97	25.6 [21.5]	18.6	NA	NA	NA	17.7	9.35	8.44	4.90	4,080 ^{bi}	61.3 ⁱ	8.12
Lead	mg/kg	NA	11.2	9.90 [10.3]	8.04	NA	NA	NA	4.96	3.38	4.37	2.74	51.6 ⁱ	3.34	3.41
Manganese	mg/kg	233	226	294 [351]	473 ^{abi}	200	75.8	188	153	161	242	162	56.7	125	230
Mercury	mg/kg	NA	0.0201	0.0196 [0.0258]	0.0154	NA	NA	NA	0.0153	<0.0055	0.0111	<0.0054	0.0082	0.0070	0.0061
Nickel	mg/kg	NA	11.5	21.5 [21.7] ⁱ	21.2 ⁱ	NA	NA	NA	6.39	6.81	10.9	5.59	12.9	4.94	8.18
Selenium	mg/kg	0.30	<0.11	0.98 [0.38] ^{bi}	0.23	<0.20	1.37 ^{bi}	0.31	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Silver	mg/kg	NA	<0.20	0.10 [0.1]	0.06	NA	NA	NA	<0.10	<0.10	<0.10	<0.10	<0.10	0.34	<0.10
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Vanadium	mg/kg	NA	9.09	22.6 [23.2]	20.2	NA	NA	NA	3.06	6.00	7.45	4.38	5.37	1.90	7.01
Zinc	mg/kg	18.2	24.3	49.1 [51.2] ⁱ	42.9	17.4	231 ⁱ	13.9	12.1	10.4	15.4	12.8	9.12	7.53	10.9
Miscellaneous															
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	89	92	68 [66]	88	91	70	89	91	90	90	91	83	90	89

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A17-DC143 12 - 13 05/14/12	SB-A17-DC143 18 - 19 05/14/12	SB-A17-DC147 1 - 2 05/14/12	SB-A17-DC147 13 - 14 05/14/12	SB-A17-DC147 19 - 20 05/14/12	SB-A17-DE141 1 - 2 05/14/12	SB-A17-DE141 7 - 8 05/14/12	SB-A17-DE141 13 - 14 05/14/12	SB-A17-DE141 19 - 20 05/14/12	SB-A17-DE141 24 - 25 05/14/12	SB-A17-DF142 1 - 2 05/11/12	SB-A17-DF146 1 - 2 05/11/12	SB-A17-DF146 11 - 12 05/11/12	SB-A17-DH145 0 - 1 05/11/12
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
1,2-Dichlorobenzene	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
1,4-Dichlorobenzene	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
2-Hexanone	ug/kg	<860	<860	<840	<760	<680	<770	<850	<790	<790	<820	<750	<770	<690	<740 J
Acetone	ug/kg	<3,600 BJ	<2,200 J	<2,300 BJ	<1,900 J	<1,700 J	<2,100 BJ	<2,800 BJ	<2,000	<3,000 BJ	<3,000 BJ	2300	<2,100 BJ	<690	<1,900 BJ
Bromodichloromethane	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
Bromoform	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<75	NA	<70	NA
Carbon disulfide	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
Carbon tetrachloride	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
Chlorobenzene	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
Chloroform (Trichloromethane)	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
Chloromethane (Methyl chloride)	ug/kg	<210	<220	<210	<190	<170	<190	<210	<200	<200	<200	<190	<190	<70	<190
cis-1,3-Dichloropropene	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<75	NA	<70	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<75	NA	<690	NA
Methylene chloride	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
Styrene	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
trans-1,3-Dichloropropene	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<75	NA	<70	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
1,4-Dioxane	ug/kg	<860	<860	<840	<760	<680	<770	<850	<790	<790	<820	<750	<770	<7,000	<740
1,1,1-Trichloroethane	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	32 J
1,1,2,2-Tetrachloroethane	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
1,1,2-Trichloroethane	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
1,1-Dichloroethane	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
1,1-Dichloroethene	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
1,2-Dichloroethane	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
cis-1,2-Dichloroethene	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
trans-1,2-Dichloroethene	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
Trichloroethene	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
Tetrachloroethene	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
Vinyl chloride	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
Chloroethane	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
Benzene	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
Ethylbenzene	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
Toluene	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
o-Xylene	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
m&p-Xylene	ug/kg	<170	<170	<170	<150	<140	<150	<170	<160	<160	<160	<150	<150	<100	<150
Xylene (total)	ug/kg	<256	<256	<254	<226	<208	<227	<255	<239	<239	<242	<75	<227	<170	<224
Methyl tert butyl ether (MTBE)	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<860	<860	<840	<760	<680	<770	<850	<790	<790	<820	<750	<770	<690	<740
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<860	<860	<840	<760	<680	<770	<850	<790	<790	<820	<750	<770	<690	<740
1,2,4-Trichlorobenzene	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
1,2,4-Trimethylbenzene	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<80	<74
1,3,5-Trimethylbenzene	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<80	<74
1,2-Dichloropropane	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
1,3-Dichlorobenzene	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
Cyclohexane	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
Methyl cyclohexane	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
Dibromochloromethane	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
Isopropyl benzene	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<70	<74
Naphthalene	ug/kg	<86	<86	<84	<76	<68	<77	<85	<79	<79	<82	<75	<77	<80	<74

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A17-DC143 12 - 13 05/14/12	SB-A17-DC143 18 - 19 05/14/12	SB-A17-DC147 1 - 2 05/14/12	SB-A17-DC147 13 - 14 05/14/12	SB-A17-DC147 19 - 20 05/14/12	SB-A17-DE141 1 - 2 05/14/12	SB-A17-DE141 7 - 8 05/14/12	SB-A17-DE141 13 - 14 05/14/12	SB-A17-DE141 19 - 20 05/14/12	SB-A17-DE141 24 - 25 05/14/12	SB-A17-DF142 1 - 2 05/11/12	SB-A17-DF146 1 - 2 05/11/12	SB-A17-DF146 11 - 12 05/11/12	SB-A17-DH145 0 - 1 05/11/12
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40 J	<40 J	<40 J	<40 J [<40 J]	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<30 J	<80 J [<40 J]	<100 J
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
2,4-Dichlorophenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
2,4-Dimethylphenol	ug/kg	<40 J	<40 J	<40	<40 [<40 J]	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<40	<30	<80 [<40]	<100
2,4-Dinitrophenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
2-Chloronaphthalene	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
2-Chlorophenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
2-Methylnaphthalene	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
2-Methylphenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
2-Nitroaniline	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
2-Nitrophenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
3&4-Methylphenol	ug/kg	<70	<80	<70	<70 [<70]	<80	<80	<70	<70	<80	<80	<80	<70	<200 [<80]	<200
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
Naphthalene	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
3-Nitroaniline	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
4-Chloroaniline	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
4-Nitroaniline	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
4-Nitrophenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
Anthracene	ug/kg	<40	<40	<40	<40 [<40]	<40	40	<40	<40	<40	<40	<40	<30	<80 [<40]	400
Acenaphthene	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	100
Acenaphthylene	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
Acetophenone	ug/kg	<40 J	<40 J	<40 J	<40 J [<40 J]	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<30 J	<80 J [<40 J]	<100 J
Atrazine	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
Benzaldehyde	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
Benzo(a)anthracene	ug/kg	<40	<40	70	<40 [<40]	<40	150	<40	<40	<40	<40	<40	<30	<80 [<40]	1,400
Benzo(a)pyrene	ug/kg	<40	<40	70	<40 [<40]	<40	160	<40	<40	<40	<40	<40	<30	<80 [<40]	1,400
Benzo(b)fluoranthene	ug/kg	<40	<40	130 J	<40 [<40]	<40	290 J	<40	<40	<40	<40	<40	<30	<80 [<40]	2,900 p
Benzo(g,h,i)perylene	ug/kg	<40	<40	40	<40 [<40]	<40	70	<40	<40	<40	<40	<40	<30	<80 [<40]	600
Benzo(k)fluoranthene	ug/kg	<40	<40	140 J	<40 [<40]	<40	290 J	<40	<40	<40	<40	<40	<30	<80 [<40]	2,900 p
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
bis(2-Chloroethoxy)methane	ug/kg	<40 J	<40 J	<40 J	<40 J [<40 J]	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<30 J	<80 J [<40 J]	<100 J
bis(2-Chloroethyl)ether	ug/kg	<40 J	<40 J	<40 J	<40 J [<40 J]	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<30 J	<80 J [<40 J]	<100 J
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70 J	<80 J	<70	<70 [<70 J]	<80 J	<80 J	<70 J	<70 J	<80 J	<80 J	<80	<70	<200 [<80]	<200
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
Caprolactam	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
Carbazole	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	300
Chrysene	ug/kg	<40	<40	80	<40 [<40]	<40	180	<40	<40	<40	<40	<40	<30	<80 [<40]	1,700
Dibenz(a,h)anthracene	ug/kg	<70	<80	<70	<70 [<70]	<80	<80	<70	<70	<80	<80	<80	<70	<200 [<80]	<200
Dibenzofuran	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
Diethyl phthalate	ug/kg	<70	<80	<70	<70 [<70]	<80	<80	<70	<70	<80	<80	<80	<70	<200 [<80]	<200
Dimethyl phthalate	ug/kg	<70 B	<140 B	<270 B	<220 B [<140 B]	<280 B	<200 B	<100 B	<150 B	<120 B	<80 B	<330 B	440	<590 [560 J]	<100 J
Di-n-butylphthalate (DBP)	ug/kg	<70	<80	<70	<70 [<70]	<80	<80	<70	<70	<80	<80	<80	<70	<200 [<80]	<200
Di-n-octyl phthalate (DnOP)	ug/kg	<70	<80	<70	<70 [<70]	<80	<80	<70	<70	<80	<80	<80	<70	<200 [<80]	<200
Fluoranthene	ug/kg	<40	<40	160	<40 [<40]	<40	360	<40	<40	<40	<40	<40	<30	<80 [<40]	3,500
Fluorene	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	100
Hexachlorobenzene	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
Hexachlorobutadiene	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
Hexachlorocyclopentadiene	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
Hexachloroethane	ug/kg	<40	<40	<40 J	<40 J [<40]	<40	<40	<40	<40	<40	<40	<40 J	<30 J	<80 J [<40 J]	<100 J
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	40	<40 [<40]	<40	60	<40	<40	<40	<40	<40	<30	<80 [<40]	600
Isophorone	ug/kg	<40 J	<40 J	<40 J	<40 J [<40 J]	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<30 J	<80 J [<40 J]	<100 J
Nitrobenzene	ug/kg	<40 J	<40 J	<40 J	<40 J [<40 J]	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<30 J	<80 J [<40 J]	<100 J
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
N-Nitrosodiphenylamine	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
Pentachlorophenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
Phenanthrene	ug/kg	<40	<40	70	<40 [<40]	<40	140	<40	<40	<40	<40	<40	<30	<80 [<40]	1,700
Phenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	<30	<80 [<40]	<100
Pyrene	ug/kg	<40	<40	140	<40 [<40]	<40	310	<40	<40	<40	<40	<40	<30	<80 [<40]	2,900

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	SB-A17-DC143 12 - 13 05/14/12	SB-A17-DC143 18 - 19 05/14/12	SB-A17-DC147 1 - 2 05/14/12	SB-A17-DC147 13 - 14 05/14/12	SB-A17-DC147 19 - 20 05/14/12	SB-A17-DE141 1 - 2 05/14/12	SB-A17-DE141 7 - 8 05/14/12	SB-A17-DE141 13 - 14 05/14/12	SB-A17-DE141 19 - 20 05/14/12	SB-A17-DE141 24 - 25 05/14/12	SB-A17-DF142 1 - 2 05/11/12	SB-A17-DF146 1 - 2 05/11/12	SB-A17-DF146 11 - 12 05/11/12	SB-A17-DH145 0 - 1 05/11/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	<3	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3	<5 [<5]	<3
Aroclor-1221 (PCB-1221)	ug/kg	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5	<5	<3	<3	<5 [<5]	<3
Aroclor-1232 (PCB-1232)	ug/kg	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5	<5	<3	<3	<5 [<5]	<3
Aroclor-1242 (PCB-1242)	ug/kg	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5	<5	<3	<3	<5 [<5]	<3
Aroclor-1248 (PCB-1248)	ug/kg	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5	<5	<3	<3	<5 [<5]	<3
Aroclor-1254 (PCB-1254)	ug/kg	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5	<5	<3	<3	<5 [<5]	<3
Aroclor-1260 (PCB-1260)	ug/kg	<3	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	<3	<5 [<5]	<3
Total PCBs	ug/kg	ND	ND	ND	ND [ND]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics															
Antimony	mg/kg	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20 [<0.2]	<0.20
Arsenic	mg/kg	1.34	1.47	0.59	1.31 [1.46]	0.47	0.72	0.75	1.68	0.55	2.29	1.10	0.43	0.63 [0.44]	0.91
Barium	mg/kg	23.3	56.9	5.17	13.0 [11.7]	8.65	21.5	13.7	15.3	7.73	10.0	9.52	2.71	11.1 [11.3]	9.67
Beryllium	mg/kg	<0.20	0.31	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20 [<0.2]	<0.20
Boron	mg/kg	<4.0	<4.0	<4.0	<4.0 [<4]	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	4.0 [<4]	<4.0
Cadmium	mg/kg	<0.10	0.13	<0.10	0.14 [<0.1]	0.13	<0.10	<0.10	0.18	<0.10	<0.10	<0.10	<0.10	0.10 [<0.1]	0.12
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	5.55	8.59	1.08	3.11 [2.73]	1.81	2.10	1.84	2.97	1.37	2.62	1.17	0.70	1.73 [1.48]	1.74
Cobalt	mg/kg	3.67	5.99	1.31	2.66 [2.67]	1.25	3.31	1.47	2.94	0.68	4.33	0.88	0.91	1.23 [0.98]	2.15
Copper	mg/kg	8.92	13.8	2.66	9.05 [8.51]	4.44	3.50	3.14	9.18	2.15	7.08	181 ^{bi}	0.92	3.58 [4.36]	7.01
Lead	mg/kg	4.28	6.51	1.80	4.37 [4.29]	2.64	2.37	2.10	4.35	1.55	3.86	2.56	1.08	2.88 [2.63]	5.56
Manganese	mg/kg	251	330	123	243 [239]	208	156	164	257	129	235	78.9	108	86.9 [100]	171
Mercury	mg/kg	0.0106	0.0129	<0.0055	0.0092 [0.0091]	0.0070	0.0087	0.0080	0.0106	0.0059	0.0091	0.0095	<0.0052	0.0166 [0.0138]	0.0129
Nickel	mg/kg	11.1	16.6	4.58	8.35 [9.12]	5.68	4.11	5.52	9.37	4.27	9.36	3.81	2.72	2.03 [1.7]	4.24
Selenium	mg/kg	0.25	0.27	<0.20	0.21 [0.27]	<0.20	<0.20	<0.20	0.25	<0.20	0.22	<0.20	<0.20	0.20 [<0.2]	<0.20
Silver	mg/kg	<0.10	<0.10	<0.10	<0.10 [<0.1]	<0.10	0.25	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10 [<0.1]	<0.10
Thallium	mg/kg	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20 [<0.2]	<0.20
Vanadium	mg/kg	7.99	11.3	1.48	4.46 [4.52]	3.56	2.54	3.41	4.81	2.48	4.54	2.45	1.00	3.44 [3.43]	2.02
Zinc	mg/kg	22.7	23.2	3.07	21.6 [12.5]	9.72	3.95	5.25	26.9	4.00	25.5	3.95	1.35	3.42 [3.41]	7.73
Miscellaneous															
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	90	84	92	89 [90]	87	87	90	90	88	88	85	96	86 [86]	94

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	SB-A17-DH145 4 - 5 05/11/12	SB-A17-DH145 10 - 11 05/11/12	SB-A17-DH145 16 - 17 05/11/12	SB-A17-DH145 22 - 23 05/11/12	SB-A17-DH145 28 - 29 05/11/12	SB-A17-DU143 10 - 11 09/11/12	SB-A17-DU143 16 - 17 09/11/12	SB-A17-DU143 23 - 24 09/11/12	SB-A17-DU143 29 - 30 09/11/12	SB-A17-DU147 5 - 6 09/11/12	SB-A17-DU147 10 - 11 09/11/12	SB-A17-DU147 17 - 18 09/11/12	SB-A17-DU147 25 - 26 09/11/12	SB-A17-DU147 29 - 30 09/11/12
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
1,2-Dichlorobenzene	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
1,4-Dichlorobenzene	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
2-Hexanone	ug/kg	<770	<870	<780	<840	<770	<580 [<6,100]	<590	<550	<560	<670	<5,700	<590	<500	<610
Acetone	ug/kg	<1,900 J	<2,300 BJ	<2,000 BJ	<2,500 BJ	<2,100 BJ	<580 [<6,100]	<590	<550	<560	<670	<5,700	<590	<500	<610
Bromodichloromethane	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
Bromoform	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
Carbon disulfide	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
Carbon tetrachloride	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
Chlorobenzene	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
Chloroform (Trichloromethane)	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
Chloromethane (Methyl chloride)	ug/kg	<190	<220	<200	<210	<190	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
cis-1,3-Dichloropropene	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	<580 [<6,100]	<590	<550	<560	<670	<5,700	<590	<500	<610
Methylene chloride	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
Styrene	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
trans-1,3-Dichloropropene	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
Trifluorotrichloroethane (Freon 113)	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
1,4-Dioxane	ug/kg	<770	<870	<780	<840	<770	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	<77	<87	28 J	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
1,1,2,2-Tetrachloroethane	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
1,1,2-Trichloroethane	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
1,1-Dichloroethane	ug/kg	<77	<87	<78	<84	<77	270 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
1,1-Dichloroethene	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
1,2-Dichloroethane	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
cis-1,2-Dichloroethene	ug/kg	<77	<87	<78	<84	<77	2,970 [5,300 Y] ^a	<60	<60	<60	<70	<600	<60	<50	<60
trans-1,2-Dichloroethene	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
Trichloroethene	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
Tetrachloroethene	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
Vinyl chloride	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
Chloroethane	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
Benzene	ug/kg	<77	<87	<78	<84	<77	840 [1,200 Y] ^a	<60	<60	<60	<70	<600	<60	<50	<60
Ethylbenzene	ug/kg	<77	<87	<78	<84	<77	5,270 [7,000 Y] ^{ab}	<60	<60	<60	<70	10,400 Y ^{ab}	<60	<50	<60
Toluene	ug/kg	<77	<87	<78	<84	<77	10,250 [15,700 Y] ^b	<60	<60	<60	<70	2,100 Y	<60	<50	<60
o-Xylene	ug/kg	<77	<87	<78	<84	<77	7,340 [9,700 Y] ^{ab}	<60	<60	<60	<70	5,300 Y ^b	<60	<50	<60
m&p-Xylene	ug/kg	<150	<170	<160	<170	<150	16,500 [25,000 Y] ^{ab}	<100	<100	<100	<100	42,000 Y ^{ab}	<100	<100	<100
Xylene (total)	ug/kg	<227	<257	<238	<254	<227	23,840 [34,700] ^{ab}	<160	<160	<160	<170	47,300 ^{ab}	<160	<150	<160
Methyl tert butyl ether (MTBE)	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<770	<870	<780	<840	<770	<580 [<6,100]	<590	<550	<560	<670	<5,700	<590	<500	<610
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<770	<870	<780	<840	<770	<580 [<6,100]	<590	<550	<560	<670	<5,700	<590	<500	<610
1,2,4-Trichlorobenzene	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
1,2,4-Trimethylbenzene	ug/kg	<77	<87	<78	<84	<77	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	<77	<87	<78	<84	<77	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
1,3-Dichlorobenzene	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
Cyclohexane	ug/kg	<77	<87	<78	<84	<77	1,990 [1,600 Y]	<60	<60	<60	<70	2,100 Y	<60	<50	<60
Methyl cyclohexane	ug/kg	<77	<87	<78	<84	<77	4,660 [4,400 Y]	<60	<60	<60	<70	800 Y	<60	<50	<60
Dibromochloromethane	ug/kg	<77	<87	<78	<84	<77	<60 [<600]	<60	<60	<60	<70	<600	<60	<50	<60
Isopropyl benzene	ug/kg	<77	<87	<78	<84	<77	530 [600 Y]	<60	<60	<60	<70	700 Y	<60	<50	<60
Naphthalene	ug/kg	<77	<87	<78	<84	<77	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A17-DH145 4 - 5 05/11/12	SB-A17-DH145 10 - 11 05/11/12	SB-A17-DH145 16 - 17 05/11/12	SB-A17-DH145 22 - 23 05/11/12	SB-A17-DH145 28 - 29 05/11/12	SB-A17-DU143 10 - 11 09/11/12	SB-A17-DU143 16 - 17 09/11/12	SB-A17-DU143 23 - 24 09/11/12	SB-A17-DU143 29 - 30 09/11/12	SB-A17-DU147 5 - 6 09/11/12	SB-A17-DU147 10 - 11 09/11/12	SB-A17-DU147 17 - 18 09/11/12	SB-A17-DU147 25 - 26 09/11/12	SB-A17-DU147 29 - 30 09/11/12
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	<400 [<400]	<100	<100	<100	<100	<100	<100	<100	<100
2-Methyl-4,6-dinitrophenol	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<400 J	<40 J	<40 J	<40 J	<30 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/kg	<400 J	<40	<40	<40	R	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/kg	<400 J	<40	<40	<40	<30	500 X [400 X]	<100	<100	<100	<100	200	<100	<100	<100
2-Methylphenol	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/kg	<800 J	<70	<80	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	<400 J	<40	<40	<40	<30	900 X [800 X] ^b	<100	<100	<100	<100	1,300 ^b	<100	<100	<100
3-Nitroaniline	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/kg	<400 J	<40	<40	<40	<30	<400 [<400]	<100	<100	<100	<100	<100	<100	<100	<100
Acenaphthene	ug/kg	<400 J	<40	<40	<40	<30	<400 [<400]	<100	<100	<100	<100	<100	<100	<100	<100
Acenaphthylene	ug/kg	<400 J	<40	<40	<40	<30	<400 [<400]	<100	<100	<100	<100	<100	<100	<100	<100
Acetophenone	ug/kg	<400 J	<40 J	<40 J	<40 J	<30 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/kg	<400 J	<40	<40	<40	<30	<400 [<400]	<100	<100	<100	<100	<100	<100	<100	<100
Benzo(a)pyrene	ug/kg	<400 J	<40	<40	<40	<30	<400 [<400]	<100	<100	<100	<100	<100	<100	<100	<100
Benzo(b)fluoranthene	ug/kg	<400 J	<40	<40	<40	<30	<400 [<400]	<100	<100	<100	<100	<100	<100	<100	<100
Benzo(g,h,i)perylene	ug/kg	<400 J	<40	<40	<40	<30	<400 [<400]	<100	<100	<100	<100	<100	<100	<100	<100
Benzo(k)fluoranthene	ug/kg	<400 J	<40	<40	<40	<30	<400 [<400]	<100	<100	<100	<100	<100	<100	<100	<100
Biphenyl (1,1-Biphenyl)	ug/kg	<400 J	<40 J	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/kg	<400 J	<40 J	<40 J	<40 J	<30 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/kg	<400 J	<40 J	<40 J	<40 J	<30 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<800 J	<70	<80	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/kg	<400 J	<40	<40	<40	<30	<400 [<400]	<100	<100	<100	<100	<100	<100	<100	<100
Dibenz(a,h)anthracene	ug/kg	<800 J	<70	<80	<70	<70	<400 [<400]	<100	<100	<100	<100	<100	<100	<100	<100
Dibenzofuran	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/kg	<800 J	<70	<80	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/kg	<400 J	<170 B	<70 B	<40 B	<100 B	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/kg	<800 J	<70	<80	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/kg	<800 J	<70	<80	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/kg	<400 J	<40	<40	<40	<30	<400 [<400]	<100	<100	<100	<100	<100	<100	<100	<100
Fluorene	ug/kg	<400 J	<40	<40	<40	<30	<400 [<400]	<100	<100	<100	<100	<100	<100	<100	<100
Hexachlorobenzene	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/kg	<400 J	<40 J	<40 J	<40 J	<30 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	<400 J	<40	<40	<40	<30	<400 [<400]	<100	<100	<100	<100	<100	<100	<100	<100
Isophorone	ug/kg	<400 J	<40 J	<40 J	<40 J	<30 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/kg	<400 J	<40 J	<40 J	<40 J	<30 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/kg	<400 J	<40	<40	<40	<30	<400 [<400]	<100	<100	<100	<100	<100	<100	<100	<100
Phenol	ug/kg	<400 J	<40	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/kg	<400 J	<40	<40	<40	<30	<400 [<400]	<100	<100	<100	<100	<100	<100	<100	<100

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A17-DH145 4 - 5 05/11/12	SB-A17-DH145 10 - 11 05/11/12	SB-A17-DH145 16 - 17 05/11/12	SB-A17-DH145 22 - 23 05/11/12	SB-A17-DH145 28 - 29 05/11/12	SB-A17-DU143 10 - 11 09/11/12	SB-A17-DU143 16 - 17 09/11/12	SB-A17-DU143 23 - 24 09/11/12	SB-A17-DU143 29 - 30 09/11/12	SB-A17-DU147 5 - 6 09/11/12	SB-A17-DU147 10 - 11 09/11/12	SB-A17-DU147 17 - 18 09/11/12	SB-A17-DU147 25 - 26 09/11/12	SB-A17-DU147 29 - 30 09/11/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	<3	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	1.02	1.77	0.68	1.73	0.43	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	14.6	14.4	9.08	14.5	3.16	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/kg	<4.0	<4.0	<4.0	<4.0	<4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	1.82	2.49	1.30	2.36	0.88	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	2.47	2.30	0.78	2.04	0.54	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	3.83	6.84	2.37	6.37	1.92	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	2.70	3.44	1.26	3.13	1.09	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	172	217	119	246	82.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	0.0065	0.0080	<0.0056	0.0087	<0.0050	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	5.01	7.32	3.77	6.86	3.08	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	<0.20	0.25	<0.20	0.26	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	3.18	3.93	1.99	3.59	1.00	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	6.16	10.1	3.64	11.2	3.37	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	85	90	88	90	99	91 [91]	90	94	95	86	93	93	98	90

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A17-DU156 2 - 3 09/19/12	SB-A17-DU156 8.5 - 9.5 09/19/12	SB-A17-DU156 14 - 15 09/19/12	SB-A17-DU156 20.5 - 21.5 09/19/12	SB-A17-DU156 25 - 26 09/19/12	SB-A17-DY143 1 - 2 09/10/12	SB-A17-DY143 13 - 14 09/10/12	SB-A17-DY143 19 - 20 09/11/12	SB-A17-DY143 26 - 27 09/11/12	SB-A17-EC135 1 - 2 09/11/12	SB-A17-EC135 6 - 7 09/11/12	SB-A17-EC135 10 - 11 09/11/12	SB-A17-EC135 16 - 17 09/11/12	SB-A17-EC135 22 - 23 09/11/12
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
1,2-Dichlorobenzene	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
1,4-Dichlorobenzene	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
2-Hexanone	ug/kg	<630	<560 [<610]	<630	<660	<520	<550	<5,900 [<5,700]	<680	<590	<650	<570	<620	<650	<620
Acetone	ug/kg	<630	<560 [<610]	<630	<660	<520	<550	<5,900 [<5,700]	<680	<590	<650	<570	<620	<650	<620
Bromodichloromethane	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
Bromoform	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
Bromomethane (Methyl bromide)	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
Carbon disulfide	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
Carbon tetrachloride	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
Chlorobenzene	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
Chloroform (Trichloromethane)	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
Chloromethane (Methyl chloride)	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
cis-1,3-Dichloropropene	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
Dichlorodifluoromethane (CFC-12)	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
Methyl acetate	ug/kg	<630	<560 [<610]	<630	<660	<520	<550	<5,900 [<5,700]	<680	<590	<650	<570	<620	<650	<620
Methylene chloride	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
Styrene	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
trans-1,3-Dichloropropene	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
Trichlorofluoromethane (CFC-11)	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
Trifluorotrichloroethane (Freon 113)	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
1,1,2,2-Tetrachloroethane	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
1,1,2-Trichloroethane	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
1,1-Dichloroethane	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
1,1-Dichloroethene	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
1,2-Dichloroethane	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
cis-1,2-Dichloroethene	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
trans-1,2-Dichloroethene	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
Trichloroethene	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
Tetrachloroethene	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
Vinyl chloride	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
Chloroethane	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
Benzene	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	4,700 Y [4,000 Y] ^{ab}	210 ^a	140 ^a	<60	<60	<60	<70	<60
Ethylbenzene	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	18,000 Y [16,300 Y] ^{ab}	<70	250	<60	<60	<60	<70	<60
Toluene	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	37,400 Y [32,600 Y] ^{ab}	<70	560	<60	<60	<60	<70	<60
o-Xylene	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	26,700 Y [25,700 Y] ^{ab}	<70	300	<60	<60	<60	<70	<60
m&p-Xylene	ug/kg	<100	<100 [<100]	<100	<100	<100	<100	64,000 Y [59,000 Y] ^{ab}	<100	1,000 ^b	<100	<100	<100	<100	<100
Xylene (total)	ug/kg	<160	<160 [<160]	<160	<170	<150	<150	90,700 [84,700] ^{ab}	<170	1,300 ^b	<160	<160	<160	<170	<160
Methyl tert butyl ether (MTBE)	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<630	<560 [<610]	<630	<660	<520	<550	<5,900 [<5,700]	<680	<590	<650	<570	<620	<650	<620
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<630	<560 [<610]	<630	<660	<520	<550	<5,900 [<5,700]	<680	<590	<650	<570	<620	<650	<620
1,2,4-Trichlorobenzene	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
1,3-Dichlorobenzene	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
Cyclohexane	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	12,800 Y [9,300 Y]	<70	<60	<60	<60	<60	<70	<60
Methyl cyclohexane	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	22,700 Y [18,400 Y]	<70	100	<60	<60	<60	<70	<60
Dibromochloromethane	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	<600 [<600]	<70	<60	<60	<60	<60	<70	<60
Isopropyl benzene	ug/kg	<60	<60 [<60]	<60	<70	<50	<50	1,900 Y [1,800 Y]	<70	<60	<60	<60	<60	<70	<60
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A17-DU156 2 - 3 09/19/12	SB-A17-DU156 8.5 - 9.5 09/19/12	SB-A17-DU156 14 - 15 09/19/12	SB-A17-DU156 20.5 - 21.5 09/19/12	SB-A17-DU156 25 - 26 09/19/12	SB-A17-DY143 1 - 2 09/10/12	SB-A17-DY143 13 - 14 09/10/12	SB-A17-DY143 19 - 20 09/11/12	SB-A17-DY143 26 - 27 09/11/12	SB-A17-EC135 1 - 2 09/11/12	SB-A17-EC135 6 - 7 09/11/12	SB-A17-EC135 10 - 11 09/11/12	SB-A17-EC135 16 - 17 09/11/12	SB-A17-EC135 22 - 23 09/11/12
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	<100 J	<100 J [<100]	<100 J	<100	<100	<100	<700 [<700]	<100	<100	<100	<100	<100	<100	<100
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/kg	<100 J	<100 J [<100]	<100 J	<100	<100	<100	<700 [<700]	<100	<100	<100	<100	<100	<100 J	<100
2-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	<100 J	<100 J [<100]	<100 J	<100	<100	<100	1,100 X [1,400 X] ^b	<100	<100	<100	<100	<100	<100 J	<100
3-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/kg	<100 J	<100 J [<100]	<100 J	<100	<100	<100	<700 [<700]	<100	<100	<100	<100	<100	<100	<100
Acenaphthene	ug/kg	<100 J	<100 J [<100]	<100 J	<100	<100	<100	<700 [<700]	<100	<100	<100	<100	<100	<100	<100
Acenaphthylene	ug/kg	<100 J	<100 J [<100]	<100 J	<100	<100	<100	<700 [<700]	<100	<100	<100	<100	<100	<100	<100
Acetophenone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/kg	<100 J	<100 J [<100]	<100 J	<100	<100	<100	<700 [<700]	<100	<100	<100	<100	<100	<100	<100
Benzo(a)pyrene	ug/kg	<100 J	<100 J [<100]	<100 J	<100	<100	<100	<700 [<700]	<100	<100	<100	<100	<100	<100	<100
Benzo(b)fluoranthene	ug/kg	<100 J	<100 J [<100]	<100 J	<100	<100	<100	<700 [<700]	<100	<100	<100	<100	<100	<100	<100
Benzo(g,h,i)perylene	ug/kg	<100 J	<100 J [<100]	<100 J	<100	<100	<100	<700 [<700]	<100	<100	<100	<100	<100	<100	<100
Benzo(k)fluoranthene	ug/kg	<100 J	<100 J [<100]	<100 J	<100	<100	<100	<700 [<700]	<100	<100	<100	<100	<100	<100	<100
Biphenyl (1,1-Biphenyl)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/kg	<100 J	<100 J [<100]	<100 J	<100	<100	<100	<700 [<700]	<100	<100	<100	<100	<100	<100	<100
Dibenz(a,h)anthracene	ug/kg	<100 J	<100 J [<100]	<100 J	<100	<100	<100	<700 [<700]	<100	<100	<100	<100	<100	<100	<100
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/kg	<100 J	<100 J [<100]	<100 J	<100	<100	<100	<700 [<700]	<100	<100	<100	<100	<100	<100	<100
Fluorene	ug/kg	<100 J	<100 J [<100]	<100 J	<100	<100	<100	<700 [<700]	<100	<100	<100	<100	<100	<100	<100
Hexachlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	<100 J	<100 J [<100]	<100 J	<100	<100	<100	<700 [<700]	<100	<100	<100	<100	<100	<100	<100
Isophorone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/kg	<100 J	<100 J [<100]	<100 J	<100	<100	<100	<700 [<700]	<100	<100	<100	<100	<100	<100	<100
Phenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/kg	<100 J	<100 J [<100]	<100 J	<100	<100	<100	<700 [<700]	<100	<100	<100	<100	<100	<100	<100

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A17-DU156 2 - 3 09/19/12	SB-A17-DU156 8.5 - 9.5 09/19/12	SB-A17-DU156 14 - 15 09/19/12	SB-A17-DU156 20.5 - 21.5 09/19/12	SB-A17-DU156 25 - 26 09/19/12	SB-A17-DY143 1 - 2 09/10/12	SB-A17-DY143 13 - 14 09/10/12	SB-A17-DY143 19 - 20 09/11/12	SB-A17-DY143 26 - 27 09/11/12	SB-A17-EC135 1 - 2 09/11/12	SB-A17-EC135 6 - 7 09/11/12	SB-A17-EC135 10 - 11 09/11/12	SB-A17-EC135 16 - 17 09/11/12	SB-A17-EC135 22 - 23 09/11/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	88	93 [92]	87	88	98	95	94 [94]	84	93	92	92	90	86	91

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A17-EC135 29 - 30 09/11/12	SB-A17-EC147 7 - 8 09/11/12	SB-A17-EC147 13 - 14 09/11/12	SB-A17-EC147 18 - 19 09/11/12	SB-A17-EC147 24 - 25 09/11/12	SB-A17-EC147 27.5 - 28.5 09/11/12	SB-A17-EC156 1 - 2 09/19/12	SB-A17-EC156 14 - 15 09/19/12	SB-A17-EC156 22 - 23 09/19/12	SB-A17-EC156 28 - 29 09/19/12	SB-A17-EE179 0.5 - 1.5 09/10/12	SB-A17-EE179 7.5 - 8.5 09/10/12	SB-A17-EE179 16 - 17 09/10/12	SB-A17-EH142 2 - 3 09/10/12
Units															
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
1,2-Dichlorobenzene	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
1,4-Dichlorobenzene	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
2-Hexanone	ug/kg	<530	<730 [<660]	<630	<660	<550	<590	<630	<650	<520	<640	NA	NA	NA	<570
Acetone	ug/kg	<530	<730 [<660]	<630	<660	<550	<590	<630	<650	<520	<640	NA	NA	NA	<570
Bromodichloromethane	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
Bromoform	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
Bromomethane (Methyl bromide)	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
Carbon disulfide	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
Carbon tetrachloride	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
Chlorobenzene	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
Chloroform (Trichloromethane)	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
Chloromethane (Methyl chloride)	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
cis-1,3-Dichloropropene	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
Dichlorodifluoromethane (CFC-12)	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
Methyl acetate	ug/kg	<530	<730 [<660]	<630	<660	<550	<590	<630	<650	<520	<640	NA	NA	NA	<570
Methylene chloride	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
Styrene	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
trans-1,3-Dichloropropene	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
Trichlorofluoromethane (CFC-11)	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
Trifluorotrichloroethane (Freon 113)	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
1,1,2,2-Tetrachloroethane	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
1,1,2-Trichloroethane	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
1,1-Dichloroethane	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
1,1-Dichloroethene	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
1,2-Dichloroethane	ug/kg	<50	<70 [<70]	2,040 ^a	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
cis-1,2-Dichloroethene	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
trans-1,2-Dichloroethene	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
Trichloroethene	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
Tetrachloroethene	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
Vinyl chloride	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
Chloroethane	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
Benzene	ug/kg	<50	<70 [<70]	10,210 ^{abd}	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
Ethylbenzene	ug/kg	<50	10,520 [4,130] ^{ab}	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
Toluene	ug/kg	<50	200 [70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
o-Xylene	ug/kg	<50	1,290 J [350 J] ^b	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
m&p-Xylene	ug/kg	<100	24,900 [11,100] ^{ab}	<100	<100	<100	<100	<100	<100	<100	<100	NA	NA	NA	<100
Xylene (total)	ug/kg	<150	26,190 J [11,450 J] ^{ab}	<160	<170	<160	<160	<160	<160	<150	<160	NA	NA	NA	<160
Methyl tert butyl ether (MTBE)	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<530	<730 [<660]	<630	<660	<550	<590	<630	<650	<520	<640	NA	NA	NA	<570
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<530	<730 [<660]	<630	<660	<550	<590	<630	<650	<520	<640	NA	NA	NA	<570
1,2,4-Trichlorobenzene	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
1,3-Dichlorobenzene	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
Cyclohexane	ug/kg	<50	4,720 J [1,400 J]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
Methyl cyclohexane	ug/kg	<50	12,460 J [3,710 J]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
Dibromochloromethane	ug/kg	<50	<70 [<70]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
Isopropyl benzene	ug/kg	<50	1,230 J [400 J]	<60	<70	<60	<60	<60	<60	<50	<60	NA	NA	NA	<60
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A17-EC135 29 - 30 09/11/12	SB-A17-EC147 7 - 8 09/11/12	SB-A17-EC147 13 - 14 09/11/12	SB-A17-EC147 18 - 19 09/11/12	SB-A17-EC147 24 - 25 09/11/12	SB-A17-EC147 27.5 - 28.5 09/11/12	SB-A17-EC156 1 - 2 09/19/12	SB-A17-EC156 14 - 15 09/19/12	SB-A17-EC156 22 - 23 09/19/12	SB-A17-EC156 28 - 29 09/19/12	SB-A17-EE179 0.5 - 1.5 09/10/12	SB-A17-EE179 7.5 - 8.5 09/10/12	SB-A17-EE179 16 - 17 09/10/12	SB-A17-EH142 2 - 3 09/10/12
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	<100	500 [400]	<100	<100	<100	<100	<100 J	<100 J	<100 J	<100 J	NA	NA	NA	<100
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/kg	<100	1,200 [1,000]	<100	<100	<100	<100	<100 J	<100 J	<100 J	<100 J	NA	NA	NA	<100
2-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	<100	1,500 [1,100] ^b	<100	<100	<100	<100	<100 J	<100 J	<100 J	<100 J	NA	NA	NA	<100
3-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/kg	<100	<100 [<100]	<100	<100	<100	<100	<100 J	<100 J	<100 J	<100 J	NA	NA	NA	<100
Acenaphthene	ug/kg	<100	<100 [<100]	<100	<100	<100	<100	<100 J	<100 J	<100 J	<100 J	NA	NA	NA	<100
Acenaphthylene	ug/kg	<100	<100 [<100]	<100	<100	<100	<100	<100 J	<100 J	<100 J	<100 J	NA	NA	NA	<100
Acetophenone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/kg	<100	<100 [<100]	<100	<100	<100	<100	<100 J	<100 J	<100 J	<100 J	NA	NA	NA	<100
Benzo(a)pyrene	ug/kg	<100	<100 [<100]	<100	<100	<100	<100	<100 J	<100 J	<100 J	<100 J	NA	NA	NA	<100
Benzo(b)fluoranthene	ug/kg	<100	<100 [<100]	<100	<100	<100	<100	<100 J	<100 J	<100 J	<100 J	NA	NA	NA	<100
Benzo(g,h,i)perylene	ug/kg	<100	<100 [<100]	<100	<100	<100	<100	<100 J	<100 J	<100 J	<100 J	NA	NA	NA	<100
Benzo(k)fluoranthene	ug/kg	<100	<100 [<100]	<100	<100	<100	<100	<100 J	<100 J	<100 J	<100 J	NA	NA	NA	<100
Biphenyl (1,1-Biphenyl)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/kg	<100	<100 [<100]	<100	<100	<100	<100	<100 J	<100 J	<100 J	<100 J	NA	NA	NA	<100
Dibenz(a,h)anthracene	ug/kg	<100	<100 [<100]	<100	<100	<100	<100	<100 J	<100 J	<100 J	<100 J	NA	NA	NA	<100
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/kg	<100	<100 [<100]	<100	<100	<100	<100	<100 J	<100 J	<100 J	<100 J	NA	NA	NA	<100
Fluorene	ug/kg	<100	<100 [<100]	<100	<100	<100	<100	<100 J	<100 J	<100 J	<100 J	NA	NA	NA	<100
Hexachlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	<100	<100 [<100]	<100	<100	<100	<100	<100 J	<100 J	<100 J	<100 J	NA	NA	NA	<100
Isophorone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/kg	<100	<100 [<100]	<100	<100	<100	<100	<100 J	<100 J	<100 J	<100 J	NA	NA	NA	<100
Phenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/kg	<100	<100 [<100]	<100	<100	<100	<100	<100 J	<100 J	<100 J	<100 J	NA	NA	NA	<100

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A17-EC135 29 - 30 09/11/12	SB-A17-EC147 7 - 8 09/11/12	SB-A17-EC147 13 - 14 09/11/12	SB-A17-EC147 18 - 19 09/11/12	SB-A17-EC147 24 - 25 09/11/12	SB-A17-EC147 27.5 - 28.5 09/11/12	SB-A17-EC156 1 - 2 09/19/12	SB-A17-EC156 14 - 15 09/19/12	SB-A17-EC156 22 - 23 09/19/12	SB-A17-EC156 28 - 29 09/19/12	SB-A17-EE179 0.5 - 1.5 09/10/12	SB-A17-EE179 7.5 - 8.5 09/10/12	SB-A17-EE179 16 - 17 09/10/12	SB-A17-EH142 2 - 3 09/10/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.21	<0.24	<0.23	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.66	2.78	2.20	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.37	20.0	29.1	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.1	<4.7	<4.6	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10	<0.12	0.15	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.85	5.79	10.0	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.25	3.14	5.64	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.59	8.67	12.0	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.32	3.50	4.60	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	129 J	298 J	316 J	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0064	0.0057	0.0080	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.32	7.92	15.0	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10	<0.59	0.19	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10	<0.12	<0.11	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.48	7.21	11.6	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.4 J	16.9 J	32.6 J	NA
Miscellaneous															
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	97	86 [89]	90	87	93	92	92	87	96	90	92	89	87	92

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A17-EH142 17 - 18 09/10/12	SB-A17-EH142 24 - 25 09/10/12	SB-A17-EH142 29 - 30 09/10/12	SB-A18-BZ146 1 - 2 09/12/12	SB-A18-BZ146 9 - 10 09/12/12	SB-A18-BZ146 29 - 30 09/12/12	SB-A18-CD146 0.5 - 1 05/15/12	SB-A18-CD146 11 - 12 05/15/12	SB-A18-CD146 20 - 21 05/15/12	SB-A18-CD150 1 - 2 09/12/12	SB-A18-CD150 8 - 9 09/12/12	SB-A18-CD150 29 - 30 09/12/12	SB-A18-CI138 1 - 2 05/15/12	SB-A18-CI138 22 - 23 05/15/12
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
1,2-Dichlorobenzene	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
1,4-Dichlorobenzene	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
2-Hexanone	ug/kg	<630	<520	<620	NA	NA	NA	<750	<760	<810	NA	NA	NA	<790	<820
Acetone	ug/kg	<630	<520	<620	NA	NA	NA	<2,300 BJ	<6,800 BJ	<6,900 BJ	NA	NA	NA	<3,200 BJ	<4,800 BJ
Bromodichloromethane	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
Bromoform	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
Bromomethane (Methyl bromide)	ug/kg	<60	<50	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
Carbon tetrachloride	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
Chlorobenzene	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
Chloroform (Trichloromethane)	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	32 J	NA	NA	NA	<79	45 J
Chloromethane (Methyl chloride)	ug/kg	<60	<50	<60	NA	NA	NA	<190	<190	<200	NA	NA	NA	<200	<200
cis-1,3-Dichloropropene	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
Dichlorodifluoromethane (CFC-12)	ug/kg	<60	<50	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	<630	<520	<620	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
Styrene	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
trans-1,3-Dichloropropene	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
Trichlorofluoromethane (CFC-11)	ug/kg	<60	<50	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<60	<50	<60	NA	NA	NA	<75 J	<76 J	<81 J	NA	NA	NA	<79 J	<82 J
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	<750	<760	<810	NA	NA	NA	<790	<820
1,1,1-Trichloroethane	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
1,1,2,2-Tetrachloroethane	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
1,1,2-Trichloroethane	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
1,1-Dichloroethane	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
1,1-Dichloroethene	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
1,2-Dichloroethane	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
cis-1,2-Dichloroethene	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
trans-1,2-Dichloroethene	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
Trichloroethene	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
Tetrachloroethene	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
Vinyl chloride	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
Chloroethane	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
Benzene	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
Ethylbenzene	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
Toluene	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
o-Xylene	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
m&p-Xylene	ug/kg	<100	<100	<100	NA	NA	NA	<150	<150	<160	NA	NA	NA	<160	<160
Xylene (total)	ug/kg	<160	<150	<160	NA	NA	NA	<225	<226	<241	NA	NA	NA	<239	<242
Methyl tert butyl ether (MTBE)	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<630	<520	<620	NA	NA	NA	<750	<760	<810	NA	NA	NA	<790	<820
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<630	<520	<620	NA	NA	NA	<750	<760	<810	NA	NA	NA	<790	<820
1,2,4-Trichlorobenzene	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
1,2-Dichloropropane	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
1,3-Dichlorobenzene	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
Cyclohexane	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
Methyl cyclohexane	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
Dibromochloromethane	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
Isopropyl benzene	ug/kg	<60	<50	<60	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	<75	<76	<81	NA	NA	NA	<79	<82

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A17-EH142 17 - 18 09/10/12	SB-A17-EH142 24 - 25 09/10/12	SB-A17-EH142 29 - 30 09/10/12	SB-A18-BZ146 1 - 2 09/12/12	SB-A18-BZ146 9 - 10 09/12/12	SB-A18-BZ146 29 - 30 09/12/12	SB-A18-CD146 0.5 - 1 05/15/12	SB-A18-CD146 11 - 12 05/15/12	SB-A18-CD146 20 - 21 05/15/12	SB-A18-CD150 1 - 2 09/12/12	SB-A18-CD150 8 - 9 09/12/12	SB-A18-CD150 29 - 30 09/12/12	SB-A18-CI138 1 - 2 05/15/12	SB-A18-CI138 22 - 23 05/15/12
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	<100	<100	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	NA	NA	NA	<100 J	<100 J	<100 J	<40	<40	<40	<100 J	<100 J	<100 J	<40	<40
2,4,6-Trichlorophenol	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
2,4-Dichlorophenol	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100 J	<100	<40	<40
2,4,5-Trichlorophenol	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
2,4-Dimethylphenol	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100 J	<100	<40	<40
2,4-Dinitrophenol	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
2,4-Dinitrotoluene	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
2,6-Dinitrotoluene	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100 J	<100	<40	<40
2-Chloronaphthalene	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100 J	<100	<40	<40
2-Chlorophenol	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
2-Methylnaphthalene	ug/kg	<100	<100	<100	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
2-Methylphenol	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
2-Nitroaniline	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100 J	<100	<40	<40
2-Nitrophenol	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100 J	<100	<40	<40
3&4-Methylphenol	ug/kg	NA	NA	NA	<200	<200	<200	<70	<70	<70	<200 J	<200 J	<200 J	<80	<80
3,3'-Dichlorobenzidine	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Naphthalene	ug/kg	<100	<100	<100	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
3-Nitroaniline	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100 J	<100	<40	<40
4-Bromophenyl phenyl ether	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
4-Chloro-3-methylphenol	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
4-Chloroaniline	ug/kg	NA	NA	NA	<100 J	<100 J	<100 J	<40	<40	<40	<100 J	R	<100 J	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
4-Nitroaniline	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
4-Nitrophenol	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Anthracene	ug/kg	<100	<100	<100	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Acenaphthene	ug/kg	<100	<100	<100	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Acenaphthylene	ug/kg	<100	<100	<100	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Acetophenone	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100 J	<100	<40	<40
Atrazine	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100 J	<100	<40	<40
Benzaldehyde	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Benzo(a)anthracene	ug/kg	<100	<100	<100	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Benzo(a)pyrene	ug/kg	<100	<100	<100	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Benzo(b)fluoranthene	ug/kg	<100	<100	<100	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Benzo(g,h,i)perylene	ug/kg	<100	<100	<100	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Benzo(k)fluoranthene	ug/kg	<100	<100	<100	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Biphenyl (1,1-Biphenyl)	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100 J	<100	<40	<40
bis(2-Chloroethoxy)methane	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100 J	<100	<40	<40
bis(2-Chloroethyl)ether	ug/kg	NA	NA	NA	<100 J	<100 J	<100 J	<40	<40	<40	<100 J	<100 J	<100 J	<40	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	NA	NA	<200	<200	<200	<70	<70	<70	<200	<200	<200	<80	<80
Butyl benzylphthalate (BBP)	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100 J	<100	<40	<40
Caprolactam	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Carbazole	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Chrysene	ug/kg	<100	<100	<100	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Dibenz(a,h)anthracene	ug/kg	<100	<100	<100	<200	<200	<200	<70	<70	<70	<200	<200	<200	<80	<80
Dibenzofuran	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Diethyl phthalate	ug/kg	NA	NA	NA	<200	<200	<200	<70	<70	<70	<200	<200	<200	<80	<80
Dimethyl phthalate	ug/kg	NA	NA	NA	<100	<100	<100	<100 B	<210 B	<140 B	<100	<100 J	<100	<180 B	<140 B
Di-n-butylphthalate (DBP)	ug/kg	NA	NA	NA	<200	<200	<200	<70	<70	<70	<200	<200	<200	<80	<80
Di-n-octyl phthalate (DnOP)	ug/kg	NA	NA	NA	<200	<200	<200	<70	<70	<70	<200	<200 J	<200	<80	<80
Fluoranthene	ug/kg	<100	<100	<100	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Fluorene	ug/kg	<100	<100	<100	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Hexachlorobenzene	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Hexachlorobutadiene	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100 J	<100	<40	<40
Hexachlorocyclopentadiene	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Hexachloroethane	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<100	<100	<100	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Isophorone	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Nitrobenzene	ug/kg	NA	NA	NA	<100 J	<100 J	<100 J	<40	<40	<40	<100 J	<100 J	<100 J	<40	<40
N-Nitrosodi-n-propylamine	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	710 ^a	<100	<100	<100	<40	<40
N-Nitrosodiphenylamine	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Pentachlorophenol	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Phenanthrene	ug/kg	<100	<100	<100	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Phenol	ug/kg	NA	NA	NA	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40
Pyrene	ug/kg	<100	<100	<100	<100	<100	<100	<40	<40	<40	<100	<100	<100	<40	<40

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A17-EH142 17 - 18 09/10/12	SB-A17-EH142 24 - 25 09/10/12	SB-A17-EH142 29 - 30 09/10/12	SB-A18-BZ146 1 - 2 09/12/12	SB-A18-BZ146 9 - 10 09/12/12	SB-A18-BZ146 29 - 30 09/12/12	SB-A18-CD146 0.5 - 1 05/15/12	SB-A18-CD146 11 - 12 05/15/12	SB-A18-CD146 20 - 21 05/15/12	SB-A18-CD150 1 - 2 09/12/12	SB-A18-CD150 8 - 9 09/12/12	SB-A18-CD150 29 - 30 09/12/12	SB-A18-CI138 1 - 2 05/15/12	SB-A18-CI138 22 - 23 05/15/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	<0.20	<0.20	<0.20	NA	NA	NA	<0.20	<0.20
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	0.69	1.75	0.55	NA	NA	NA	0.87	1.89
Barium	mg/kg	NA	NA	NA	NA	NA	NA	8.93	20.7	25.9	NA	NA	NA	16.5	31.9
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	<0.20	<0.20	<0.20	NA	NA	NA	<0.20	<0.20
Boron	mg/kg	NA	NA	NA	NA	NA	NA	<4.0	<4.0	<4.0	NA	NA	NA	<4.0	<4.0
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	<0.10	<0.10	<0.10	NA	NA	NA	<0.10	<0.10
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	1.49	5.54	3.29	NA	NA	NA	3.41	3.11
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	3.59	3.42	2.45	NA	NA	NA	2.28	2.90
Copper	mg/kg	NA	NA	NA	NA	NA	NA	2.52	7.48	2.79	NA	NA	NA	4.12	5.38
Lead	mg/kg	NA	NA	NA	NA	NA	NA	1.79	4.82	2.23	NA	NA	NA	6.32	3.54
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	93.5	285	193	NA	NA	NA	245	253
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	<0.0055	0.0091	0.0070	NA	NA	NA	0.0139	0.0115
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	3.82	11.8	6.55	NA	NA	NA	6.52	7.25
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	<0.20	0.26	<0.20	NA	NA	NA	<0.20	0.22
Silver	mg/kg	NA	NA	NA	NA	NA	NA	0.46 J	<0.10 J	<0.10 J	NA	NA	NA	<0.10 J	<0.10 J
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	<0.20	<0.20	<0.20	NA	NA	NA	<0.20	<0.20
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	1.84	7.99	4.25	NA	NA	NA	3.66	6.00
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	11.4	25.4	8.62	NA	NA	NA	6.73	11.6
Miscellaneous															
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	90	97	91	89	92	91	90	90	92	92	92	94	80	83

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A18-CJ150 1 - 2 05/15/12	SB-A18-CJ153 9 - 10 09/12/12	SB-A18-CJ153 21 - 22 09/12/12	SB-A18-CJ153 29 - 30 09/12/12	SB-A18-CJ178 1 - 2 11/08/12	SB-A18-CJ178 11 - 12 11/08/12	SB-A18-CJ178 20 - 21 11/08/12	SB-A18-CJ178 29 - 30 11/08/12	SB-A18-CQ146 0.5 - 1 05/15/12	SB-A18-CQ146 20 - 21 05/15/12	SB-A18-CS144 1 - 2 05/14/12	SB-A18-CS144 12 - 13 05/14/12	SB-A18-CS144 20 - 21 05/14/12	SB-A18-CS148 1 - 2 05/14/12
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
1,2-Dichlorobenzene	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
1,4-Dichlorobenzene	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
2-Hexanone	ug/kg	<760	NA	NA	NA	NA	NA	NA	NA	<650	<770	<810	<710 [<790]	<830	<740
Acetone	ug/kg	<1,900 BJ	NA	NA	NA	NA	NA	NA	NA	<650	<3,600 BJ	<2,900 BJ	<2,900 B [<4,600 B]	<3,500 BJ	<2,200 BJ
Bromodichloromethane	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
Bromoform	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<70	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
Carbon tetrachloride	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
Chlorobenzene	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
Chloroform (Trichloromethane)	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	82 J	<74
Chloromethane (Methyl chloride)	ug/kg	<190	NA	NA	NA	NA	NA	NA	NA	<70	<190	<200	<180 [<200]	<210 J	<180
cis-1,3-Dichloropropene	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<70	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<650	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
Styrene	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
trans-1,3-Dichloropropene	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<70	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<76 J	NA	NA	NA	NA	NA	NA	NA	<70	<77 J	<81	<71 J [<79 J]	<83	<74
1,4-Dioxane	ug/kg	<760	NA	NA	NA	NA	NA	NA	NA	<7,000	<770	<810	<710 [<790]	<830	<740
1,1,1-Trichloroethane	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	250	<74
1,1,2,2-Tetrachloroethane	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
1,1,2-Trichloroethane	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
1,1-Dichloroethane	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
1,1-Dichloroethene	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
1,2-Dichloroethane	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
cis-1,2-Dichloroethene	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
trans-1,2-Dichloroethene	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
Trichloroethene	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
Tetrachloroethene	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
Vinyl chloride	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
Chloroethane	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
Benzene	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
Ethylbenzene	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
Toluene	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
o-Xylene	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
m&p-Xylene	ug/kg	<150	NA	NA	NA	NA	NA	NA	NA	<100	<150	<160	<140 [<160]	<170	<150
Xylene (total)	ug/kg	<226	NA	NA	NA	NA	NA	NA	NA	<170	<227	<241	<211 [<239]	<253	<224
Methyl tert butyl ether (MTBE)	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<760	NA	NA	NA	NA	NA	NA	NA	<650	<770	<810	<710 [<790]	<830	<740
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<760	NA	NA	NA	NA	NA	NA	NA	<650	<770	<810	<710 [<790]	<830	<740
1,2,4-Trichlorobenzene	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
1,2,4-Trimethylbenzene	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<73 [<77]	<77	<81	<71 [<79]	<83	<74
1,3,5-Trimethylbenzene	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<73 [<77]	<77	<81	<71 [<79]	<83	<74
1,2-Dichloropropane	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
1,3-Dichlorobenzene	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
Cyclohexane	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
Methyl cyclohexane	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
Dibromochloromethane	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
Isopropyl benzene	ug/kg	<76	NA	NA	NA	NA	NA	NA	NA	<70	<77	<81	<71 [<79]	<83	<74
Naphthalene	ug/kg	550	NA	NA	NA	NA	NA	NA	NA	<73 [<77]	<77	<81	<71 [<79]	<83	<74

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A18-CJ150 1 - 2 05/15/12	SB-A18-CJ153 9 - 10 09/12/12	SB-A18-CJ153 21 - 22 09/12/12	SB-A18-CJ153 29 - 30 09/12/12	SB-A18-CJ178 1 - 2 11/08/12	SB-A18-CJ178 11 - 12 11/08/12	SB-A18-CJ178 20 - 21 11/08/12	SB-A18-CJ178 29 - 30 11/08/12	SB-A18-CQ146 0.5 - 1 05/15/12	SB-A18-CQ146 20 - 21 05/15/12	SB-A18-CS144 1 - 2 05/14/12	SB-A18-CS144 12 - 13 05/14/12	SB-A18-CS144 20 - 21 05/14/12	SB-A18-CS148 1 - 2 05/14/12
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<1,000 J	<100 J [<100 J]	<100 J	<100 J	<100	<100	<100	<100	<200 J [<70]	<40	<40 J	<40 J [<40 J]	<40 J	<40
2,4,6-Trichlorophenol	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
2,4-Dichlorophenol	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
2,4,5-Trichlorophenol	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
2,4-Dimethylphenol	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 J [<40 J]	<40 J	<40
2,4-Dinitrophenol	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
2,4-Dinitrotoluene	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
2,6-Dinitrotoluene	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
2-Chloronaphthalene	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
2-Chlorophenol	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
2-Methylnaphthalene	ug/kg	3,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
2-Methylphenol	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
2-Nitroaniline	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
2-Nitrophenol	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
3&4-Methylphenol	ug/kg	<3,000 J	<200 J [<200 J]	<200 J	<200	<200	<200	<200	<200	<400 J [<100]	<80	<70	<70 [<70]	<70 J	<70
3,3'-Dichlorobenzidine	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
Naphthalene	ug/kg	2,000 J ^b	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
3-Nitroaniline	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
4-Bromophenyl phenyl ether	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
4-Chloro-3-methylphenol	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
4-Chloroaniline	ug/kg	<1,000 J	<100 J [<100 J]	<100 J	<100 J	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
4-Chlorophenyl phenyl ether	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
4-Nitroaniline	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
4-Nitrophenol	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
Anthracene	ug/kg	18,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	500 J [<70 J]	<40	<40	<40 [<40]	<40 J	<40
Acenaphthene	ug/kg	9,000 J ^b	<100 [<100]	<100	<100	<100	<100	<100	<100	200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
Acenaphthylene	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
Acetophenone	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40 J	<40 J [<40 J]	<40 J	<40
Atrazine	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
Benzaldehyde	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
Benzo(a)anthracene	ug/kg	36,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	2,300 J [300 J]	<40	<40	<40 [<40]	80 J	110
Benzo(a)pyrene	ug/kg	29,000 J ^f	<100 [<100]	<100	<100	<100	<100	<100	<100	2,100 J [270 J]	<40	<40	<40 [<40]	100 J	100
Benzo(b)fluoranthene	ug/kg	55,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	4,200 J [520 J]	<40	<40	<40 [<40]	200 J	210 J
Benzo(g,h,i)perylene	ug/kg	11,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	1,000 J [180 J]	<40	<40	<40 [<40]	50 J	60
Benzo(k)fluoranthene	ug/kg	58,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	4,400 J [550 J]	<40	<40	<40 [<40]	210 J	220 J
Biphenyl (1,1-Biphenyl)	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
bis(2-Chloroethoxy)methane	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40 J	<40 J [<40 J]	<40 J	<40
bis(2-Chloroethyl)ether	ug/kg	<1,000 J	<100 J [<100 J]	<100 J	<100 J	<100	<100	<100	<100	<200 J [<70]	<40	<40 J	<40 J [<40 J]	<40 J	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<3,000 J	<200 [<200]	<200	<200	<200	<200	<200	<200	<400 J [<100 B]	<80	<70 J	<70 J [<70 J]	<70 J	<70
Butyl benzylphthalate (BBP)	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
Caprolactam	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
Carbazole	ug/kg	8,000 J ^b	<100 [<100]	<100	<100	<100	<100	<100	<100	400 J [<70 J]	<40	<40	<40 [<40]	<40 J	<40
Chrysene	ug/kg	37,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	2,700 J [360 J]	<40	<40	<40 [<40]	110 J	130
Dibenz(a,h)anthracene	ug/kg	3,000 J	<200 [<200]	<200	<200	<200	<200	<200	<200	<400 J [<100]	<80	<70	<70 [<70]	<70 J	<70
Dibenzofuran	ug/kg	6,000 J ^b	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
Diethyl phthalate	ug/kg	<3,000 J	<200 [<200]	<200	<200	<200	<200	<200	<200	<400 J [<100]	<80	<70	<70 [<70]	<70 J	<70
Dimethyl phthalate	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [200]	<200 B	<40 B	<50 B [<170 B]	<40 BJ	<130 B
Di-n-butylphthalate (DBP)	ug/kg	<3,000 J	<200 [<200]	<200	<200	<200	<200	<200	<200	<400 J [<100]	<80	<70	<70 [<70]	<70 J	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<3,000 J	<200 [<200]	<200	<200	<200	<200	<200	<200	<400 J [<100]	<80	<70	<70 [<70]	<70 J	<70
Fluoranthene	ug/kg	89,000 J ^b	<100 [<100]	<100	<100	<100	<100	<100	<100	6,000 J [790] ^b	<40	<40	<40 [<40]	80 J	280
Fluorene	ug/kg	10,000 J ^b	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
Hexachlorobenzene	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
Hexachlorobutadiene	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
Hexachlorocyclopentadiene	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
Hexachloroethane	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
Indeno(1,2,3-cd)pyrene	ug/kg	11,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	1,000 J [160]	<40	<40	<40 [<40]	50 J	50
Isophorone	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40 J	<40 J [<40 J]	<40 J	<40
Nitrobenzene	ug/kg	<1,000 J	<100 J [<100 J]	<100 J	<100 J	<100	<100	<100	<100	<200 J [<70]	<40	<40 J	<40 J [<40 J]	<40 J	<40
N-Nitrosodi-n-propylamine	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
N-Nitrosodiphenylamine	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
Pentachlorophenol	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
Phenanthrene	ug/kg	71,000 J ^{ab}	<100 [<100]	<100	<100	<100	<100	<100	<100	2,700 J [330] ^b	<40	<40	<40 [<40]	<40 J	120
Phenol	ug/kg	<1,000 J	<100 [<100]	<100	<100	<100	<100	<100	<100	<200 J [<70]	<40	<40	<40 [<40]	<40 J	<40
Pyrene															

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	SB-A18-CJ150 1 - 2 05/15/12	SB-A18-CJ153 9 - 10 09/12/12	SB-A18-CJ153 21 - 22 09/12/12	SB-A18-CJ153 29 - 30 09/12/12	SB-A18-CJ178 1 - 2 11/08/12	SB-A18-CJ178 11 - 12 11/08/12	SB-A18-CJ178 20 - 21 11/08/12	SB-A18-CJ178 29 - 30 11/08/12	SB-A18-CQ146 0.5 - 1 05/15/12	SB-A18-CQ146 20 - 21 05/15/12	SB-A18-CS144 1 - 2 05/14/12	SB-A18-CS144 12 - 13 05/14/12	SB-A18-CS144 20 - 21 05/14/12	SB-A18-CS148 1 - 2 05/14/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	<0.20	NA	NA	NA	NA	NA	NA	NA	<0.20 [<0.2]	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.20
Arsenic	mg/kg	2.69	NA	NA	NA	NA	NA	NA	NA	0.96 [0.86]	2.14	1.19	1.46 [1.36]	0.74	0.96
Barium	mg/kg	44.2	NA	NA	NA	NA	NA	NA	NA	33.9 [30.9]	46.1	29.1	15.0 [14.3]	16.8	21.0
Beryllium	mg/kg	0.20	NA	NA	NA	NA	NA	NA	NA	<0.20 [<0.2]	0.33	<0.20	<0.20 [<0.2]	<0.20	<0.20
Boron	mg/kg	10.8 ^a	NA	NA	NA	5.2	<4.4	5.8	<4.4	<4.0 [<4]	4.62	<4.0	<4.0 [<4]	<4.0	<4.0
Cadmium	mg/kg	0.40	NA	NA	NA	NA	NA	NA	NA	<0.10 [<0.1]	0.13	<0.10	<0.10 [<0.1]	<0.10	<0.10
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	13.7	NA	NA	NA	14.7	8.98	40.5 ⁱ	3.22	5.00 [4.86]	10.8	2.88	2.41 [2.28]	2.00	3.83
Cobalt	mg/kg	2.75	NA	NA	NA	NA	NA	NA	NA	4.72 [2.51]	6.71	3.61	2.18 [2.19]	1.92	69.2 ^{abi}
Copper	mg/kg	20.2	NA	NA	NA	13.4	9.80	24.6	6.26	261 [295] ^{bi}	14.7	4.60	7.11 [6.46]	2.71	32.7 ⁱ
Lead	mg/kg	43.6 ⁱ	NA	NA	NA	NA	NA	NA	NA	4.19 [3.99]	7.23	3.51	3.46 [3.28]	2.06	4.08
Manganese	mg/kg	238	NA	NA	NA	316	266	227	101	259 [251]	378	262	213 [215]	216	226
Mercury	mg/kg	0.0333	NA	NA	NA	NA	NA	NA	NA	0.0112 [0.0128]	0.0141	0.0106	0.0082 [0.0094]	0.0127	0.0058
Nickel	mg/kg	13.8	NA	NA	NA	NA	NA	NA	NA	51.5 [43] ⁱ	19.2	8.82	7.71 [7.59]	5.94	8.94
Selenium	mg/kg	0.32	NA	NA	NA	NA	NA	NA	NA	0.28 [<0.2]	0.24	<0.20	<0.20 [0.28]	<0.20	0.25
Silver	mg/kg	<0.10 J	NA	NA	NA	0.03	<0.02	0.03	<0.02	0.58 J [0.22 J]	<0.10 J	<0.10	<0.10 [<0.1]	<0.10	3.99 ^{bi}
Thallium	mg/kg	<0.20	NA	NA	NA	NA	NA	NA	NA	<0.20 [<0.2]	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.20
Vanadium	mg/kg	11.3	NA	NA	NA	18.1	12.6	14.9	4.51	6.72 [7.04]	14.1	4.97	3.91 [3.68]	2.95	4.69
Zinc	mg/kg	82.7 ⁱ	NA	NA	NA	NA	NA	NA	NA	14.3 [12.1]	37.1	7.06	10.1 [11.7]	6.47	11.9
Miscellaneous															
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	89	91 [91]	86	94	84	89	93	94	87 [89]	86	91	92 [90]	91	91

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A18-CS148 12 - 13 05/15/12	SB-A18-CS148 20 - 21 05/15/12	SB-A18-CU146 1 - 2 05/14/12	SB-A18-CU146 12 - 13 05/14/12	SB-A18-CU146 20 - 21 05/14/12	SB-A19-HG150 1 - 2 06/06/12	SB-A19-HG150 6 - 7 06/06/12	SB-A19-HG150 12.5 - 13.5 06/06/12	SB-A19-HG150 14 - 15 06/06/12	SB-A19-HJ144 4 - 5 09/18/12	SB-A19-HJ144 7 - 8 09/18/12	SB-A19-HJ144 19 - 20 09/18/12	SB-A19-HJ148 1 - 2 06/06/12	SB-A19-HJ148 8 - 9 06/06/12
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
1,2-Dichlorobenzene	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
1,4-Dichlorobenzene	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
2-Hexanone	ug/kg	<780	<800	<750	<760	<670	NA	NA	NA	NA	<630	<670 [<600]	<560	NA	NA
Acetone	ug/kg	<4,900 BJ	<3,200 BJ	<2,100 BJ	<7,900 BJ	<3,000 BJ	NA	NA	NA	NA	<630	<670 [<600]	<560	NA	NA
Bromodichloromethane	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
Bromoform	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
Bromomethane (Methyl bromide)	ug/kg	NA	NA	<60	NA	NA	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
Carbon disulfide	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
Carbon tetrachloride	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
Chlorobenzene	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
Chloroform (Trichloromethane)	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
Chloromethane (Methyl chloride)	ug/kg	<190	<200	<190	<190	<170	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
cis-1,3-Dichloropropene	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	<60	NA	NA	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
Methyl acetate	ug/kg	NA	NA	<650	NA	NA	NA	NA	NA	NA	<630	<670 [<600]	<560	NA	NA
Methylene chloride	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
Styrene	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
trans-1,3-Dichloropropene	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	<60	NA	NA	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<78 J	<80 J	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
1,4-Dioxane	ug/kg	<780	<800	<750	<760	<670	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
1,1,2,2-Tetrachloroethane	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
1,1,2-Trichloroethane	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
1,1-Dichloroethane	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
1,1-Dichloroethene	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
1,2-Dichloroethane	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
cis-1,2-Dichloroethene	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
trans-1,2-Dichloroethene	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
Trichloroethene	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
Tetrachloroethene	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
Vinyl chloride	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
Chloroethane	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
Benzene	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
Ethylbenzene	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
Toluene	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
o-Xylene	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
m&p-Xylene	ug/kg	<160	<160	<150	<150	<130	NA	NA	NA	NA	<100	<100 [<100]	<100	NA	NA
Xylene (total)	ug/kg	<238	<240	<225	<226	<197	NA	NA	NA	NA	<160	<170 [<160]	<160	NA	NA
Methyl tert butyl ether (MTBE)	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<780	<800	<750	<760	<670	NA	NA	NA	NA	<630	<670 [<600]	<560	NA	NA
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<780	<800	<750	<760	<670	NA	NA	NA	NA	<630	<670 [<600]	<560	NA	NA
1,2,4-Trichlorobenzene	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
1,2,4-Trimethylbenzene	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
1,3-Dichlorobenzene	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
Cyclohexane	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
Methyl cyclohexane	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
Dibromochloromethane	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
Isopropyl benzene	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	<60	<70 [<60]	<60	NA	NA
Naphthalene	ug/kg	<78	<80	<75	<76	<67	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A18-CS148 12 - 13 05/15/12	SB-A18-CS148 20 - 21 05/15/12	SB-A18-CU146 1 - 2 05/14/12	SB-A18-CU146 12 - 13 05/14/12	SB-A18-CU146 20 - 21 05/14/12	SB-A19-HG150 1 - 2 06/06/12	SB-A19-HG150 6 - 7 06/06/12	SB-A19-HG150 12.5 - 13.5 06/06/12	SB-A19-HG150 14 - 15 06/06/12	SB-A19-HJ144 4 - 5 09/18/12	SB-A19-HJ144 7 - 8 09/18/12	SB-A19-HJ144 19 - 20 09/18/12	SB-A19-HJ148 1 - 2 06/06/12	SB-A19-HJ148 8 - 9 06/06/12
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<200 J	<100 J [<100 J]	<100 J	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40	<40	<40 J	<40 J	<40 J	<40	<40	<40	<40	NA	NA	NA	<100	<40
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
2,4-Dichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
2,4-Dimethylphenol	ug/kg	<40	<40	<40 J	<40 J	<40 J	<40	<40	<40	<40	NA	NA	NA	<100	<40
2,4-Dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
2-Chloronaphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
2-Chlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
2-Methylnaphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200 J	<100 J [<100 J]	<100 J	<100	<40
2-Methylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
2-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
2-Nitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
3&4-Methylphenol	ug/kg	<70	<80	<70	<70	<70	<70	<70	<70	<70	NA	NA	NA	<300	<70
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
Naphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200 J	<100 J [<100 J]	<100 J	<100	<40
3-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
4-Chloroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
4-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
4-Nitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
Anthracene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200 J	<100 J [<100 J]	<100 J	<100	<40
Acenaphthene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200 J	<100 J [<100 J]	<100 J	<100	<40
Acenaphthylene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200 J	<100 J [<100 J]	<100 J	<100	<40
Acetophenone	ug/kg	<40	<40	<40 J	<40 J	<40 J	<40	<40	<40	<40	NA	NA	NA	<100	<40
Atrazine	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
Benzaldehyde	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
Benzo(a)anthracene	ug/kg	<40	<40	110	<40	<40	150 J	<40	<40	<40	<200 J	<100 J [<100 J]	<100 J	500	<40
Benzo(a)pyrene	ug/kg	<40	<40	100	<40	<40	140	<40	<40	<40	<200 J	<100 J [<100 J]	<100 J	500	<40
Benzo(b)fluoranthene	ug/kg	<40	<40	200 J	<40	<40	260 J	<40	<40	<40	<200 J	<100 J [<100 J]	<100 J	1,100 J	<40
Benzo(g,h,i)perylene	ug/kg	<40	<40	60	<40	<40	130 J	<40	<40	<40	<200 J	<100 J [<100 J]	<100 J	300 J	<40
Benzo(k)fluoranthene	ug/kg	<40	<40	200 J	<40	<40	270 J	<40	<40	<40	<200 J	<100 J [<100 J]	<100 J	1,000 J	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<40	<40 J	<40 J	<40	<40	<40	<40	NA	NA	NA	<100	<40
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<40 J	<40 J	<40 J	<40	<40	<40	<40	NA	NA	NA	<100	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70	<80	<70 J	<70 J	<70 J	<70	<70	<70	<70	NA	NA	NA	<300	<70
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<40 J	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
Caprolactam	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
Carbazole	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
Chrysene	ug/kg	<40	<40	130	<40	<40	160	<40	<40	<40	<200 J	<100 J [<100 J]	<100 J	500	<40
Dibenz(a,h)anthracene	ug/kg	<70	<80	<70	<70	<70	<70	<70	<70	<70	<200 J	<100 J [<100 J]	<100 J	<300	<70
Dibenzofuran	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
Diethyl phthalate	ug/kg	<70	<80	<70	<70	<70	<70	<70	<70	<70	NA	NA	NA	<300	<70
Dimethyl phthalate	ug/kg	<130 B	<130 B	<60 B	<60 B	<250 B	<80 B	<100 B	<170 B	<70 B	NA	NA	NA	<200 B	<110 B
Di-n-butylphthalate (DBP)	ug/kg	<70	<80	<70	<70	<70	<70	<70	<70	<70	NA	NA	NA	<300	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<70	<80	<70	<70	<70	<70	<70	<70	<70	NA	NA	NA	<300	<70
Fluoranthene	ug/kg	<40	<40	290	<40	<40	320	<40	<40	<40	<200 J	<100 J [<100 J]	<100 J	1,200	<40
Fluorene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200 J	<100 J [<100 J]	<100 J	<100	<40
Hexachlorobenzene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
Hexachlorobutadiene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
Hexachlorocyclopentadiene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
Hexachloroethane	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	50	<40	<40	120 J	<40	<40	<40	<200 J	<100 J [<100 J]	<100 J	300 J	<40
Isophorone	ug/kg	<40	<40	<40 J	<40 J	<40 J	<40	<40	<40	<40	NA	NA	NA	<100	<40
Nitrobenzene	ug/kg	<40	<40	<40 J	<40 J	<40 J	<40	<40	<40	<40	NA	NA	NA	<100	<40
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
N-Nitrosodiphenylamine	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
Pentachlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
Phenanthrene	ug/kg	<40	<40	150	<40	<40	170	<40	<40	<40	<200 J	<100 J [<100 J]	<100 J	700	<40
Phenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	NA	<100	<40
Pyrene	ug/kg	<40	<40	240	<40	<40	280	<40	<40	<40	<200 J	<100 J [<100 J]	<100 J	1,000	<40

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A18-CS148 12 - 13 05/15/12	SB-A18-CS148 20 - 21 05/15/12	SB-A18-CU146 1 - 2 05/14/12	SB-A18-CU146 12 - 13 05/14/12	SB-A18-CU146 20 - 21 05/14/12	SB-A19-HG150 1 - 2 06/06/12	SB-A19-HG150 6 - 7 06/06/12	SB-A19-HG150 12.5 - 13.5 06/06/12	SB-A19-HG150 14 - 15 06/06/12	SB-A19-HJ144 4 - 5 09/18/12	SB-A19-HJ144 7 - 8 09/18/12	SB-A19-HJ144 19 - 20 09/18/12	SB-A19-HJ148 1 - 2 06/06/12	SB-A19-HJ148 8 - 9 06/06/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	<0.21	<0.21	<0.23 [<0.23]	<0.23	<0.23	<0.21
Arsenic	mg/kg	1.51	1.61	1.20	1.60	1.00	1.48	0.99	0.23	0.76	1.83	0.44 [0.4]	1.37	41.2 ^{abfi}	0.61
Barium	mg/kg	18.9	28.5	23.6	17.0	11.0	10.8	15.5	10.8	25.9	19.4	28.6 [27.8]	12.8	278 ⁱ	12.1
Beryllium	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	<0.21	NA	NA	NA	3.01	<0.21
Boron	mg/kg	<4.0	<4.0	<4.0	<4.0	<4.0	<4.2	<4.0	<4.0	<4.2	<4.2	<4.6 [<4.5]	<4.5	62.0 ^a	<4.2
Cadmium	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.13	<0.10	<0.10	<0.10	<0.11 [<0.11]	<0.11	0.32	0.11
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	4.78	5.92	3.34	2.28	1.42	1.47	2.42	2.15	5.41	2.06	6.10 [5.61]	2.84	22.8 ⁱ	0.95
Cobalt	mg/kg	3.54	3.67	6.28	2.28	1.37	1.41	2.00	1.30	3.73	2.59	3.08 [3.03]	2.21	6.88 ^{abi}	0.43
Copper	mg/kg	14.3	8.03	51.5 ⁱ	7.20	6.05	4.34	3.52	4.88	10.2	5.31	11.0 [10.2]	7.67	36.6 ⁱ	2.01
Lead	mg/kg	5.02	4.04	3.41	3.58	2.52	2.40	3.43	2.56	4.51	4.37	3.42 [3.49]	3.62	13.3	4.96
Manganese	mg/kg	238	238	278	230	167	152	173	76.1	296	289	54.9 [48.7]	240	105	6.73
Mercury	mg/kg	0.0091	0.0068	0.0105	0.0096	0.0063	0.0066	0.0123	0.0095	0.0093	0.0114	0.0200 [0.0079]	<0.0053	0.0317	0.0106
Nickel	mg/kg	14.4	10.4	23.7 ⁱ	7.65	5.37	4.58	5.95	4.27	11.3	5.04	6.37 [6.11]	5.66	15.4	0.88
Selenium	mg/kg	<0.20	0.22	0.20	0.21	<0.20	<0.21	<0.20	<0.20	<0.21	<0.10	<0.11 [<0.11]	0.15	4.39 ^{abi}	<0.21
Silver	mg/kg	<0.10 J	<0.10 J	0.54	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.03	0.04 [0.02]	0.02	<0.11	<0.10
Thallium	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	<0.21	NA	NA	NA	0.82	<0.21
Vanadium	mg/kg	7.22	7.16	3.54	3.86	2.09	2.34	3.97	3.87	7.58	3.47	7.73 [8.33]	5.10	67.1	1.63
Zinc	mg/kg	14.4	18.1	5.92	14.3	7.55	9.84	8.31	5.34	17.1	8.97	12.4 [11.8]	13.0	26.2	4.27
Miscellaneous															
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	91	87	89	90	91	89	91	91	89	90	89 [89]	92	76	90

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	SB-A19-HJ148 13 - 14 06/06/12	SB-A19-HJ148 14 - 15 06/06/12	SB-A19-HJ153 1 - 2 06/06/12	SB-A19-HJ153 6 - 7 06/06/12	SB-A19-HJ153 11 - 12 06/06/12	SB-A19-HJ153 12 - 13 06/06/12	SB-A19-HM150 1 - 2 06/06/12	SB-A19-HM150 8.5 - 9.5 06/06/12	SB-A19-HM150 13 - 14 06/06/12	SB-A19-HM150 18 - 19 06/06/12	SB-A19-HM150 24 - 25 06/06/12	SB-A19-HQ150 2 - 3 09/18/12	SB-A19-HQ150 9.5 - 10.5 09/18/12	SB-A20-EH24 1 - 2 09/19/12
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
1,2-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
1,4-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
2-Hexanone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<620	<620	NA
Acetone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<620	<620	NA
Bromodichloromethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
Bromoform	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
Carbon disulfide	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
Carbon tetrachloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
Chlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
Chloroform (Trichloromethane)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
Chloromethane (Methyl chloride)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
cis-1,3-Dichloropropene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<620	<620	NA
Methylene chloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
Styrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
trans-1,3-Dichloropropene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
1,1,2,2-Tetrachloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
1,1,2-Trichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
1,1-Dichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
1,1-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
1,2-Dichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
cis-1,2-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
trans-1,2-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
Trichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
Tetrachloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
Vinyl chloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
Chloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
Benzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
Ethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
Toluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
o-Xylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
m&p-Xylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100	<100	NA
Xylene (total)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<160	<160	NA
Methyl tert butyl ether (MTBE)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<620	<620	NA
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<620	<620	NA
1,2,4-Trichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
1,3-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
Cyclohexane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
Methyl cyclohexane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
Dibromochloromethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
Isopropyl benzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	NA
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A19-HJ148 13 - 14 06/06/12	SB-A19-HJ148 14 - 15 06/06/12	SB-A19-HJ153 1 - 2 06/06/12	SB-A19-HJ153 6 - 7 06/06/12	SB-A19-HJ153 11 - 12 06/06/12	SB-A19-HJ153 12 - 13 06/06/12	SB-A19-HM150 1 - 2 06/06/12	SB-A19-HM150 8.5 - 9.5 06/06/12	SB-A19-HM150 13 - 14 06/06/12	SB-A19-HM150 18 - 19 06/06/12	SB-A19-HM150 24 - 25 06/06/12	SB-A19-HQ150 2 - 3 09/18/12	SB-A19-HQ150 9.5 - 10.5 09/18/12	SB-A20-EH24 1 - 2 09/19/12
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100 J	<100 J	<100
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
2,4,6-Trichlorophenol	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
2,4-Dichlorophenol	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
2,4,5-Trichlorophenol	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
2,4-Dimethylphenol	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
2,4-Dinitrophenol	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
2,4-Dinitrotoluene	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
2,6-Dinitrotoluene	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
2-Chloronaphthalene	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
2-Chlorophenol	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
2-Methylnaphthalene	ug/kg	<40	<40	<30 [<30]	<40	<40	60 J	<70	<2,000 J	<40	<40	<40	<100 J	<100 J	<100
2-Methylphenol	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
2-Nitroaniline	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
2-Nitrophenol	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
3&4-Methylphenol	ug/kg	<80	<70	<70 [<70]	<70	<70	<70	<100	<4,000 J	<80	<80	<70	NA	NA	NA
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
Naphthalene	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	<100 J	<100 J	<100
3-Nitroaniline	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
4-Chloro-3-methylphenol	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
4-Chloroaniline	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
4-Nitroaniline	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
4-Nitrophenol	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
Anthracene	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	100	<2,000 J	<40	<40	<40	<100 J	<100 J	<100
Acenaphthene	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	<100 J	<100 J	<100
Acenaphthylene	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	<100 J	<100 J	<100
Acetophenone	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
Atrazine	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
Benzaldehyde	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
Benzo(a)anthracene	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	400	<2,000 J	<40	<40	<40	<100 J	<100 J	<100
Benzo(a)pyrene	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	430	<2,000 J	<40	<40	<40	<100 J	<100 J	<100
Benzo(b)fluoranthene	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	800 J	<2,000 J	<40	<40	<40	<100 J	<100 J	<100
Benzo(g,h,i)perylene	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	230 J	<2,000 J	<40	<40	<40	<100 J	<100 J	<100
Benzo(k)fluoranthene	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	780 J	<2,000 J	<40	<40	<40	<100 J	<100 J	<100
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<80	<70	<70 [<70]	<70	<70	<70	<100	<4,000 J	<80	<80	<70	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	32,000 J	<40	<40	<40	NA	NA	NA
Caprolactam	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
Carbazole	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	80	<2,000 J	<40	<40	<40	NA	NA	NA
Chrysene	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	430	<2,000 J	<40	<40	<40	<100 J	<100 J	<100
Dibenz(a,h)anthracene	ug/kg	<80	<70	<70 [<70]	<70	<70	<70	<100	<4,000 J	<80	<80	<70	<100 J	<100 J	<100
Dibenzofuran	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
Diethyl phthalate	ug/kg	<80	<70	<70 [<70]	<70	<70	<70	<100	<4,000 J	<80	<80	<70	NA	NA	NA
Dimethyl phthalate	ug/kg	<100 B	<100 B	<70 B [<90 B]	<170 B	<90 B	<160 B	<100 B	<2,000 J	<170 B	<220 B	<80 B	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/kg	<80	<70	<70 [<70]	<70	<70	<70	<100	<4,000 J	<80	<80	<70	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/kg	<80	<70	<70 [<70]	<70	<70	<70	<100	<4,000 J	<80	<80	<70	NA	NA	NA
Fluoranthene	ug/kg	<40	<40	40 [<30]	<40	50	<40	950	<2,000 J	<40	<40	<40	<100 J	<100 J	<100
Fluorene	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	5,000 J	<40	<40	<40	<100 J	<100 J	<100
Hexachlorobenzene	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
Hexachlorobutadiene	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
Hexachlorocyclopentadiene	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
Hexachloroethane	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	210 J	<2,000 J	<40	<40	<40	<100 J	<100 J	<100
Isophorone	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
Nitrobenzene	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
N-Nitrosodiphenylamine	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
Pentachlorophenol	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
Phenanthrene	ug/kg	<40	<40	<30 [<30]	<40	<40	80 J	600	5,000 J ^b	<40	<40	<40	<100 J	<100 J	<100
Phenol	ug/kg	<40	<40	<30 [<30]	<40	<40	<40	<70	<2,000 J	<40	<40	<40	NA	NA	NA
Pyrene	ug/kg	<40	<40	<30 [<30]	<40	50	<40	810	<2,000 J	<40	<40	<40	<100 J	<100 J	<100

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	SB-A19-HJ148 13 - 14 06/06/12	SB-A19-HJ148 14 - 15 06/06/12	SB-A19-HJ153 1 - 2 06/06/12	SB-A19-HJ153 6 - 7 06/06/12	SB-A19-HJ153 11 - 12 06/06/12	SB-A19-HJ153 12 - 13 06/06/12	SB-A19-HM150 1 - 2 06/06/12	SB-A19-HM150 8.5 - 9.5 06/06/12	SB-A19-HM150 13 - 14 06/06/12	SB-A19-HM150 18 - 19 06/06/12	SB-A19-HM150 24 - 25 06/06/12	SB-A19-HQ150 2 - 3 09/18/12	SB-A19-HQ150 9.5 - 10.5 09/18/12	SB-A20-EH24 1 - 2 09/19/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	<0.21	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.21	<0.20	<0.21	<0.22	<0.20
Arsenic	mg/kg	<0.10	0.88	0.58 [0.62]	0.61	1.17	1.43	3.58	0.85	0.47	1.00	1.08	0.98	1.30	1.25
Barium	mg/kg	13.0	23.6	7.58 [7.34]	5.70	5.54	25.5	22.4	10.1	16.4	12.9	15.7	8.61	15.5	27.0
Beryllium	mg/kg	<0.21	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.21	<0.20	NA	NA	NA
Boron	mg/kg	<4.2	<4.0	<4.0 [<4]	<4.0	<4.0	<4.0	4.22	<4.0	<4.2	<4.2	<4.1	<4.3	<4.4	<4.0
Cadmium	mg/kg	<0.10	<0.10	<0.10 [<0.1]	<0.10	<0.10	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11	<0.11	0.11
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	4.82	4.68	1.10 [0.96]	0.85	3.19	4.64	5.13	1.69	1.34	1.59	1.99	1.84	2.62	3.48
Cobalt	mg/kg	1.46	3.68	1.44 [1.84]	1.37	1.67	2.87	2.45	1.80	0.75	2.14	1.95	1.33	1.74	3.33
Copper	mg/kg	9.54	10.9	1.66 [1.65]	1.92	2.21	7.47	6.52	5.05	4.40	5.01	6.59	3.57	7.48	5.84
Lead	mg/kg	2.75	4.82	2.13 [1.88]	1.46	1.41	4.01	2.94	3.55	3.13	3.18	3.40	2.20	3.54	4.02
Manganese	mg/kg	36.9	279	123 [108]	121	99.4	181	166	189	77.2	152	184	116	256	249
Mercury	mg/kg	0.0085	0.0100	<0.0052 [<0.0053]	<0.0053	<0.0053	0.0158	0.0060	0.0100	0.0081	0.0101	<0.0056	0.0086	0.0085	0.0142
Nickel	mg/kg	4.32	10.5	3.86 [3.52]	4.23	4.08	8.17	5.91	3.34	1.49	3.64	6.29	2.39	3.26	10.3
Selenium	mg/kg	<0.21	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.21	<0.20	<0.11	<0.11	0.21
Silver	mg/kg	<0.10	<0.10	<0.10 [<0.1]	<0.10	<0.10	<0.10	0.14	<0.10	<0.10	<0.10	<0.10	<0.02	<0.02	<0.10
Thallium	mg/kg	<0.21	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.21	<0.20	NA	NA	NA
Vanadium	mg/kg	3.57	7.54	2.05 [1.63]	1.28	1.66	6.54	5.67	3.43	4.34	3.67	3.60	3.14	5.31	4.92
Zinc	mg/kg	8.63	15.3	2.76 [3.31]	3.32	3.89	12.0	10.6	6.57	2.84	5.36	10.2	5.79	12.7	10.8
Miscellaneous															
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	86	90	96 [95]	94	93	91	90	94	86	82	90	90	91	94

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A20-EH24 8 - 9 09/19/12	SB-A20-EH24 19 - 20 09/19/12	SB-A20-EL18 1 - 2 09/19/12	SB-A20-EL18 9 - 10 09/19/12	SB-A20-EL18 19 - 20 09/19/12	SB-A20-EL30 1 - 2 09/19/12	SB-A20-EL30 10 - 11 09/19/12	SB-A20-EL30 19 - 20 09/19/12	SB-A20-EM25 1 - 2 06/07/12	SB-A20-EM25 8 - 9 06/07/12	SB-A20-EM25 18 - 19 06/07/12	SB-A20-EN25 1 - 2 06/07/12	SB-A20-EN25 8 - 9 06/07/12	SB-A20-EQ20 1 - 2 06/07/12	SB-A20-EQ20 6 - 7 06/07/12
Volatile Organics																
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform (Trichloromethane)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane (Methyl chloride)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene (total)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert butyl ether (MTBE)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl benzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
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Semivolatile Organics																
1-Methylnaphthalene	ug/kg	<100	<100	<100	<100	<100	<200 [<200]	<100	<100	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
2,4,6-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
2,4-Dichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
2,4,5-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
2,4-Dimethylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
2,4-Dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
2,4-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
2,6-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
2-Chloronaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
2-Chlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
2-Methylnaphthalene	ug/kg	<100	<100	<100	<100	<100	<200 [<200]	<100	<100	<200	<40	<40	<70	<40	<40	<40 [<40]
2-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
2-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
2-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
3&4-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<300	<80	<80	<100	<70	<70	<80 [<80]
3,3'-Dichlorobenzidine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
Naphthalene	ug/kg	<100	<100	<100	<100	<100	<200 [<200]	<100	<100	<200	<40	<40	<70	<40	<40	<40 [<40]
3-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
4-Bromophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
4-Chloro-3-methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
4-Chloroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40 J	<40 J [<40]
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
4-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
4-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
Anthracene	ug/kg	<100	<100	<100	<100	<100	1,100 [700]	<100	<100	600	<40	<40	<70	<40	<40	<40 [<40]
Acenaphthene	ug/kg	<100	<100	<100	<100	<100	500 [300]	<100	<100	300	<40	<40	<70	<40	<40	<40 [<40]
Acenaphthylene	ug/kg	<100	<100	<100	<100	<100	<200 [<200]	<100	<100	<200	<40	<40	<70	<40	<40	<40 [<40]
Acetophenone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
Atrazine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
Benzaldehyde	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
Benzo(a)anthracene	ug/kg	<100	<100	<100	<100	<100	2,000 [1,700]	<100	<100	3,400	<40	<40	230	<40	<40	120 [<40]
Benzo(a)pyrene	ug/kg	<100	<100	<100	<100	<100	1,800 [1,600]	<100	<100	3,300	<40	<40	200	<40	<40	150 J [<40 J]
Benzo(b)fluoranthene	ug/kg	<100	<100	<100	<100	<100	2,800 J [2,300 J]	<100	<100	5,900 J	<40	<40	330 J	<40	<40	230 J [<40 J]
Benzo(g,h,i)perylene	ug/kg	<100	<100	<100	<100	<100	900 [800]	<100	<100	2,000	<40	<40	180	<40	<40	120 J [<40]
Benzo(k)fluoranthene	ug/kg	<100	<100	<100	<100	<100	3,000 J [2,600 J]	<100	<100	6,000 J	<40	<40	340 J	<40	<40	230 J [<40 J]
Biphenyl (1,1-Biphenyl)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
bis(2-Chloroethoxy)methane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200 J	<40 J	<40 J	<70 J	<40 J	<40	<40 [<40 J]
bis(2-Chloroethyl)ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<300	<80	<80	<100	<70	<70	<80 [<80]
Butyl benzylphthalate (BBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
Caprolactam	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	400	<40	<40	<70	<40	<40	<40 [<40]
Chrysene	ug/kg	<100	<100	<100	<100	<100	1,900 [1,600]	<100	<100	3,500	<40	<40	230	<40	<40	130 J [<40 J]
Dibenz(a,h)anthracene	ug/kg	<100	<100	<100	<100	<100	<200 [<200]	<100	<100	600	<80	<80	<100	<70	<70	<80 [<80]
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
Diethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<300	<80	<80	<100	<70	<70	<80 [<80]
Dimethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<150 B	<70	<40	<120 B	<190 B [<40]
Di-n-butylphthalate (DBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<300	<80	<80	<100	<70	<70	<80 [<80]
Di-n-octyl phthalate (DnOP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<300	<80	<80	<100	<70	<70	<80 [<80]
Fluoranthene	ug/kg	<100	<100	<100	<100	<100	4,800 [3,800]	<100	<100	7,600 ^b	<40	<40	470	<40	<40	180 J [<40 J]
Fluorene	ug/kg	<100	<100	<100	<100	<100	400 [200]	<100	<100	300	<40	<40	<70	<40	<40	<40 [<40]
Hexachlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
Hexachlorobutadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
Hexachlorocyclopentadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
Hexachloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
Indeno(1,2,3-cd)pyrene	ug/kg	<100	<100	<100	<100	<100	800 [700]	<100	<100	1,900	<40	<40	160	<40	<40	120 J [<40]
Isophorone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
Nitrobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200 J	<40 J	<40 J	<70 J	<40 J	<40	<40 [<40 J]
N-Nitrosodi-n-propylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
N-Nitrosodiphenylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
Pentachlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
Phenanthrene	ug/kg	<100	<100	<100	<100	<100	3,900 [2,600] ^b	<100	<100	2,900 ^b	<40	<40	250	<40	<40	80 [<40]
Phenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	<200	<40	<40	<70	<40	<40	<40 [<40]
Pyrene	ug/kg	<100	<100	<100	<100	<100	3,900 [3,200]	<100	<100	6,700	<40	<40	410	<40	<40	160 J [<40 J]

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PCBs																
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																
Antimony	mg/kg	<0.20	<0.20	NA	NA	NA	NA	NA	NA	<0.21	<0.21	<0.21	<0.20	<0.21	<0.21	<0.20 [<0.21]
Arsenic	mg/kg	0.65	0.76	NA	NA	NA	NA	NA	NA	0.72	0.87	0.29	0.89	0.61	1.06	0.76 [0.77]
Barium	mg/kg	19.7	9.37	NA	NA	NA	NA	NA	NA	15.8	52.9	7.31	11.9	31.5	35.5	18.7 [37.8]
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	0.21	0.36	<0.21	<0.20	<0.21	0.28	<0.20 [<0.21]
Boron	mg/kg	<4.0	<4.0	NA	NA	NA	NA	NA	NA	<4.3	<4.3	<4.3	<4.0	<4.2	<4.2	<4.0 [<4.3]
Cadmium	mg/kg	0.12	<0.10	NA	NA	NA	NA	NA	NA	0.32	0.15	<0.10	<0.10	0.22	0.11	<0.10 [<0.1]
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	2.69	2.14	NA	NA	NA	NA	NA	NA	7.04	10.5	1.43	2.42	4.01	6.08	3.13 [3.48]
Cobalt	mg/kg	1.83	1.92	NA	NA	NA	NA	NA	NA	7.38 ^{abi}	5.84	0.66	2.06	2.45	2.89	2.37 [2.11]
Copper	mg/kg	4.36	2.85	NA	NA	NA	NA	NA	NA	11.6	10.2	1.12	3.82	4.47	135 ^{bi}	7.13 [5.9]
Lead	mg/kg	7.04	2.44	NA	NA	NA	NA	NA	NA	13.6	6.35	1.98	2.95	3.42	7.23	4.14 [4.05]
Manganese	mg/kg	96.2	220	NA	NA	NA	NA	NA	NA	171	298	27.9	222	156	244	252 [267]
Mercury	mg/kg	0.0150	0.0065	NA	NA	NA	NA	NA	NA	0.0245	0.0266	<0.006	0.0093	0.0130	0.0318	0.0146 [0.0175]
Nickel	mg/kg	3.78	6.66	NA	NA	NA	NA	NA	NA	7.43	14.1	1.65	6.15	6.52	4.66	5.49 [5.66]
Selenium	mg/kg	<0.20	0.28	NA	NA	NA	NA	NA	NA	<0.21	0.26	<0.21	0.21	0.31	<0.21	<0.20 [<0.21]
Silver	mg/kg	<0.10	<0.10	NA	NA	NA	NA	NA	NA	0.84	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10 [<0.1]
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	<0.21	<0.21	<0.21	<0.20	<0.21	<0.21	<0.20 [<0.21]
Vanadium	mg/kg	5.10	2.29	NA	NA	NA	NA	NA	NA	6.97	12.9	1.98	3.27	5.67	10.1	5.86 [6.15]
Zinc	mg/kg	9.18	14.0	NA	NA	NA	NA	NA	NA	83.9 ⁱ	26.2	6.58	6.66	9.18	9.75	9.70 [9.75]
Miscellaneous																
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	94	92	90	86	88	90 [91]	87	90	84	83	83	95	89	89	87 [87]

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A20-EQ20 16 - 17 06/07/12	SB-A20-EQ29 1 - 2 06/07/12	SB-A20-EQ29 8 - 9 06/07/12	SB-A20-EQ29 15 - 16 06/07/12	SB-A21-GO29 1.5 - 2 06/06/12	SB-A21-GO29 7 - 8 06/07/12	SB-A21-GO29 14 - 15 06/07/12	SB-A21-GQ27 1.5 - 2 06/06/12	SB-A21-GQ27 7 - 8 06/07/12	SB-A21-GQ27 14 - 15 06/07/12	SB-A21-GQ31 1 - 2 06/06/12	SB-A21-GQ31 5 - 6 06/06/12	SB-A21-GQ31 11 - 12 06/06/12	SB-A21-GQ36 1 - 2 09/19/12
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform (Trichloromethane)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane (Methyl chloride)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene (total)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert butyl ether (MTBE)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl benzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A20-EQ20 16 - 17 06/07/12	SB-A20-EQ29 1 - 2 06/07/12	SB-A20-EQ29 8 - 9 06/07/12	SB-A20-EQ29 15 - 16 06/07/12	SB-A21-GO29 1.5 - 2 06/06/12	SB-A21-GO29 7 - 8 06/07/12	SB-A21-GO29 14 - 15 06/07/12	SB-A21-GQ27 1.5 - 2 06/06/12	SB-A21-GQ27 7 - 8 06/07/12	SB-A21-GQ27 14 - 15 06/07/12	SB-A21-GQ31 1 - 2 06/06/12	SB-A21-GQ31 5 - 6 06/06/12	SB-A21-GQ31 11 - 12 06/06/12	SB-A21-GQ36 1 - 2 09/19/12
Units															
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40 J	<40 [<40]	<40	<200	<200	<30	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
2,4,6-Trichlorophenol	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
2,4-Dichlorophenol	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
2,4,5-Trichlorophenol	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
2,4-Dimethylphenol	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
2,4-Dinitrophenol	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40 J	<40 [<40]	<40	<200	<200	<30	NA
2,4-Dinitrotoluene	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
2,6-Dinitrotoluene	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
2-Chloronaphthalene	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
2-Chlorophenol	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
2-Methylnaphthalene	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
2-Methylphenol	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
2-Nitroaniline	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
2-Nitrophenol	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
3&4-Methylphenol	ug/kg	<80	<70	<300	<80 [<70]	<70	<70 [<70]	<70	<70	<80 [<90]	<80	<400	<400	<70	NA
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
Naphthalene	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
3-Nitroaniline	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
4-Chloro-3-methylphenol	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
4-Chloroaniline	ug/kg	<40	<40	<200	<40 [<40]	<40 J	<30 J [<40 J]	<40 J	<40 J	<40 J [<40 J]	<40 J	<200 J	<200 J	<30 J	NA
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
4-Nitroaniline	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
4-Nitrophenol	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
Anthracene	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
Acenaphthene	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
Acenaphthylene	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
Acetophenone	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40 J	<40 [<40]	<40	<200	<200	<30	NA
Atrazine	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
Benzaldehyde	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
Benzo(a)anthracene	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [130]	<40	<40	<40 [<40]	<40	<200	300	<30	NA
Benzo(a)pyrene	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [120]	<40	<40	<40 [<40]	<40	<200	300	<30	NA
Benzo(b)fluoranthene	ug/kg	<40	60 J	<200	<40 [<40]	<40	<30 J [250 J]	<40	<40	<40 [<40]	110 J	<200	700 J	<30	NA
Benzo(g,h,i)perylene	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [110]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
Benzo(k)fluoranthene	ug/kg	<40	60 J	<200	<40 [<40]	<40	<30 J [250 J]	<40	<40	<40 [<40]	110 J	<200	700 J	<30	NA
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
bis(2-Chloroethoxy)methane	ug/kg	<40 J	<40 J	<200 J	<40 J [<40 J]	<40	<30 [<40]	<40	<40 J	<40 [<40]	<40	<200	<200	<30	NA
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<80	<70	<300	<80 [<70]	<70	<70 [<70]	<70	<70	<80 [<90]	80	<400	<400	110	NA
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
Caprolactam	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
Carbazole	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
Chrysene	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [140]	<40	40	<40 [<40]	60	<200	300	<30	NA
Dibenz(a,h)anthracene	ug/kg	<80	<70	<300	<80 [<70]	<70	<70 [<70]	<70	<70	<80 [<90]	<80	<400	<400	<70	NA
Dibenzofuran	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
Diethyl phthalate	ug/kg	<80	<70	<300	<80 [<70]	<70	<70 [<70]	<70	<70	<80 [<90]	<80	<400	<400	<70	NA
Dimethyl phthalate	ug/kg	<40	<40 B	<200	<50 B [<40]	<70 B	<90 B [<240 B]	<40 B	<50 B	<210 B [<230 B]	<120 B	<200	<200	<60 B	NA
Di-n-butylphthalate (DBP)	ug/kg	<80	<70	<300	<80 [<70]	<70	<70 [<70]	<70	<70	<80 [<90]	<80	<400	<400	<70	NA
Di-n-octyl phthalate (DnOP)	ug/kg	<80	<70	<300	<80 [<70]	<70	<70 [<70]	<70	<70	<80 [<90]	<80	<400	<400	<70	NA
Fluoranthene	ug/kg	<40	70	<200	<40 [<40]	40	<30 [70]	<40	50	<40 [<40]	130	<200	600	<30	NA
Fluorene	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
Hexachlorobenzene	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
Hexachlorobutadiene	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
Hexachlorocyclopentadiene	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
Hexachloroethane	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [100]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
Isophorone	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
Nitrobenzene	ug/kg	<40 J	<40 J	<200 J	<40 J [<40 J]	<40	<30 [<40]	<40	<40 J	<40 [<40]	<40	<200	<200	<30	NA
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
N-Nitrosodiphenylamine	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
Pentachlorophenol	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	<40	<200	<200	<30	NA
Phenanthrene	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	60	<200	<200	<30	NA
Phenol	ug/kg	<40	<40	<200	<40 [<40]	<40	<30 [<40]	<40	<40	<40 [<40]	150	<200	<200	<30	NA
Pyrene	ug/kg	<40	60	<200	<40 [<40]	40	<30 [80]	<40	40	<40 [<40]	100	<200	500	<30	NA

TABLE 14
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RACER Plant 3
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PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	<0.21	<0.21	<0.21	<0.21 [<0.21]	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20 [<0.2]	0.83	<0.20	0.78	<0.20	<0.20 [<0.2]
Arsenic	mg/kg	0.69	1.43	1.70	1.06 [1.58]	0.93	0.87 [0.82]	0.88	1.31	3.89 [3.06]	16.2 ^{abi}	1.46	29.5 ^{abi}	1.17	0.97 [0.92]
Barium	mg/kg	22.4	13.2	46.3	28.2 [31.6]	9.40	4.19 [4.45]	3.03	6.23	20.4 [18.5]	90.5 ⁱ	4.24	147 ⁱ	3.08	5.70 [7.9]
Beryllium	mg/kg	<0.21	<0.21	0.31	0.28 [0.31]	<0.20	<0.20 [<0.2]	<0.20	<0.20	0.55 [0.43]	2.48	<0.20	2.95	<0.20	NA
Boron	mg/kg	<4.2	<4.2	<4.2	<4.2 [<4.2]	<4.1	<4.0 [<4]	<4.0	<4.0	<4.0 [4.47]	32.6 ^a	<4.1	14.6 ^a	<4.0	<4.0 [<4]
Cadmium	mg/kg	<0.10	<0.10	0.15	0.14 [0.16]	0.15	<0.10 [<0.1]	<0.10	<0.10	<0.10 [<0.1]	0.18	<0.10	0.26	<0.10	<0.10 [<0.1]
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	2.30	2.62	8.74	8.42 [11.1]	1.98	1.20 [1.34]	1.12	1.10	3.90 [3.17]	17.7	1.18	23.7 ⁱ	0.61	1.07 [1.91]
Cobalt	mg/kg	1.86	3.73	4.40	4.95 [6.91]	1.62	1.08 [0.96]	0.87	1.30	2.57 [2.31]	8.37 ^{abi}	1.34	17.5 ^{abi}	0.71	1.16 [1.15]
Copper	mg/kg	2.83	5.64	17.7	9.96 [13.1]	4.80	1.91 [1.97]	4.01	2.72	7.05 [6.15]	23.9	16.1	26.7	1.94	2.36 [3.59]
Lead	mg/kg	3.68	3.32	7.51	5.74 [6.63]	5.59	1.71 [1.79]	1.21	1.61	3.22 [3.47]	10.4	1.87	10.4	1.31	1.72 [2.07]
Manganese	mg/kg	293	188	286	218 [258]	136	115 [129]	91.5	100	101 [103]	86.4	117	77.6	83.9	199 [128]
Mercury	mg/kg	0.0157	0.0061	0.0229	0.0070 [0.0131]	<0.0053	<0.0053 [<0.0054]	<0.0053	<0.0052	<0.0059 [0.0123]	0.0292	0.0088	0.0377	<0.0051	<0.0054 [<0.0054]
Nickel	mg/kg	2.60	6.97	11.1	13.9 [16.7]	4.34	3.51 [3.93]	3.15	3.34	5.91 [5.51]	15.4	3.71	14.6	2.61	14.0 [5.55]
Selenium	mg/kg	<0.21	<0.21	0.30	0.33 [0.22]	<0.20	<0.20 J [0.22 J]	0.21 J	<0.20	0.40 J [0.35 J]	3.98 J ^{bi}	<0.20	5.35 ^{abi}	<0.20	<0.20 [<0.2]
Silver	mg/kg	<0.10	0.26	<0.10	<0.10 [<0.1]	<0.10	<0.10 [<0.1]	<0.10	<0.10	<0.10 [<0.1]	0.16	<0.10	1.65 ^{bi}	<0.10	<0.10 [<0.1]
Thallium	mg/kg	<0.21	<0.21	<0.21	<0.21 [<0.21]	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20 [<0.2]	0.50	<0.20	1.00	<0.20	NA
Vanadium	mg/kg	4.11	4.18	12.7	10.4 [13.9]	2.94	1.99 [1.94]	1.17	1.82	9.75 [7.58]	43.2	2.06	50.3	1.22	1.64 [2.06]
Zinc	mg/kg	9.03	10.5	20.5	23.7 [30.9]	15.3	4.72 [3.91]	4.94	6.24	11.4 [11.1]	27.3	6.77	26.6	4.17	5.54 [4.98]
Miscellaneous															
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	88	93	88	88 [90]	92	96 [92]	92	92	85 [75]	82	88	69	96	92 [91]

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	SB-A21-GQ36 9 - 10 09/19/12	SB-A21-GQ36 19 - 20 09/19/12	SB-A21-GT29 1.5 - 2 06/07/12	SB-A21-GT29 6 - 7 06/07/12	SB-A21-GT29 14 - 15 06/07/12	SS-02-RO 3 - 4 08/12/11	SS-02-RO 15 - 16 08/12/11	SS-15-RO 5 - 6 08/12/11	SS-15-RO 19 - 20 08/12/11	VAP-A11-HE24 3 - 4 06/04/12	VAP-A11-HE24 11 - 12 06/05/12	VAP-A11-HE24 20 - 21 06/05/12	VAP-A11-HE24 30 - 31 06/05/12	VAP-A11-HE24 40 - 41 06/05/12	VAP-A11-HE24 50 - 51 06/05/12
Volatile Organics																
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	NA	NA	NA	NA	NA	<3 J	<3 J	<3 J	<3 J	<70	<60	<70 [<70]	<70	<50	<60
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	NA	NA	NA	NA	NA	<1	<1	<1	<1	<70	<60	<70 [<70]	<70	<50	<60
1,2-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
1,4-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
2-Hexanone	ug/kg	NA	NA	NA	NA	NA	<580	<570	<600	<580	<680	<650	<670 [<730]	<680	<550	<620
Acetone	ug/kg	NA	NA	NA	NA	NA	<580	<570	<600	<580	<680	<650	<670 [<730]	<680	<550	<620
Bromodichloromethane	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
Bromoform	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
Carbon disulfide	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
Carbon tetrachloride	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
Chlorobenzene	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
Chloroform (Trichloromethane)	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
Chloromethane (Methyl chloride)	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
cis-1,3-Dichloropropene	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	<580	<570	<600	<580	<680	<650	<670 [<730]	<680	<550	<620
Methylene chloride	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
Styrene	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
trans-1,3-Dichloropropene	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
Trifluorotrichloroethane (Freon 113)	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	<300	<300	<300	<300	<7,000 J	<6,000	<7,000 [<7,000]	<7,000	<5,000	<6,000
1,1,1-Trichloroethane	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	1,360	<70 [<70]	<70	<50	<60
1,1,2,2-Tetrachloroethane	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
1,1,2-Trichloroethane	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
1,1-Dichloroethane	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	200	<70 [<70]	<70	<50	<60
1,1-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	430 ^{ad}	<70 [<70]	<70	<50	<60
1,2-Dichloroethane	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
cis-1,2-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
trans-1,2-Dichloroethene	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
Trichloroethene	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
Tetrachloroethene	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
Vinyl chloride	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
Chloroethane	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
Benzene	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
Ethylbenzene	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
Toluene	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
o-Xylene	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
m&p-Xylene	ug/kg	NA	NA	NA	NA	NA	<100	<100	<100	<100	<100	<100	<100 [<100]	<100	<100	<100
Xylene (total)	ug/kg	NA	NA	NA	NA	NA	<160	<160	<160	<160	<170	<160	<170 [<170]	<170	<150	<160
Methyl tert butyl ether (MTBE)	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	NA	NA	NA	NA	NA	<580	<570	<600	<580	<680	<650	<670 [<730]	<680	<550	<620
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	NA	NA	NA	NA	NA	<580	<570	<600	<580	<680	<650	<670 [<730]	<680	<550	<620
1,2,4-Trichlorobenzene	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
1,3-Dichlorobenzene	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
Cyclohexane	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
Methyl cyclohexane	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
Dibromochloromethane	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
Isopropyl benzene	ug/kg	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<60	<70 [<70]	<70	<50	<60
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	SB-A21-GQ36 9 - 10 09/19/12	SB-A21-GQ36 19 - 20 09/19/12	SB-A21-GT29 1.5 - 2 06/07/12	SB-A21-GT29 6 - 7 06/07/12	SB-A21-GT29 14 - 15 06/07/12	SS-02-RO 3 - 4 08/12/11	SS-02-RO 15 - 16 08/12/11	SS-15-RO 5 - 6 08/12/11	SS-15-RO 19 - 20 08/12/11	VAP-A11-HE24 3 - 4 06/04/12	VAP-A11-HE24 11 - 12 06/05/12	VAP-A11-HE24 20 - 21 06/05/12	VAP-A11-HE24 30 - 31 06/05/12	VAP-A11-HE24 40 - 41 06/05/12	VAP-A11-HE24 50 - 51 06/05/12
Semivolatile Organics																
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	<40 [<40]	<40	<40	<100 J	<40 J	<40 J	<40 J	<40	<40	<40 [<40]	<40	<30	<70 J
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	NA	NA	<40 [<40]	<40	<40 J	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
2,4,6-Trichlorophenol	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
2,4-Dichlorophenol	ug/kg	NA	NA	<40 [<40]	<40	<40 J	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
2,4,5-Trichlorophenol	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
2,4-Dimethylphenol	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
2,4-Dinitrophenol	ug/kg	NA	NA	<40 [<40]	<40	<40	R	R	R	R	<40	<40	<40 [<40]	<40	<30	R
2,4-Dinitrotoluene	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
2,6-Dinitrotoluene	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
2-Chloronaphthalene	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
2-Chlorophenol	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
2-Methylnaphthalene	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
2-Methylphenol	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
2-Nitroaniline	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
2-Nitrophenol	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
3&4-Methylphenol	ug/kg	NA	NA	<80 [<80]	<80	<70	<100	<40	<40	<40	<80	<80	<80 [<80]	<80	<70	<100 J
3,3'-Dichlorobenzidine	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
Naphthalene	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
3-Nitroaniline	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
4-Bromophenyl phenyl ether	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
4-Chloro-3-methylphenol	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
4-Chloroaniline	ug/kg	NA	NA	<40 J [<40 J]	<40 J	<40 J	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
4-Nitroaniline	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
4-Nitrophenol	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
Anthracene	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	220	<40	<40 [<40]	<40	<30	<70 J
Acenaphthene	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	140	<40	<40 [<40]	<40	<30	<70 J
Acenaphthylene	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
Acetophenone	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
Atrazine	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
Benzaldehyde	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
Benzo(a)anthracene	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	730	<40	<40 [<40]	<40	<30	<70 J
Benzo(a)pyrene	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	670	<40	<40 [<40]	<40	<30	<70 J
Benzo(b)fluoranthene	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	1,310 J	<40	<40 [<40]	<40	<30	<70 J
Benzo(g,h,i)perylene	ug/kg	NA	NA	<40 [<40]	<40	<40 J	<100	<40	<40	<40	400	<40	<40 [<40]	<40	<30	<70 J
Benzo(k)fluoranthene	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	1,350 J	<40	<40 [<40]	<40	<30	<70 J
Biphenyl (1,1-Biphenyl)	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
bis(2-Chloroethoxy)methane	ug/kg	NA	NA	<40 [<40]	<40	<40 J	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
bis(2-Chloroethyl)ether	ug/kg	NA	NA	<40 [<40]	<40	<40 J	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	NA	<80 [<80]	<80	<70	<100	<40	<40	<40	<80	<80	<80 [<80]	<80	<70	<100 J
Butyl benzylphthalate (BBP)	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
Caprolactam	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
Carbazole	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	150	<40	<40 [<40]	<40	<30	<70 J
Chrysene	ug/kg	NA	NA	<40 [<40]	<40	<40	<300	<70	<70	<70	800	<40	<40 [<40]	<40	<30	<70 J
Dibenz(a,h)anthracene	ug/kg	NA	NA	<80 [<80]	<80	<70	<300	<70	<70	<70	160	<80	<80 [<80]	<80	<70	<100 J
Dibenzofuran	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	50	<40	<40 [<40]	<40	<30	<70 J
Diethyl phthalate	ug/kg	NA	NA	<80 [<80]	<80	<70	<300	<70	<70	<70	<80	<80	<80 [<80]	<80	<70	<100 J
Dimethyl phthalate	ug/kg	NA	NA	<210 B [<130 B]	<130 B	<90 B	<300	<70	<70	<70	<180 B	<150 B	<160 B [<50 B]	<170 B	<120 B	<130 B
Di-n-butylphthalate (DBP)	ug/kg	NA	NA	<80 [<80]	<80	<70	<300	<70	<70	<70	<80	<80	<80 [<80]	<80	<70	<100 J
Di-n-octyl phthalate (DnOP)	ug/kg	NA	NA	<80 [<80]	<80	<70	<100	<40	<40	<40	<80	<80	<80 [<80]	<80	<70	<100 J
Fluoranthene	ug/kg	NA	NA	<40 [50]	<40	<40	200	<40	<40	<40	1,870	<40	<40 [<40]	<40	<30	<70 J
Fluorene	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	140	<40	<40 [<40]	<40	<30	<70 J
Hexachlorobenzene	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
Hexachlorobutadiene	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
Hexachlorocyclopentadiene	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
Hexachloroethane	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
Indeno(1,2,3-cd)pyrene	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	400	<40	<40 [<40]	<40	<30	<70 J
Isophorone	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
Nitrobenzene	ug/kg	NA	NA	<40 [<40]	<40	<40 J	<100 J	<40 J	<40 J	<40 J	<40	<40	<40 [<40]	<40	<30	<70 J
N-Nitrosodi-n-propylamine	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
N-Nitrosodiphenylamine	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
Pentachlorophenol	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
Phenanthrene	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	990	<40	<40 [<40]	<40	<30	<70 J
Phenol	ug/kg	NA	NA	<40 [<40]	<40	<40	<100	<40	<40	<40	<40	<40	<40 [<40]	<40	<30	<70 J
Pyrene	ug/kg	NA	NA	<40 [40]	<40	<40	200	<40	<40	<40	1,490	<40	<40 [<40]	<40	<30	<70 J

TABLE 14 RFI Phase 2 Summary Report RACER Plant 3 Summary of Soil Sample Analytical Results																
Location ID: Sample Depth(ft): Date Collected: QC Status:		SB-A21-GQ36 9 - 10 09/19/12	SB-A21-GQ36 19 - 20 09/19/12	SB-A21-GT29 1.5 - 2 06/07/12	SB-A21-GT29 6 - 7 06/07/12	SB-A21-GT29 14 - 15 06/07/12	SS-02-RO 3 - 4 08/12/11	SS-02-RO 15 - 16 08/12/11	SS-15-RO 5 - 6 08/12/11	SS-15-RO 19 - 20 08/12/11	VAP-A11-HE24 3 - 4 06/04/12	VAP-A11-HE24 11 - 12 06/05/12	VAP-A11-HE24 20 - 21 06/05/12	VAP-A11-HE24 30 - 31 06/05/12	VAP-A11-HE24 40 - 41 06/05/12	VAP-A11-HE24 50 - 51 06/05/12
PCBs																
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA
Inorganics																
Antimony	mg/kg	<0.20	<0.20	<0.20 [<0.2]	<0.21	<0.20	<0.11	<0.11	<0.10	<0.10	<0.20	<0.20	<0.21 [<0.2]	<0.20	<0.20	<0.20
Arsenic	mg/kg	1.30	0.92	0.76 [0.73]	1.12	1.65	0.75	0.77	0.90	0.61	0.92	0.70	3.77 [3.49]	3.73	1.77	1.60
Barium	mg/kg	4.78	4.46	3.52 [3.53]	5.15	5.00	16.6	31.1	16.7	12.2	15.4	28.7	10.2 [19.5]	4.96	3.53	5.94
Beryllium	mg/kg	NA	NA	<0.20 [<0.2]	<0.21	<0.20	<0.11	<0.11	<0.10	<0.10	<0.20	<0.20	<0.21 [<0.2]	<0.20	<0.20	<0.20
Boron	mg/kg	<4.0	<4.0	<4.0 [<4]	<4.2	<4.0	<4.32	<4.24	<4.12	<4.22	<4.1	<4.1	<4.2 [<4.1]	<4.0	<4.0	<4.0
Cadmium	mg/kg	<0.10	<0.10	<0.10 [<0.1]	<0.10	0.10	<0.11	<0.11	<0.10	<0.10	<0.10	<0.10	<0.10 [0.14]	<0.10	<0.10	0.11
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	0.605	0.543	0.87 [1.07]	1.55	1.58	1.72	6.08	1.80	3.90	4.01	4.32	3.23 [3.43]	1.63	0.97	1.20
Cobalt	mg/kg	0.85	0.60	0.90 [0.98]	1.07	1.60	2.22	3.19	1.87	1.17	3.48	3.64	1.32 [2.53]	0.90	0.85	1.33
Copper	mg/kg	2.12	1.59	2.79 [2.87]	3.57	3.38	6.60	7.79	3.31	2.85	7.08	4.96	4.97 [7.17]	1.92	1.27	3.35
Lead	mg/kg	1.52	1.32	1.62 [1.52]	1.75	2.47	3.20	3.14	2.39	1.40	3.12	5.88	3.05 [2.99]	1.21	1.12	2.25
Manganese	mg/kg	127	93.1	70.9 [74]	93.2	207	214	201	186	128	216	246	164 [229]	85.4	84.5	114
Mercury	mg/kg	<0.0051	<0.0052	<0.0062 [<0.006]	<0.0057	<0.0055	0.0099	0.0119	0.0060	0.0055	0.0066	0.0092	0.0062 [<0.0061]	<0.0058	<0.0051	<0.005
Nickel	mg/kg	4.52	3.35	2.49 [2.89]	3.02	5.72	6.18	10.0	5.40	4.71	7.60	10.8	5.50 [6.42]	3.39	2.60	4.45
Selenium	mg/kg	<0.20	<0.20	<0.20 J [<0.2 J]	0.29 J	<0.20 J	0.21	<0.11	<0.10	0.11	<0.20	<0.20	<0.21 [<0.2]	<0.20	<0.20	<0.20
Silver	mg/kg	<0.10	<0.10	<0.10 [<0.1]	<0.10	<0.10	<0.11	<0.11	<0.10	<0.10	<0.10	<0.10	<0.10 [<0.1]	<0.10	<0.10	<0.10
Thallium	mg/kg	NA	NA	<0.20 [<0.2]	<0.21	<0.20	<0.11	<0.11	<0.10	<0.10	<0.20	<0.20	<0.21 [<0.2]	<0.20	<0.20	<0.20
Vanadium	mg/kg	1.11	1.08	1.40 [1.65]	2.30	3.10	3.66	4.26	3.15	2.08	4.97	5.98	4.26 [5.78]	1.56	1.30	2.02
Zinc	mg/kg	5.43	5.62	7.60 [7.16]	7.44	9.37	9.52	8.27	6.18	4.93	11.6	11.0	12.5 [14.4]	6.12	9.49	16.4
Miscellaneous																
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	97	96	81 [82]	86	90	91	93	89	94	86	87	85 [83]	86	99	99

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		VAP-A11-HE24 61 - 62 06/05/12	VAP-A11-HE24 73.5 - 74.5 06/05/12	VAP-A14-CP124 1 - 2 05/25/12	VAP-A14-CP124 6 - 7 06/01/12	VAP-A14-CP124 11 - 12 06/01/12	VAP-A14-CP124 16 - 17 06/01/12	VAP-A14-CP124 21 - 22 06/01/12	VAP-A14-CP124 26 - 27 06/01/12	VAP-A14-CP124 31 - 32 06/01/12	VAP-A14-CP124 36 - 37 06/01/12	VAP-A14-CP124 41 - 42 06/01/12	VAP-A14-CP124 46 - 47 06/01/12	VAP-A14-CP124 51 - 52 06/01/12
Units														
Volatile Organics														
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	ug/kg	<650	<780	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	ug/kg	<650	<780	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane (Methyl bromide)	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform (Trichloromethane)	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane (Methyl chloride)	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane (CFC-12)	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	<650	<780	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane (CFC-11)	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	ug/kg	<7,000	<8,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	ug/kg	<100	<200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene (total)	ug/kg	<170	<280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert butyl ether (MTBE)	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<650	<780	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<650	<780	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl benzene	ug/kg	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		VAP-A11-HE24 61 - 62 06/05/12	VAP-A11-HE24 73.5 - 74.5 06/05/12	VAP-A14-CP124 1 - 2 05/25/12	VAP-A14-CP124 6 - 7 06/01/12	VAP-A14-CP124 11 - 12 06/01/12	VAP-A14-CP124 16 - 17 06/01/12	VAP-A14-CP124 21 - 22 06/01/12	VAP-A14-CP124 26 - 27 06/01/12	VAP-A14-CP124 31 - 32 06/01/12	VAP-A14-CP124 36 - 37 06/01/12	VAP-A14-CP124 41 - 42 06/01/12	VAP-A14-CP124 46 - 47 06/01/12	VAP-A14-CP124 51 - 52 06/01/12
Semivolatile Organics														
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/kg	<80	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1'-Biphenyl)	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<80	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/kg	<80	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/kg	<80	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/kg	<110 B	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/kg	<80	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/kg	<80	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/kg	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	VAP-A11-HE24 61 - 62 06/05/12	VAP-A11-HE24 73.5 - 74.5 06/05/12	VAP-A14-CP124 1 - 2 05/25/12	VAP-A14-CP124 6 - 7 06/01/12	VAP-A14-CP124 11 - 12 06/01/12	VAP-A14-CP124 16 - 17 06/01/12	VAP-A14-CP124 21 - 22 06/01/12	VAP-A14-CP124 26 - 27 06/01/12	VAP-A14-CP124 31 - 32 06/01/12	VAP-A14-CP124 36 - 37 06/01/12	VAP-A14-CP124 41 - 42 06/01/12	VAP-A14-CP124 46 - 47 06/01/12	VAP-A14-CP124 51 - 52 06/01/12
PCBs														
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics														
Antimony	mg/kg	<0.21	<0.21	<0.20 [<0.2]	<0.20	<0.21	<0.20	<0.21	<0.21	<0.20	<0.20	<0.20	<0.20	<0.23
Arsenic	mg/kg	2.61	5.29	0.77 [0.91]	1.49	2.65	1.62	1.87	2.18	3.17	2.69	2.35	1.74	2.47
Barium	mg/kg	7.99	14.9	8.45 [12.3]	38.5	18.3	17.4	37.4	17.2	15.3	6.52	6.99	7.45	14.8
Beryllium	mg/kg	<0.21	<0.21	<0.20 [<0.2]	<0.20	<0.21	<0.20	0.30	<0.21	<0.20	<0.20	<0.20	<0.20	<0.23
Boron	mg/kg	<4.2	<4.2	<4.0 [<4.1]	<4.1	<4.3	5.95	7.16	6.75	4.23	<4.0	<4.0	<4.1	<4.6
Cadmium	mg/kg	<0.10	<0.10	<0.10 [<0.1]	<0.10	0.11	<0.10	0.14	0.12	0.12	0.13	0.13	<0.10	<0.11
Chromium VI (hexavalent)	mg/kg	NA	NA	<1 [<1]	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1
Chromium	mg/kg	2.07	4.15	1.75 [2.84]	4.96	4.25	2.91	10.3	5.25	3.46	1.84	1.72	1.57	3.49
Cobalt	mg/kg	2.06	4.21	2.20 [3.51]	2.75	3.50	2.41	6.45	3.06	2.70	1.65	2.31	1.76	3.51
Copper	mg/kg	4.43	7.64	5.24 [8.3]	23.1	16.4	7.34	15.4	7.63	6.51	4.25	4.67	3.68	6.68
Lead	mg/kg	3.94	5.04	2.76 [4.14]	4.16	3.59	3.16	6.81	3.76	3.54	3.60	3.74	2.32	3.56
Manganese	mg/kg	209	324	137 [157]	215	244	163	339	216	272	182	161	192	272
Mercury	mg/kg	0.0065	0.0137	0.0076 [0.0151]	0.0095	0.0133	0.0082	0.0143	0.0091	0.0084	<0.005	0.0060	<0.0056	0.0122
Nickel	mg/kg	6.06	10.8	6.99 [8.78]	696 ^{abi}	18.9	2,970 ^{abi}	30.9 ⁱ	9.59	8.55	6.41	7.26	4.55	9.10
Selenium	mg/kg	<0.21	0.27	<0.20 [<0.2]	<0.20	<0.21	<0.20	<0.21	0.26	<0.20	0.26	0.28	<0.20	0.25
Silver	mg/kg	<0.10	<0.10	0.10 [0.21]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11
Thallium	mg/kg	<0.21	<0.21	<0.20 [<0.2]	<0.20	<0.21	<0.20	<0.21	<0.21	<0.20	<0.20	<0.20	<0.20	<0.23
Vanadium	mg/kg	4.02	6.25	1.98 [2.38]	7.95	6.35	5.72	13.7	6.99	5.51	3.83	3.88	2.83	5.44
Zinc	mg/kg	26.8	28.3	4.41 [5.63]	10.6	14.3	9.67	28.5	20.8	21.5	20.3	29.9	15.4	31.7
Miscellaneous														
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	85	79	83 [82]	87	90	90	84	90	88	97	98	89	73

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		VAP-A14-CP124 56 - 57 06/01/12	VAP-A14-CP124 61 - 62 06/04/12	VAP-A14-CP124 77.5 - 78 06/04/12	VAP-A14-EA121 1 - 2 05/25/12	VAP-A14-EA121 5 - 6 05/25/12	VAP-A14-EA121 10 - 11 05/25/12	VAP-A14-EA121 15 - 16 05/25/12	VAP-A14-EA121 20 - 21 05/25/12	VAP-A14-EA121 25 - 26 05/25/12	VAP-A14-EA121 30 - 31 05/25/12	VAP-A14-EA121 32 - 33 05/25/12	VAP-A17-DE144 1 - 2 05/18/12	VAP-A17-DE144 7 - 8 05/22/12
	Units													
Volatile Organics														
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
1,2-Dichlorobenzene	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
1,4-Dichlorobenzene	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
2-Hexanone	ug/kg	NA	<700	<730	NA	NA	NA	NA	NA	NA	NA	NA	<730	<800
Acetone	ug/kg	NA	<700	<730	NA	NA	NA	NA	NA	NA	NA	NA	<1,800 J	<2,000
Bromodichloromethane	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
Bromoform	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
Bromomethane (Methyl bromide)	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
Carbon tetrachloride	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
Chlorobenzene	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
Chloroform (Trichloromethane)	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
Chloromethane (Methyl chloride)	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<180	<200
cis-1,3-Dichloropropene	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	<700	<730	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
Styrene	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
trans-1,3-Dichloropropene	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
Trichlorofluoromethane (CFC-11)	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
1,4-Dioxane	ug/kg	NA	<7,000 J	<7,000 J	NA	NA	NA	NA	NA	NA	NA	NA	<730	<800
1,1,1-Trichloroethane	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
1,1,2,2-Tetrachloroethane	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
1,1,2-Trichloroethane	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
1,1-Dichloroethane	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
1,1-Dichloroethene	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
1,2-Dichloroethane	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
cis-1,2-Dichloroethene	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
trans-1,2-Dichloroethene	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
Trichloroethene	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
Tetrachloroethene	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
Vinyl chloride	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
Chloroethane	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
Benzene	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
Ethylbenzene	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
Toluene	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
o-Xylene	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
m&p-Xylene	ug/kg	NA	<100	<100	NA	NA	NA	NA	NA	NA	NA	NA	<150	<160
Xylene (total)	ug/kg	NA	<170	<170	NA	NA	NA	NA	NA	NA	NA	NA	<223	<240
Methyl tert butyl ether (MTBE)	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	NA	<700	<730	NA	NA	NA	NA	NA	NA	NA	NA	<730	<800
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	NA	<700	<730	NA	NA	NA	NA	NA	NA	NA	NA	<730	<800
1,2,4-Trichlorobenzene	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
1,2-Dichloropropane	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
1,3-Dichlorobenzene	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
Cyclohexane	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
Methyl cyclohexane	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
Dibromochloromethane	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
Isopropyl benzene	ug/kg	NA	<70	<70	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<73	<80

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		VAP-A14-CP124 56 - 57 06/01/12	VAP-A14-CP124 61 - 62 06/04/12	VAP-A14-CP124 77.5 - 78 06/04/12	VAP-A14-EA121 1 - 2 05/25/12	VAP-A14-EA121 5 - 6 05/25/12	VAP-A14-EA121 10 - 11 05/25/12	VAP-A14-EA121 15 - 16 05/25/12	VAP-A14-EA121 20 - 21 05/25/12	VAP-A14-EA121 25 - 26 05/25/12	VAP-A14-EA121 30 - 31 05/25/12	VAP-A14-EA121 32 - 33 05/25/12	VAP-A17-DE144 1 - 2 05/18/12	VAP-A17-DE144 7 - 8 05/22/12
	Units													
Semivolatile Organics														
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40 J	<40	<40 J
2,4,6-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
2,4-Dichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40 J	<40	<40
2,4,5-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
2,4-Dimethylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40 J	<40	<40
2,4-Dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	<40	<40
2,4-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
2,6-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
2-Chloronaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
2-Chlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
2-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
2-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
2-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
2-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40 J	<40	<40
3&4-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<80	<80	<80
3,3'-Dichlorobenzidine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
3-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
4-Bromophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
4-Chloro-3-methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
4-Chloroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
4-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
4-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40 J	<40	<40
Anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
Acenaphthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
Acenaphthylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
Acetophenone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
Atrazine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
Benzaldehyde	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
Benzo(a)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
Benzo(a)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
Benzo(b)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
Benzo(g,h,i)perylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
Benzo(k)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
Biphenyl (1,1'-Biphenyl)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
bis(2-Chloroethoxy)methane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40 J	<40	<40 J
bis(2-Chloroethyl)ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40 J	<40	<40 J
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<80	<80	280
Butyl benzylphthalate (BBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
Caprolactam	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<1,320	<40
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
Chrysene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
Dibenz(a,h)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<80	<80	<80
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
Diethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<80	<80	<80
Dimethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100 B	<260 B	<460 B
Di-n-butylphthalate (DBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<80	<80	<80
Di-n-octyl phthalate (DnOP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<80	<80	<80
Fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	40	<40
Fluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
Hexachlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
Hexachlorobutadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40 J	<40	<40
Hexachlorocyclopentadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
Hexachloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
Indeno(1,2,3-cd)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
Isophorone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40 J	<40	<40
Nitrobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40 J	<40	<40 J
N-Nitrosodi-n-propylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
N-Nitrosodiphenylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
Pentachlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40 J	<40	<40
Phenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
Phenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40
Pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40	<40

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		VAP-A14-CP124 56 - 57 06/01/12	VAP-A14-CP124 61 - 62 06/04/12	VAP-A14-CP124 77.5 - 78 06/04/12	VAP-A14-EA121 1 - 2 05/25/12	VAP-A14-EA121 5 - 6 05/25/12	VAP-A14-EA121 10 - 11 05/25/12	VAP-A14-EA121 15 - 16 05/25/12	VAP-A14-EA121 20 - 21 05/25/12	VAP-A14-EA121 25 - 26 05/25/12	VAP-A14-EA121 30 - 31 05/25/12	VAP-A14-EA121 32 - 33 05/25/12	VAP-A17-DE144 1 - 2 05/18/12	VAP-A17-DE144 7 - 8 05/22/12
	Units													
PCBs														
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
Inorganics														
Antimony	mg/kg	<0.21	<0.21	<0.22	<0.20 [<0.2]	<0.21	<0.21	<0.20	<0.21	<0.20	<0.20	<0.21	<0.21	<0.20
Arsenic	mg/kg	3.10	2.74	2.53	1.33 [1.27]	1.85	1.22	1.69	1.50	0.64	0.20	1.15	0.99	0.41
Barium	mg/kg	11.6	8.77	16.3	28.5 [26]	34.8	39.9	21.2	31.7	12.3	3.98	8.77	74.9	9.58
Beryllium	mg/kg	<0.21	<0.21	<0.22	<0.20 [<0.2]	<0.21	0.28	<0.20	0.23	<0.20	<0.20	<0.21	0.39	<0.20
Boron	mg/kg	<4.2	<4.3	<4.4	<4.0 [<4]	<4.3	<4.2	<4.1	<4.2	<4.0	<4.1	<4.3	<4.3	<4.0
Cadmium	mg/kg	<0.10	<0.10	<0.11	0.14 [0.16]	0.57	0.14	<0.10	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chromium VI (hexavalent)	mg/kg	<1	<1	<1	<1 [<1]	<1	R	<1	<1	<1	<1	NA	NA	NA
Chromium	mg/kg	2.46	2.82	21.7 ¹	3.96 [2.94]	5.50	4.72	2.93	3.46	1.13	0.52	1.49	6.96	1.36
Cobalt	mg/kg	2.71	2.89	3.76	2.69 [2.39]	8.93 ^{abi}	4.44	2.71	3.55	1.72	0.45	1.27	4.28	1.10
Copper	mg/kg	5.42	6.66	9.73	7.17 [8.2]	65.7 ¹	13.0	7.77	9.63	1.55	1.54	3.55	16.8	3.28
Lead	mg/kg	3.16	3.85	4.17	5.85 [8.57]	14.2	6.41	4.11	4.85	1.50	1.03	2.32	6.89	2.39
Manganese	mg/kg	200	252	261	264 [248]	456 ^{abi}	290	248	238	139	60.8	162	286	70.5
Mercury	mg/kg	0.0075	0.0083	0.0089	0.0141 [0.0192]	0.0209	0.0151	0.0090	0.0122	<0.0055	<0.0057	<0.0062	0.0150	0.0089
Nickel	mg/kg	7.00	7.65	13.0	6.56 [7.5]	9.22	12.7	8.89	10.1	4.99	2.21	4.25	10.9	1.71
Selenium	mg/kg	0.25	<0.21	<0.22	<0.20 [0.24]	<0.21	<0.21	0.37	0.25	<0.20	<0.20	<0.21	<0.21	<0.20
Silver	mg/kg	<0.10	<0.10	<0.11	<0.10 [<0.1]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Thallium	mg/kg	<0.21	<0.21	<0.22	<0.20 [<0.2]	<0.21	<0.21	<0.20	<0.21	<0.20	<0.20	<0.21	<0.21	<0.20
Vanadium	mg/kg	4.12	5.04	5.26	4.17 [3.35]	3.78	8.40	5.55	6.24	2.69	1.22	3.31	14.6	3.12
Zinc	mg/kg	13.5	25.1	37.5	20.5 [15.9]	40.9	20.3	17.3	15.1	5.58	2.97	9.92	17.1	3.98
Miscellaneous														
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	85	84	82	92 [92]	87	87	90	91	92	88	79	84	87

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	VAP-A17-DE144 11 - 12 05/22/12	VAP-A17-DE144 16 - 17 05/22/12	VAP-A17-DE144 21 - 22 05/22/12	VAP-A17-DE144 27 - 28 05/22/12	VAP-A17-DE144 32 - 33 05/22/12	VAP-A17-DE144 37 - 38 05/22/12	VAP-A17-DE144 40 - 41 05/22/12	VAP-A17-DF167 9 - 10 05/21/12	VAP-A17-DF167 40 - 41 05/21/12	VAP-A17-EC144 11 - 12 05/23/12	VAP-A17-EC144 16 - 17 05/25/12	VAP-A17-EC144 42 - 43 05/24/12	VAP-A18-CP144 1 - 2 05/17/12
Volatile Organics														
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
1,2-Dichlorobenzene	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
1,4-Dichlorobenzene	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
2-Hexanone	ug/kg	<740	<780	<660	<770	<770	<820	<790	<710	<710	<840	<880	<900	<550
Acetone	ug/kg	<1,900	<2,000	<1,600	<1,900	<1,900	<2,000	<2,000	2,400 B	2,900 B	<2,100	<2,200	<2,300	<1,400 J
Bromodichloromethane	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
Bromoform	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
Carbon tetrachloride	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
Chlorobenzene	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
Chloroform (Trichloromethane)	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
Chloromethane (Methyl chloride)	ug/kg	<190	<200	<160	<190	<190	<200	<200	<180	<180	<210	<220	<230	<140
cis-1,3-Dichloropropene	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	7,000 ^a	<90	<55
Styrene	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
trans-1,3-Dichloropropene	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
1,4-Dioxane	ug/kg	<740	<780	<660	<770	<770	<820	<790	<710	<710	<840	<880	<900	<550
1,1,1-Trichloroethane	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
1,1,2,2-Tetrachloroethane	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
1,1,2-Trichloroethane	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
1,1-Dichloroethane	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
1,1-Dichloroethene	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
1,2-Dichloroethane	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
cis-1,2-Dichloroethene	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
trans-1,2-Dichloroethene	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
Trichloroethene	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
Tetrachloroethene	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
Vinyl chloride	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
Chloroethane	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
Benzene	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	6,200 ^{ab}	<90	<55
Ethylbenzene	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	28 J	20,000 ^{ab}	<90	<55
Toluene	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	22 J	24,000 ^{ab}	<90	<55
o-Xylene	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	40 J	24,000 ^{ab}	<90	<55
m&p-Xylene	ug/kg	<150	<160	<130	<150	<150	<160	<160	<140	<140	<170	62,000 ^{ab}	<180	<110
Xylene (total)	ug/kg	<224	<238	<196	<227	<227	<242	<239	<211	<211	40 J	86,000 ^{ab}	<270	<165
Methyl tert butyl ether (MTBE)	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<740	<780	<660	<770	<770	<820	<790	<710	<710	<840	<880	<900	<550
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<740	<780	<660	<770	<770	<820	<790	<710	<710	<840	<880	<900	<550
1,2,4-Trichlorobenzene	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
1,2,4-Trimethylbenzene	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	87	73,000 ^{ab}	<90	<55
1,3,5-Trimethylbenzene	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	31 J	15,000 ^{ab}	<90	<55
1,2-Dichloropropane	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	<88	<90	<55
1,3-Dichlorobenzene	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	14 J	<88	<90	<55
Cyclohexane	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	31,000	<90	<55
Methyl cyclohexane	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	11,000	<90	<55
Dibromochloromethane	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	130	<90	<55
Isopropyl benzene	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	760	<90	<55
Naphthalene	ug/kg	<74	<78	<66	<77	<77	<82	<79	<71	<71	<84	2,300 ^b	<90	<55

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		VAP-A17-DE144 11 - 12 05/22/12	VAP-A17-DE144 16 - 17 05/22/12	VAP-A17-DE144 21 - 22 05/22/12	VAP-A17-DE144 27 - 28 05/22/12	VAP-A17-DE144 32 - 33 05/22/12	VAP-A17-DE144 37 - 38 05/22/12	VAP-A17-DE144 40 - 41 05/22/12	VAP-A17-DF167 9 - 10 05/21/12	VAP-A17-DF167 40 - 41 05/21/12	VAP-A17-EC144 11 - 12 05/23/12	VAP-A17-EC144 16 - 17 05/25/12	VAP-A17-EC144 42 - 43 05/24/12	VAP-A18-CP144 1 - 2 05/17/12
	Units													
Semivolatile Organics														
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40 J	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40 J	<40 J	<40 J	<30 J	<40 J	<40	<40	<40	<40	<1,000 J	<20,000 J	<40 J	<40
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
2,4-Dichlorophenol	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40 J	<40
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
2,4-Dimethylphenol	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
2,4-Dinitrophenol	ug/kg	<40 J	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
2-Chloronaphthalene	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
2-Chlorophenol	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
2-Methylnaphthalene	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
2-Methylphenol	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
2-Nitroaniline	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
2-Nitrophenol	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40 J	<40
3&4-Methylphenol	ug/kg	<80	<80	<70	<70	<80	<80	<70	<70	<70	<2,000 J	<40,000 J	<80	<70
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Naphthalene	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
3-Nitroaniline	ug/kg	<40 J	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
4-Chloroaniline	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
4-Nitroaniline	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
4-Nitrophenol	ug/kg	<40 J	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Anthracene	ug/kg	<40 J	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Acenaphthene	ug/kg	<40 J	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Acenaphthylene	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Acetophenone	ug/kg	<40 J	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Atrazine	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Benzaldehyde	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Benzo(a)anthracene	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Benzo(a)pyrene	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Benzo(b)fluoranthene	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Benzo(g,h,i)perylene	ug/kg	<40 J	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Benzo(k)fluoranthene	ug/kg	<40 J	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
bis(2-Chloroethoxy)methane	ug/kg	<40 J	<40 J	<40 J	<30 J	<40 J	<40	<40	<40	<40	<1,000 J	<20,000 J	<40 J	<40
bis(2-Chloroethyl)ether	ug/kg	<40 J	<40 J	<40 J	<30 J	<40 J	<40	<40	<40	<40	<1,000 J	<20,000 J	<40 J	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<80	<80	<70	<70	<80	<80	<70	80	<70	<2,000 J	<40,000 J	<80	<70
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Caprolactam	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Carbazole	ug/kg	<40 J	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Chrysene	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Dibenz(a,h)anthracene	ug/kg	<80	<80	<70	<70	<80	<80	<70	<70	<70	<2,000 J	<40,000 J	<80	<70
Dibenzofuran	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Diethyl phthalate	ug/kg	<80 J	<80	<70	<70	<80	<80	<70	<70	<70	<2,000 J	<40,000 J	<80	<70
Dimethyl phthalate	ug/kg	<410 B.J	<280 B	<300 B	<340 B	<260 B	<130 B	<270 B	<50 B	<50 B	<1,000 J	<20,000 J	<50 B	<190 B
Di-n-butylphthalate (DBP)	ug/kg	<80 J	<80	<70	<70	<80	<80	<70	<70	<70	<2,000 J	<40,000 J	<80	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<80	<80	<70	<70	<80	<80	<70	<70	<70	<2,000 J	<40,000 J	<80	<70
Fluoranthene	ug/kg	<40 J	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Fluorene	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Hexachlorobenzene	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Hexachlorobutadiene	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Hexachlorocyclopentadiene	ug/kg	<40 J	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Hexachloroethane	ug/kg	<40 J	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<40 J	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Isophorone	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40 J	<40
Nitrobenzene	ug/kg	<40 J	<40 J	<40 J	<30 J	<40 J	<40	<40	<40	<40	<1,000 J	<20,000 J	<40 J	<40
N-Nitrosodi-n-propylamine	ug/kg	<40 J	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
N-Nitrosodiphenylamine	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Pentachlorophenol	ug/kg	<40 J	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Phenanthrene	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	20,000 J ^b	<40	<40
Phenol	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40
Pyrene	ug/kg	<40	<40	<40	<30	<40	<40	<40	<40	<40	<1,000 J	<20,000 J	<40	<40

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	VAP-A17-DE144 11 - 12 05/22/12	VAP-A17-DE144 16 - 17 05/22/12	VAP-A17-DE144 21 - 22 05/22/12	VAP-A17-DE144 27 - 28 05/22/12	VAP-A17-DE144 32 - 33 05/22/12	VAP-A17-DE144 37 - 38 05/22/12	VAP-A17-DE144 40 - 41 05/22/12	VAP-A17-DF167 9 - 10 05/21/12	VAP-A17-DF167 40 - 41 05/21/12	VAP-A17-EC144 11 - 12 05/23/12	VAP-A17-EC144 16 - 17 05/25/12	VAP-A17-EC144 42 - 43 05/24/12	VAP-A18-CP144 1 - 2 05/17/12
PCBs														
Aroclor-1016 (PCB-1016)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<5	<30	<3	NA
Aroclor-1221 (PCB-1221)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<5	<30	<3	NA
Aroclor-1232 (PCB-1232)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<5	<30	<3	NA
Aroclor-1242 (PCB-1242)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<5	<30	<3	NA
Aroclor-1248 (PCB-1248)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<5	<30	<3	NA
Aroclor-1254 (PCB-1254)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<6	<30	<3	NA
Aroclor-1260 (PCB-1260)	ug/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<5	<30	<3	NA
Total PCBs	ug/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Inorganics														
Antimony	mg/kg	<0.21	<0.21	<0.20	<0.20	<0.21	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Arsenic	mg/kg	0.43	1.58	2.04	0.59	2.42	3.12	2.90	1.42	1.85	2.71	0.74	4.09	1.47
Barium	mg/kg	12.4	33.6	18.8	3.49	17.8	7.46	9.07	9.17	5.99	68.1	21.7	17.4	25.3
Beryllium	mg/kg	<0.21	0.21	<0.20	<0.20	<0.21	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20
Boron	mg/kg	<4.2	<4.2	<4.0	<4.0	<4.3	<4.3	<4.0	<4.0	<4.0	<4.0	<4.0	<4.3	<4.0
Cadmium	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	0.11	0.12	<0.10	<0.10	0.11	<0.10	<0.10	<0.10
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	1.49	6.01	3.10	0.84	3.23	2.04	1.64	2.62	0.96	3.48	1.77	2.99	2.50
Cobalt	mg/kg	0.88	4.15	3.26	0.64	2.77	2.01	1.44	1.01	1.25	3.03	1.32	2.87	3.32
Copper	mg/kg	2.51	11.9	9.51	2.29	8.00	5.03	4.03	1.77	3.83	11.5	22.0	7.21	4.19
Lead	mg/kg	2.06	4.98	3.63	1.28	4.24	3.36	2.51	1.31	2.32	4.91	15.8	4.35	3.30
Manganese	mg/kg	81.2	256	230	84.5	283	267	176	104	179	370	146	312	230
Mercury	mg/kg	0.0071	0.0098	0.0081	<0.005	0.01342	<0.006	<0.0057	<0.0055	<0.0056	0.0152	0.0087	0.0114	0.0107
Nickel	mg/kg	1.29	13.0	9.07	2.46	8.18	6.53	4.70	3.65	4.46	8.91	4.78	9.28	6.65
Selenium	mg/kg	<0.21	<0.21	<0.20	<0.20	<0.21	<0.21	<0.20	<0.20	<0.20	0.29	<0.20	0.24	<0.20
Silver	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.13
Thallium	mg/kg	<0.21	<0.21	<0.20	<0.20	<0.21	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20
Vanadium	mg/kg	2.81	8.08	4.98	1.57	5.53	3.89	2.88	2.76	1.98	4.69	1.74	5.22	4.82
Zinc	mg/kg	2.51	18.2	15.1	8.28	13.1	18.9	15.5	3.87	13.5	46.2	6.79	16.6	7.39
Miscellaneous														
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	87	88	89	99	86	83	89	90	89	84	93	80	90

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		VAP-A18-CP144 11 - 12 05/17/12	VAP-A18-CP144 20 - 21 05/17/12	VAP-A18-CP144 27 - 28 05/17/12	VAP-A18-CP144 37 - 38 05/17/12	VAP-A18-CP144 47 - 48 05/17/12	VAP-A18-CP144 57 - 58 05/17/12	VAP-A19-HJ150 1 - 2 06/06/12	VAP-A19-HJ150 7 - 8 06/06/12	VAP-A19-HJ150 18 - 19 06/06/12	VAP-A19-HJ150 24 - 25 06/06/12	VAP-A19-HJ150 31 - 32 06/07/12	VAP-A20-FL0 23 - 24 06/07/12	VAP-A20-FL0 34 - 35 06/08/12	VAP-A20-FL0 43 - 44 06/08/12
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	ug/kg	<730	<730	<770	<660	<770	<640	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	ug/kg	<2,100 BJ	<1,800 J	<2,300 BJ	<660	<1,900 J	<640	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	<70	NA	<60	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform (Trichloromethane)	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane (Methyl chloride)	ug/kg	<180	<180	<190	<70	<190	<60	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	<70	NA	<60	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	<660	NA	<640	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	<70	NA	<60	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	ug/kg	<730	<730	<770	<7,000	<770	<6,000	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	<73	<73	60 J	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	ug/kg	<73	<73	62 J	21 J	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	ug/kg	<150	<150	<150	<100	<150	<100	NA	NA	NA	NA	NA	NA	NA	NA
Xylene (total)	ug/kg	<223	<223	<227	<170	<227	<160	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert butyl ether (MTBE)	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<730	<730	<770	<660	<770	<640	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<730	<730	<770	<660	<770	<640	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	ug/kg	<73	<73	<77	<78	<77	<81	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	<73	<73	<77	<78	<77	<81	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl benzene	ug/kg	<73	<73	<77	<70	<77	<60	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	<73	<73	<77	<78	<77	<81	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		VAP-A18-CP144 11 - 12 05/17/12	VAP-A18-CP144 20 - 21 05/17/12	VAP-A18-CP144 27 - 28 05/17/12	VAP-A18-CP144 37 - 38 05/17/12	VAP-A18-CP144 47 - 48 05/17/12	VAP-A18-CP144 57 - 58 05/17/12	VAP-A19-HJ150 1 - 2 06/06/12	VAP-A19-HJ150 7 - 8 06/06/12	VAP-A19-HJ150 18 - 19 06/06/12	VAP-A19-HJ150 24 - 25 06/06/12	VAP-A19-HJ150 31 - 32 06/07/12	VAP-A20-FL0 23 - 24 06/07/12	VAP-A20-FL0 34 - 35 06/08/12	VAP-A20-FL0 43 - 44 06/08/12
Semivolatile Organics															
1-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
2,4-Dichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
2,4-Dimethylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
2,4-Dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40 J	<40	<40	<30	<30
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
2-Chloronaphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
2-Chlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
2-Methylnaphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
2-Methylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
2-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
2-Nitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
3&4-Methylphenol	ug/kg	<70	<70	<70	<70	<70	<70	<200 [<300]	<80	<70	<70	<70	<70	<70	<70
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
Naphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
3-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
4-Chloroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40 J	<40 J	<30 J	<30 J
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
4-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
4-Nitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
Anthracene	ug/kg	<40	50	<40	<40	<40	<40	100 [<100]	<40	<40	<40	<40	<40	<30	<30
Acenaphthene	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
Acenaphthylene	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
Acetophenone	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
Atrazine	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
Benzaldehyde	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
Benzo(a)anthracene	ug/kg	<40	170	<40	<40	<40	<40	530 J [<100 J]	<40	<40	<40	<40	<40	<30	<30
Benzo(a)pyrene	ug/kg	<40	140	<40	<40	<40	<40	570 J [<100 J]	<40	<40	<40	<40	<40	<30	<30
Benzo(b)fluoranthene	ug/kg	<40	260 J	<40	<40	<40	<40	1,110 J [<100 J]	<40	<40	<40	<40	<40	<30	<30
Benzo(g,h,i)perylene	ug/kg	<40	80	<40	<40	<40	<40	310 J [<100]	<40	<40	<40	<40	<40	<30	<30
Benzo(k)fluoranthene	ug/kg	<40	270 J	<40	<40	<40	<40	1,090 J [<100 J]	<40	<40	<40	<40	<40	<30	<30
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70	80	<70	<70	<70	<70	<200 [<300]	190	<70	<70	<70	90	90	<70
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
Caprolactam	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
Carbazole	ug/kg	<40	40	<40	<40	<40	<40	100 [<100]	<40	<40	<40	<40	<40	<30	<30
Chrysene	ug/kg	<40	190	<40	<40	<40	<40	590 J [<100 J]	<40	<40	<40	<40	<40	<30	<30
Dibenz(a,h)anthracene	ug/kg	<70	<70	<70	<70	<70	<70	<200 [<300]	<80	<70	<70	<70	<70	<70	<70
Dibenzofuran	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
Diethyl phthalate	ug/kg	<70	<70	<70	<70	<70	<70	<200 [<300]	<80	<70	<70	<70	<70	<70	<70
Dimethyl phthalate	ug/kg	<170 B	<290 B	<260 B	<240 B	<140 B	<160 B	<90 [<100]	<70 B	<80 B	<50 B	<110 B	<80 B	<60 B	<180 B
Di-n-butylphthalate (DBP)	ug/kg	<70	<70	<70	<70	<70	<70	<200 [<300]	<80	<70	<70	<70	<70	<70	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<70	<70	<70	<70	<70	<70	<200 [<300]	<80	<70	<70	<70	<70	<70	<70
Fluoranthene	ug/kg	<40	450	<40	<40	<40	<40	1,290 J [<100 J]	<40	<40	<40	<40	<40	<30	<30
Fluorene	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
Hexachlorobenzene	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
Hexachlorobutadiene	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
Hexachlorocyclopentadiene	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
Hexachloroethane	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
Indeno(1,2,3-cd)pyrene	ug/kg	<40	70	<40	<40	<40	<40	290 J [<100]	<40	<40	<40	<40	<40	<30	<30
Isophorone	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
Nitrobenzene	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
N-Nitrosodiphenylamine	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
Pentachlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
Phenanthrene	ug/kg	<40	260	<40	<40	<40	<40	740 J [<100 J]	<40	<40	<40	<40	<40	<30	<30
Phenol	ug/kg	<40	<40	<40	<40	<40	<40	<90 [<100]	<40	<40	<40	<40	<40	<30	<30
Pyrene	ug/kg	<40	370	<40	<40	<40	<40	1,090 J [<100 J]	<40	<40	<40	<40	<40	<30	<30

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:		VAP-A18-CP144 11 - 12 05/17/12	VAP-A18-CP144 20 - 21 05/17/12	VAP-A18-CP144 27 - 28 05/17/12	VAP-A18-CP144 37 - 38 05/17/12	VAP-A18-CP144 47 - 48 05/17/12	VAP-A18-CP144 57 - 58 05/17/12	VAP-A19-HJ150 1 - 2 06/06/12	VAP-A19-HJ150 7 - 8 06/06/12	VAP-A19-HJ150 18 - 19 06/06/12	VAP-A19-HJ150 24 - 25 06/06/12	VAP-A19-HJ150 31 - 32 06/07/12	VAP-A20-FL0 23 - 24 06/07/12	VAP-A20-FL0 34 - 35 06/08/12	VAP-A20-FL0 43 - 44 06/08/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.21 [<0.23]	<0.21	<0.20	<0.21	<0.21	<0.21	<0.20	<0.20
Arsenic	mg/kg	0.98	1.49	0.81	1.98	1.64	1.80	48.1 [52] ^{abfi}	2.18	2.65	1.89	1.61	1.30	3.16	1.24
Barium	mg/kg	17.1	21.5	17.4	4.52	9.04	5.22	273 [318] ⁱ	45.1	19.1	14.4	3.80	12.3	4.29	2.85
Beryllium	mg/kg	<0.20	0.25	<0.20	<0.20	<0.20	<0.20	3.29 [3.91]	0.25	<0.20	<0.21	<0.21	<0.21	<0.20	<0.20
Boron	mg/kg	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	59.6 [70.8] ^a	<4.2	<4.0	<4.2	<4.2	<4.2	<4.0	<4.0
Cadmium	mg/kg	<0.10	0.11	<0.10	0.18	<0.10	<0.10	0.32 [0.38]	0.12	<0.10	<0.10	<0.10	0.11	<0.10	<0.10
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	2.31	7.49	1.66	0.96	1.43	1.04	21.4 [24.5] ⁱ	10.3	3.34	2.11	0.84	3.22	3.35	0.74
Cobalt	mg/kg	1.88	5.52	2.72	1.20	1.67	1.08	8.03 [9.13] ^{abi}	3.75	2.94	2.00	0.94	2.67	1.47	0.87
Copper	mg/kg	2.60	15.2	2.56	3.38	4.45	3.28	41.6 [46.9] ⁱ	8.06	8.47	5.74	2.40	7.65	4.96	1.77
Lead	mg/kg	2.67	6.36	2.48	2.46	2.32	2.17	15.1 [17.1]	5.73	3.93	3.16	1.50	3.53	3.30	1.38
Manganese	mg/kg	202	312	266	179	208	156	85.2 [84.4]	442 ^{abi}	247	213	98.4	222	121	111
Mercury	mg/kg	0.0089	0.0143	0.0054	<0.0053	0.0061	<0.0055	0.0400 [0.0629]	0.0250	0.0089	0.0058	0.0059	0.0091	<0.0051	<0.0051
Nickel	mg/kg	5.85	15.3	6.64	4.55	4.98	3.20	16.7 [18.7]	9.23	8.68	7.21	2.93	8.56	5.34	3.71
Selenium	mg/kg	0.21	<0.20	<0.20	0.20	<0.20	<0.20	6.50 [7.82] ^{abi}	<0.21	0.21	<0.21	<0.21	<0.21	<0.20	<0.20
Silver	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10 [<0.11]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Thallium	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	1.03 [1.24]	<0.21	<0.20	<0.21	<0.21	<0.21	<0.20	<0.20
Vanadium	mg/kg	3.73	9.42	2.59	1.92	2.92	1.85	70.0 [81]	11.1	5.87	3.74	1.71	5.26	2.53	1.26
Zinc	mg/kg	5.62	20.9	6.94	27.6	14.4	18.9	25.2 [30]	13.5	13.5	10.4	5.61	15.5	6.63	10.0
Miscellaneous															
Flash point (closed cup)	mm/sec	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total solids	%	90	90	91	95	94	89	77 [71]	88	92	89	90	91	98	98

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	VAP-A20-FL0 47 - 48 06/08/12
Volatile Organics		
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	NA
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	NA
1,2-Dichlorobenzene	ug/kg	NA
1,4-Dichlorobenzene	ug/kg	NA
2-Hexanone	ug/kg	NA
Acetone	ug/kg	NA
Bromodichloromethane	ug/kg	NA
Bromoform	ug/kg	NA
Bromomethane (Methyl bromide)	ug/kg	NA
Carbon disulfide	ug/kg	NA
Carbon tetrachloride	ug/kg	NA
Chlorobenzene	ug/kg	NA
Chloroform (Trichloromethane)	ug/kg	NA
Chloromethane (Methyl chloride)	ug/kg	NA
cis-1,3-Dichloropropene	ug/kg	NA
Dichlorodifluoromethane (CFC-12)	ug/kg	NA
Methyl acetate	ug/kg	NA
Methylene chloride	ug/kg	NA
Styrene	ug/kg	NA
trans-1,3-Dichloropropene	ug/kg	NA
Trichlorofluoromethane (CFC-11)	ug/kg	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	NA
1,4-Dioxane	ug/kg	NA
1,1,1-Trichloroethane	ug/kg	NA
1,1,2,2-Tetrachloroethane	ug/kg	NA
1,1,2-Trichloroethane	ug/kg	NA
1,1-Dichloroethane	ug/kg	NA
1,1-Dichloroethene	ug/kg	NA
1,2-Dichloroethane	ug/kg	NA
cis-1,2-Dichloroethene	ug/kg	NA
trans-1,2-Dichloroethene	ug/kg	NA
Trichloroethene	ug/kg	NA
Tetrachloroethene	ug/kg	NA
Vinyl chloride	ug/kg	NA
Chloroethane	ug/kg	NA
Benzene	ug/kg	NA
Ethylbenzene	ug/kg	NA
Toluene	ug/kg	NA
o-Xylene	ug/kg	NA
m&p-Xylene	ug/kg	NA
Xylene (total)	ug/kg	NA
Methyl tert butyl ether (MTBE)	ug/kg	NA
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	NA
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	NA
1,2,4-Trichlorobenzene	ug/kg	NA
1,2,4-Trimethylbenzene	ug/kg	NA
1,3,5-Trimethylbenzene	ug/kg	NA
1,2-Dichloropropane	ug/kg	NA
1,3-Dichlorobenzene	ug/kg	NA
Cyclohexane	ug/kg	NA
Methyl cyclohexane	ug/kg	NA
Dibromochloromethane	ug/kg	NA
Isopropyl benzene	ug/kg	NA
Naphthalene	ug/kg	NA

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected: QC Status:	Units	VAP-A20-FL0 47 - 48 06/08/12
Semivolatile Organics		
1-Methylnaphthalene	ug/kg	NA
2-Methyl-4,6-dinitrophenol	ug/kg	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	<40
2,4,6-Trichlorophenol	ug/kg	<40
2,4-Dichlorophenol	ug/kg	<40
2,4,5-Trichlorophenol	ug/kg	<40
2,4-Dimethylphenol	ug/kg	<40
2,4-Dinitrophenol	ug/kg	<40
2,4-Dinitrotoluene	ug/kg	<40
2,6-Dinitrotoluene	ug/kg	<40
2-Chloronaphthalene	ug/kg	<40
2-Chlorophenol	ug/kg	<40
2-Methylnaphthalene	ug/kg	<40
2-Methylphenol	ug/kg	<40
2-Nitroaniline	ug/kg	<40
2-Nitrophenol	ug/kg	<40
3&4-Methylphenol	ug/kg	<70
3,3'-Dichlorobenzidine	ug/kg	<40
Naphthalene	ug/kg	<40
3-Nitroaniline	ug/kg	<40
4-Bromophenyl phenyl ether	ug/kg	<40
4-Chloro-3-methylphenol	ug/kg	<40
4-Chloroaniline	ug/kg	<40 J
4-Chlorophenyl phenyl ether	ug/kg	<40
4-Nitroaniline	ug/kg	<40
4-Nitrophenol	ug/kg	<40
Anthracene	ug/kg	<40
Acenaphthene	ug/kg	<40
Acenaphthylene	ug/kg	<40
Acetophenone	ug/kg	<40
Atrazine	ug/kg	<40
Benzaldehyde	ug/kg	<40
Benzo(a)anthracene	ug/kg	<40
Benzo(a)pyrene	ug/kg	<40
Benzo(b)fluoranthene	ug/kg	<40
Benzo(g,h,i)perylene	ug/kg	<40
Benzo(k)fluoranthene	ug/kg	<40
Biphenyl (1,1'-Biphenyl)	ug/kg	<40
bis(2-Chloroethoxy)methane	ug/kg	<40
bis(2-Chloroethyl)ether	ug/kg	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70
Butyl benzylphthalate (BBP)	ug/kg	<40
Caprolactam	ug/kg	<40
Carbazole	ug/kg	<40
Chrysene	ug/kg	<40
Dibenz(a,h)anthracene	ug/kg	<70
Dibenzofuran	ug/kg	<40
Diethyl phthalate	ug/kg	<70
Dimethyl phthalate	ug/kg	<80 B
Di-n-butylphthalate (DBP)	ug/kg	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<70
Fluoranthene	ug/kg	<40
Fluorene	ug/kg	<40
Hexachlorobenzene	ug/kg	<40
Hexachlorobutadiene	ug/kg	<40
Hexachlorocyclopentadiene	ug/kg	<40
Hexachloroethane	ug/kg	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<40
Isophorone	ug/kg	<40
Nitrobenzene	ug/kg	<40
N-Nitrosodi-n-propylamine	ug/kg	<40
N-Nitrosodiphenylamine	ug/kg	<40
Pentachlorophenol	ug/kg	<40
Phenanthrene	ug/kg	<40
Phenol	ug/kg	<40
Pyrene	ug/kg	<40

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

	Location ID:	Units	VAP-A20-FL0
	Sample Depth(ft):		47 - 48
	Date Collected:		06/08/12
	QC Status:		
PCBs			
Aroclor-1016 (PCB-1016)		ug/kg	NA
Aroclor-1221 (PCB-1221)		ug/kg	NA
Aroclor-1232 (PCB-1232)		ug/kg	NA
Aroclor-1242 (PCB-1242)		ug/kg	NA
Aroclor-1248 (PCB-1248)		ug/kg	NA
Aroclor-1254 (PCB-1254)		ug/kg	NA
Aroclor-1260 (PCB-1260)		ug/kg	NA
Total PCBs		ug/kg	NA
Inorganics			
Antimony		mg/kg	<0.20
Arsenic		mg/kg	2.17
Barium		mg/kg	10.4
Beryllium		mg/kg	<0.20
Boron		mg/kg	<4.0
Cadmium		mg/kg	<0.10
Chromium VI (hexavalent)		mg/kg	NA
Chromium		mg/kg	2.79
Cobalt		mg/kg	2.49
Copper		mg/kg	6.27
Lead		mg/kg	3.01
Manganese		mg/kg	226
Mercury		mg/kg	0.0057
Nickel		mg/kg	7.26
Selenium		mg/kg	0.25
Silver		mg/kg	<0.10
Thallium		mg/kg	<0.20
Vanadium		mg/kg	5.00
Zinc		mg/kg	12.2
Miscellaneous			
Flash point (closed cup)		mm/sec	NA
Total solids		%	94

TABLE 14
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Soil Sample Analytical Results

Table Notes:

(1) Adjusted by a factor of 0.43 for a 100-acre source area.

-- Shading indicates result exceeding one or more MDEQ Part 201 Generic Cleanup Criteria and Screening Levels, Dated March 25, 2011

-- Bold fonts represent data where detections were noted above the MDL but below MDEQ Part 201 Generic Cleanup Criteria

-- Data shown in [] represent duplicate sample analytical results.

mg/kg - milligrams per kilogram

µg/kg - micrograms per kilogram

* - Sample was analyzed in on-site lab with instruments calibrated to screening mode. This data was not validated

** - Sample collected by others and analytical reports provided to ARCADIS. This data was not validated

^a - Sample exceeds Residential Drinking Water Protection Criteria

^b - Sample exceeds Groundwater Surface Water Interface Protection Criteria

^c - Sample exceeds Groundwater Contact Protection Criteria

^d - Sample exceeds Non-Residential Soil Volatilization to Indoor Air Criteria

^e - Sample exceeds Non-Residential Infinite Source Volatile Soil Inhalation Criteria

^f - Sample exceeds Non-Residential Direct Contact Criteria

^g - Sample exceeds Non-Residential Particulate Soil Inhalation Criteria

^h - Sample exceeds Soil Saturation Levels

ⁱ - Sample exceeds Statewide Background Default Levels

MDEQ Criteria Footnotes: (as revised September 28, 2012)

-- = Not listed in MDEQ Criteria Tables.

ID = Insufficient data to develop a criterion.

NA = Not available.

NLL = Not likely to leach.

NLV = Not likely to volatilize.

C = Value presented is a screening level based on the chemical-specific generic soil saturation concentration (C_{sat}) since the calculated risk-based criterion is greater than C_{sat}.

D = Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb).

G = Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. A hardness value of 257 mg/L was used.

M = Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.

T = Refer to the federal Toxic Substances Control Act (TSCA), 40 C.F.R. §761, Subpart D and 40 C.F.R. §761, Subpart G, to determine the applicability of TSCA cleanup standards.

W = Concentrations of trihalomethanes in soil shall be added together to determine compliance with the drinking water protection criterion of 1,600 µg/kg.

X = The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source.

DD = Hazardous substance causes developmental effects. Residential direct contact criteria are protective of both prenatal and postnatal exposure. Nonresidential direct contact criteria are protective for a pregnant adult receptor.

Lab Data Qualifiers:

B = Compounds also found in associated method blank

D = Compound quantified using a secondary dilution

E = Analyte exceeds calibration range

I = Matrix interference with internal standard

J = The compound/constituent was positively identified; however, the associated numerical value is an estimated concentration only.

K = Elevated reporting limits due to low total solids

N = Normal Sample

p = Benzo(b)fluoranthene and Benzo(k)fluoranthene integrated as one peak

R = Rejected

S = Surrogate recovery outside of control limits

T = No correction for Total Solids

UJ = The analyte was not detected above the quantitation limits, however the quantitation limits is estimated

U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

X = Elevated reporting limit due to matrix interference

z = Sample preserved in the lab

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		Residential Drinking Water Criteria ^(a)	Groundwater Surface Water Interface Criteria ^(b)	Groundwater Contact Criteria ^(c)	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria	Water Solubility Levels ^(e)	Flammability and Explosivity Screening Levels ^(f)	Acute Inhalation Screening Levels ^(g)	Non-Residential Groundwater Concentrations for Vapor Intrusion ^(h)	CH-14-RO 7 - 12 08/22/11	CH-14-RO 7 - 12 01/03/13	MW-01(3) 55 - 65 10/19/11	MW-01(3) 55 - 65 12/20/12	MW-02 (UNK-12) 11 - 16 10/19/11	MW-02 (UNK-12) 11 - 16 01/03/13
Units															
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.2(A)	ID	390	1,200(S)	1,230	NA	ID	280	<0.05 [<u><0.05</u>]	<1 [<u><1</u>]	<0.05	<1	<0.05	<1
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.05(A)	5.7(X)	25	15,000	4.20E+06	ID	ID	11	<0.02 [<u><0.02</u>]	<1 [<u><1</u>]	<0.02	<1	<0.02	<1
1,2-Dichlorobenzene	ug/L	600(A)	13	1.60E+05(S)	1.60E+05(S)	1.56E+05	NA	1.60E+05(S)	32,000	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
1,4-Dichlorobenzene	ug/L	75(A)	17	6,400	74,000(S)	73,800	NA	ID	250	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
2-Hexanone	ug/L	1,000	ID	5.20E+06	8.70E+06	1.60E+07	NA	ID	87,000	<10 [<u><10</u>]	<10 [<u><10</u>]	<10	<10	<10 J	<10
Acetone	ug/L	730	1,700	3.10E+07	1.00E+09(D,S)	1.00E+09	1.50E+07	1.00E+09(D)	3.40E+07	<10 [<u><10</u>]	<10 [<u><10</u>]	<10 J	<10	<10 J	<10
Bromodichloromethane	ug/L	80(A,W)	ID	14,000	37,000	6.74E+06	ID	ID	110	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
Bromoform	ug/L	80(A,W)	ID	1.40E+05	3.10E+06(S)	3.10E+06	ID	ID	7,200	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
Bromomethane (Methyl bromide)	ug/L	10	35	70,000	9,000	1.45E+07	ID	ID	140	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
Carbon disulfide	ug/L	800	ID	1.20E+06(S)	5.50E+05	1.19E+06	13,000	ID	9,900	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
Carbon tetrachloride	ug/L	5(A)	45(X)	4,600	2,400	7.93E+05	ID	96,000	26	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
Chlorobenzene	ug/L	100(A)	25	86,000	4.70E+05(S)	4.72E+05	1.60E+05	ID	4,600	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
Chloroform (Trichloromethane)	ug/L	80(A,W)	350	1.50E+05	1.80E+05	7.92E+06	ID	ID	480	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
Chloromethane (Methyl chloride)	ug/L	260	ID	4.90E+05	45,000	6.34E+06	36,000	2.10E+05	750	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	8.5	9(X)	5,500	26,000	2.80E+06	1.30E+05	ID	300	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
Dichlorodifluoromethane (CFC-12)	ug/L	1,700	ID	3.00E+05(S)	3.00E+05(S)	3.00E+05	ID	ID	29,000	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
Methyl acetate	ug/L	--	--	--	--	--	--	--	--	<10 [<u><10</u>]	<10 [<u><10</u>]	<10	<10	<10	<10
Methylene chloride	ug/L	5(A)	1,500(X)	2.20E+05	1.40E+06	1.70E+07	ID	ID	2,800	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
Styrene	ug/L	100(A)	80(X)	9,700	3.10E+05(S)	3.10E+05	1.40E+05	3.10E+05(S)	2,700	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	8.5	9(X)	5,500	26,000	2.80E+06	1.30E+05	ID	300	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
Trichlorofluoromethane (CFC-11)	ug/L	2,600	NA	1.10E+06(S)	1.10E+06(S)	1.10E+06	ID	1.10E+06(S)	1.20E+05	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
Trifluorotrichloroethane (Freon 113)	ug/L	1.70E+05(S)	32	1.70E+05(S)	1.70E+05(S)	1.70E+05	ID	1.70E+05(S)	30,000	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
1,4-Dioxane	ug/L	85	2,800(X)	1.70E+06	NLV	9.00E+08	1.40E+08	ID	--	<5 [<u><5</u>]	<5 [<u><5</u>]	<5	<5	<5	<5
1,1,1-Trichloroethane	ug/L	200(A)	89	1.30E+06(S)	1.30E+06(S)	1.33E+06	ID	1.30E+06(S)	12,000	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	4	<1
1,1,2,2-Tetrachloroethane	ug/L	8.5	78(X)	4,700	77,000	2.97E+06	ID	ID	200	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	5(A)	330(X)	21,000	1.10E+05	4.42E+06	NA	ID	320	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	880	740	2.40E+06	2.30E+06	5.06E+06	3.80E+05	ID	18,000	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	2	1
1,1-Dichloroethene	ug/L	7(A)	130	11,000	1,300	2.25E+06	97,000	1.40E+05	1,600	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	5(A)	360(X)	19,000	59,000	8.52E+06	2.50E+06	ID	140	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	70(A)	620	2.00E+05	2.10E+05	3.50E+06	5.30E+05	ID	1,700	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
trans-1,2-Dichloroethene	ug/L	100(A)	1,500(X)	2.20E+05	2.00E+05	6.30E+06	2.30E+05	ID	1,500	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
Trichloroethene	ug/L	5(A)	200(X)	22,000	4,900	1.10E+06	ID	1.10E+06(S)	41	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
Tetrachloroethene	ug/L	5(A)	60(X)	12,000	1.70E+05	2.00E+05	ID	2.00E+05(S)	460	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
Vinyl chloride	ug/L	2(A)	13(X)	1,000	13,000	2.76E+06	33,000	ID	35	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
Chloroethane	ug/L	430	1,100(X)	4.40E+05	5.70E+06(S)	5.74E+06	1.10E+05	ID	1.80E+05	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
Benzene	ug/L	5(A)	200(X)	11,000	35,000	1.75E+06	68,000	67,000	92	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
Ethylbenzene	ug/L	74(E)	18	1.70E+05(S)	1.70E+05(S)	1.69E+05	43,000	1.70E+05(S)	1,700	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
Toluene	ug/L	790(E)	270	5.30E+05(S)	5.30E+05(S)	5.26E+05	61,000	ID	1.50E+05	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
o-Xylene	ug/L	280(E)	41	1.90E+05(S)	1.90E+05(S)	1.86E+05	70,000	1.90E+05(S)	10,000d	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
m&p-Xylene	ug/L	280(E)	41	1.90E+05(S)	1.90E+05(S)	1.86E+05	70,000	1.90E+05(S)	10,000d	<2 [<u><2</u>]	<2 [<u><2</u>]	<2	<2	<2	<2
Xylene (total)	ug/L	280(E)	41	1.90E+05(S)	1.90E+05(S)	1.86E+05	70,000	1.90E+05(S)	10,000d	<3 [<u><3</u>]	<3 [<u><3</u>]	<3	<3	<3	<3
Methyl tert butyl ether (MTBE)	ug/L	40(E)	7,100(X)	6.10E+05	4.70E+07(S)	4.68E+07	ID	ID	1.00E+06	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	13,000	2,200	2.40E+08(S)	2.40E+08(S)	2.40E+08	ID	2.40E+08(S)	1.80E+07	<10 [<u><10</u>]	<10 [<u><10</u>]	<10	<10	<10	<10
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	1,800	ID	1.30E+07	2.00E+07(S)	2.00E+07	ID	2.00E+07(S)	4.40E+06	<10 [<u><10</u>]	<10 [<u><10</u>]	<10	<10	<10	<10
1,2,4-Trichlorobenzene	ug/L	70(A)	99(X)	19,000	3.00E+05(S)	3.00E+05	NA	3.00E+05(S)	53,000	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	63(E)	17	56,000(S)	56,000(S)	55,890	56,000(S)	ID	7,300	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/L	72(E)	45	61,000(S)	61,000(S)	61,150	ID	ID	5,100	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/L	5(A)	230(X)	16,000	36,000	2.80E+06	5.50E+05	2.80E+06(S)	290	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
1,3-Dichlorobenzene	ug/L	6.6	28	2,000	41,000	1.11E+05	ID	ID	230	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
Cyclohexane	ug/L	--	--	--	--	--	--	--	8,100	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
Methyl cyclohexane	ug/L	--	--	--	--	--	--	--	--	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
Dibromochloromethane	ug/L	80(A,W)	ID	18,000	1.10E+05	2.60E+06	ID	ID	220	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
Isopropyl benzene	ug/L	800	28	56,000(S)	56,000(S)	56,000	29,000	ID	35	<1 [<u><1</u>]	<1 [<u><1</u>]	<1	<1	<1	<1
Naphthalene	ug/L	520	11	31,000(S)	31,000(S)	31,000	NA	31,000(S)	800	NA	NA	NA	NA	NA	NA

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		Residential Drinking Water Criteria ^(a)	Groundwater Surface Water Interface Criteria ^(b)	Groundwater Contact Criteria ^(c)	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria	Water Solubility Levels ^(e)	Flammability and Explosivity Screening Levels ^(f)	Acute Inhalation Screening Levels ^(g)	Non-Residential Groundwater Concentrations for Vapor Intrusion ^(h)	CH-14-RO 7 - 12 08/22/11	CH-14-RO 7 - 12 01/03/13	MW-01(3) 55 - 65 10/19/11	MW-01(3) 55 - 65 12/20/12	MW-02 (UNK-12) 11 - 16 10/19/11	MW-02 (UNK-12) 11 - 16 01/03/13
Units															
Semivolatile Organics															
1-Methylnaphthalene	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/L	20(M)	NA	9,500	NLV	2.00E+05	ID	ID	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) et	ug/L	--	--	--	--	--	--	--	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
2,4,6-Trichlorophenol	ug/L	120	5	10,000	NLV	8.00E+05	ID	ID	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
2,4-Dichlorophenol	ug/L	73	11	48,000	NLV	4.50E+06	ID	ID	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
2,4,5-Trichlorophenol	ug/L	730	NA	1.70E+05	NLV	1.20E+06	ID	ID	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
2,4-Dimethylphenol	ug/L	370	380	5.20E+05	NLV	7.87E+06	ID	ID	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
2,4-Dinitrophenol	ug/L	--	--	--	--	--	--	--	--	<1 [<1]	<1 [<1]	<1	<1	<1	<1
2,4-Dinitrotoluene	ug/L	7.7	NA	8,600	NLV	2.70E+05	ID	ID	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
2,6-Dinitrotoluene	ug/L	--	--	--	--	--	--	--	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
2-Chloronaphthalene	ug/L	1,800	NA	6,700(S)	ID	6,740	ID	ID	ID	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
2-Chlorophenol	ug/L	45	18	94,000	1.10E+06	2.20E+07	ID	ID	3.30E+05	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
2-Methylnaphthalene	ug/L	260	19	25,000(S)	25,000(S)	24,600	ID	ID	3,900	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
2-Methylphenol	ug/L	370	30(M)	8.10E+05	NLV	2.80E+07	NA	ID	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
2-Nitroaniline	ug/L	--	--	--	--	--	--	--	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
2-Nitrophenol	ug/L	20	ID	79,000	NLV	2.50E+06	ID	ID	ID	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
3&4-Methylphenol	ug/L	370	30(M)	8.10E+05	NLV	2.80E+07	NA	ID	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
3,3'-Dichlorobenzidine	ug/L	1.1	0.3(M)	180	NLV	3,110	ID	ID	--	<0.05 J [<0.05]	NA	<0.05	NA	<0.05	NA
Naphthalene	ug/L	520	11	31,000(S)	31,000(S)	31,000	NA	31,000(S)	800	<1 [<1]	<1 [<1]	<1	<1	<1	<1
3-Nitroaniline	ug/L	--	--	--	--	--	--	--	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
4-Bromophenyl phenyl ether	ug/L	--	--	--	--	--	--	--	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
4-Chloro-3-methylphenol	ug/L	150	7.4	79,000	NLV	3.90E+06	ID	ID	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
4-Chloroaniline	ug/L	--	--	--	--	--	--	--	--	<2 J [<2 J]	<1 [<1]	<2	<1	<2	<1 J
4-Chlorophenyl phenyl ether	ug/L	--	--	--	--	--	--	--	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
4-Nitroaniline	ug/L	--	--	--	--	--	--	--	--	<1 [<1]	<1 [<1]	<1	<1	<1	<1
4-Nitrophenol	ug/L	--	--	--	--	--	--	--	--	<1 [<1]	<1 [<1]	<1	<1	<1	<1
Anthracene	ug/L	43(S)	ID	43(S)	43(S)	43.4	ID	ID	3.70E+06	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
Acenaphthene	ug/L	1,300	38	4,200(S)	4,200(S)	4,240	ID	ID	2.30E+05	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
Acenaphthylene	ug/L	52	ID	3,900(S)	3,900(S)	3,930	ID	ID	62,000	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
Acetophenone	ug/L	1,500	ID	6.10E+06(S)	6.10E+06(S)	6.10E+06	ID	ID	9.60E+06	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
Atrazine	ug/L	3(A)	7.3	5,400	NLV	70,000	ID	ID	--	<1 [<1]	<1 [<1]	<1	<1	<1	<1
Benzaldehyde	ug/L	--	--	--	--	--	--	--	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
Benzo(a)anthracene	ug/L	2.1	ID	9.4(S,AA)	NLV	9.4	ID	ID	ID	<1 [<1]	<1 [<1]	<1	<1	<1	<1
Benzo(a)pyrene	ug/L	5(A)	ID	1(M,AA)	NLV	1.62	ID	ID	--	<1 [<1]	<1 [<1]	<1	<1	<1	<1
Benzo(b)fluoranthene	ug/L	1.5(S,AA)	ID	1.5(S,AA)	ID	1.5	ID	ID	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	1(M); 0.26(S)	ID	1(M,AA); 0.26(S)	NLV	0.26	ID	ID	--	<1 [<1]	<1 [<1]	<1	<1	<1	<1
Benzo(k)fluoranthene	ug/L	1(M); 0.8(S)	NA	1(M,AA); 0.8(S)	NLV	0.8	ID	ID	--	<1 [<1]	<1 [<1]	<1	<1	<1	<1
Biphenyl (1,1-Biphenyl)	ug/L	--	--	--	--	--	--	--	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
bis(2-Chloroethoxy)methane	ug/L	--	--	--	--	--	--	--	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
bis(2-Chloroethyl)ether	ug/L	2	1(M)	5,700	2.10E+05	1.72E+07	1.70E+07(S)	1.70E+07(S)	750	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	6(A)	25	320(AA)	NLV	340	NA	340(S)	--	<2 [<2]	<1 [<1]	<2	<1	<2	<1
Butyl benzylphthalate (BBP)	ug/L	1,200	67(X)	2,700(S)	NLV	2,690	ID	ID	--	<1 [<1]	<1 [<1]	<1	<1	<1	<1
Caprolactam	ug/L	5,800	NA	3.90E+08	NLV	5.25E+09	NA	1.00E+09(D)	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
Carbazole	ug/L	85	10(M)	7,400	NLV	7,480	ID	ID	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
Chrysene	ug/L	1.6(S)	ID	1.6(S,AA)	ID	1.6	ID	ID	--	<1 [<1]	<1 [<1]	<1	<1	<1	<1
Dibenz(a,h)anthracene	ug/L	2(M)	ID	2(M,AA)	NLV	2.49	ID	ID	--	<1 [<1]	<2 [<2]	<1	<2	<1	<2
Dibenzofuran	ug/L	ID	4	ID	10,000(S)	10,000	ID	ID	96	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
Diethyl phthalate	ug/L	5,500	110	1.10E+06(S)	NLV	1.08E+06	NA	ID	--	<2 J [<2 J]	<1 [<1]	<2	<1	<2	<1
Dimethyl phthalate	ug/L	73,000	NA	4.20E+06(S)	NLV	4.19E+06	NA	ID	--	<2 J [<2 J]	<1 [<1]	<2	<1	<2	<1
Di-n-butylphthalate (DBP)	ug/L	880	9.7	11,000(S)	NLV	11,200	NA	ID	--	<1 [<1]	<1 [<1]	1	<1	<1	<1
Di-n-octyl phthalate (DnOP)	ug/L	130	ID	400	NLV	3,000	ID	ID	--	<1 [<1]	<1 [<1]	<1	<1	<1	<1
Fluoranthene	ug/L	210(S)	1.6	210(S)	210(S)	206	ID	ID	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
Fluorene	ug/L	880	12	2,000(S)	2,000(S)	1,980	ID	ID	3.00E+05	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
Hexachlorobenzene	ug/L	1(A)	0.2(M)	4.6	3,000	6,200	ID	ID	5.4	<0.05 J [<0.05]	NA	<0.05	NA	<0.05	NA
Hexachlorobutadiene	ug/L	15	0.053	400	3,200(S)	3,230	ID	ID	19	<1 [<1 J]	<1 [<1]	<1	<1	<1	<1
Hexachlorocyclopentadiene	ug/L	50(A)	ID	1,600	420	1,800	ID	ID	50d	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
Hexachloroethane	ug/L	7.3	6.7(X)	1,900	50,000(S)	50,000	ID	ID	180	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
Indeno(1,2,3-cd)pyrene	ug/L	2(M); 0.022(S)	ID	2(M,AA); 0.022(S)	NLV	0.022	ID	ID	--	<1 [<1]	<1 [<1]	<1	<1	<1	<1
Isophorone	ug/L	770	1,300(X)	9.90E+05	NLV	1.20E+07	ID	1.20E+07(S)	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
Nitrobenzene	ug/L	3.4	180(X)	11,000	5.50E+05	2.09E+06	NA	ID	4,400	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
N-Nitrosodi-n-propylamine	ug/L	5(M)	NA	360	NLV	9.89E+06	ID	ID	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
N-Nitrosodiphenylamine	ug/L	270	NA	35,000(S)	NLV	35,100	ID	ID	--	<1 [<1]	<1 [<1]	<1	<1	<1	<1
Pentachlorophenol	ug/L	1(A)	1.8(G,X)	200	NLV	1.85E+06	ID	ID	--	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
Phenanthrene	ug/L	52	2(M)	1,000(S)	1,000(S)	1,000	ID	ID	480	<1 J [<1 J]	<1 [<1]	<1	<1	<1	<1
Phenol	ug/L	4,400	450	2.90E+07	NLV	8.28E+07	NA	ID	--	<1 [<1]	<1 [<1]	<1	<1	<1	<1
Pyrene	ug/L	140(S)	ID	140(S)	140(S)	135	ID	ID	1.70E+06	<1 [<1]	<1 [<1]	<1	<1	<1	<1

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		Residential Drinking Water Criteria ^(a)	Groundwater Surface Water Interface Criteria ^(b)	Groundwater Contact Criteria ^(c)	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria	Water Solubility Levels ^(e)	Flammability and Explosivity Screening Levels ^(f)	Acute Inhalation Screening Levels ^(g)	Non-Residential Groundwater Concentrations for Vapor Intrusion ^(h)	CH-14-RO 7 - 12 08/22/11	CH-14-RO 7 - 12 01/03/13	MW-01(3) 55 - 65 10/19/11	MW-01(3) 55 - 65 12/20/12	MW-02 (UNK-12) 11 - 16 10/19/11	MW-02 (UNK-12) 11 - 16 01/03/13
Units															
Semivolatile Organics-Filtered															
2-Methyl-4,6-dinitrophenol	ug/L	20(M)	NA	9,500	NLV	2.00E+05	ID	ID	--	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	120	5	10,000	NLV	8.00E+05	ID	ID	--	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	73	11	48,000	NLV	4.50E+06	ID	ID	--	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	730	NA	1.70E+05	NLV	1.20E+06	ID	ID	--	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	370	380	5.20E+05	NLV	7.87E+06	ID	ID	--	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	7.7	NA	8,600	NLV	2.70E+05	ID	ID	--	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	1,800	NA	6,700(S)	ID	6,740	ID	ID	ID	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	45	18	94,000	1.10E+06	2.20E+07	ID	ID	3.30E+05	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	260	19	25,000(S)	25,000(S)	24,600	ID	ID	3,900	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	370	30(M)	8.10E+05	NLV	2.80E+07	NA	ID	--	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	20	ID	79,000	NLV	2.50E+06	ID	ID	ID	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	370	30(M)	8.10E+05	NLV	2.80E+07	NA	ID	--	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	520	11	31,000(S)	31,000(S)	31,000	NA	31,000(S)	800	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	150	7.4	79,000	NLV	3.90E+06	ID	ID	--	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	43(S)	ID	43(S)	43(S)	43.4	ID	ID	3.70E+06	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	1,300	38	4,200(S)	4,200(S)	4,240	ID	ID	2.30E+05	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	52	ID	3,900(S)	3,900(S)	3,930	ID	ID	62,000	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	1,500	ID	6.10E+06(S)	6.10E+06(S)	6.10E+06	ID	ID	9.60E+06	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	3(A)	7.3	5,400	NLV	70,000	ID	ID	--	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	2.1	ID	9.4(S,AA)	NLV	9.4	ID	ID	ID	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	5(A)	ID	1(M,AA)	NLV	1.62	ID	ID	--	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	1.5(S,AA)	ID	1.5(S,AA)	ID	1.5	ID	ID	--	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	1(M); 0.26(S)	ID	1(M,AA); 0.26(S)	NLV	0.26	ID	ID	--	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	1(M); 0.8(S)	NA	1(M,AA); 0.8(S)	NLV	0.8	ID	ID	--	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	2	1(M)	5,700	2.10E+05	1.72E+07	1.70E+07(S)	1.70E+07(S)	750	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	6(A)	25	320(AA)	NLV	340	NA	340(S)	--	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	1,200	67(X)	2,700(S)	NLV	2,690	ID	ID	--	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	5,800	NA	3.90E+08	NLV	5.25E+09	NA	1.00E+09(D)	--	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	85	10(M)	7,400	NLV	7,480	ID	ID	--	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	1.6(S)	ID	1.6(S,AA)	ID	1.6	ID	ID	--	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	2(M)	ID	2(M,AA)	NLV	2.49	ID	ID	--	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	ID	4	ID	10,000(S)	10,000	ID	ID	96	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/L	5,500	110	1.10E+06(S)	NLV	1.08E+06	NA	ID	--	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/L	73,000	NA	4.20E+06(S)	NLV	4.19E+06	NA	ID	--	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	880	9.7	11,000(S)	NLV	11,200	NA	ID	--	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	130	ID	400	NLV	3,000	ID	ID	--	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	210(S)	1.6	210(S)	210(S)	206	ID	ID	--	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	880	12	2,000(S)	2,000(S)	1,980	ID	ID	3.00E+05	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	15	0.053	400	3,200(S)	3,230	ID	ID	19	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	50(A)	ID	1,600	420	1,800	ID	ID	50d	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	7.3	6.7(X)	1,900	50,000(S)	50,000	ID	ID	180	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	2(M); 0.022(S)	ID	2(M,AA); 0.022(S)	NLV	0.022	ID	ID	--	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	770	1,300(X)	9.90E+05	NLV	1.20E+07	ID	1.20E+07(S)	--	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	3.4	180(X)	11,000	5.50E+05	2.09E+06	NA	ID	4,400	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	5(M)	NA	360	NLV	9.89E+06	ID	ID	--	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	270	NA	35,000(S)	NLV	35,100	ID	ID	--	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	1(A)	1.8(G,X)	200	NLV	1.85E+06	ID	ID	--	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	52	2(M)	1,000(S)	1,000(S)	1,000	ID	ID	480	NA	NA	NA	NA	NA	NA
Phenol	ug/L	4,400	450	2.90E+07	NLV	8.28E+07	NA	ID	--	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	140(S)	ID	140(S)	140(S)	135	ID	ID	1.70E+06	NA	NA	NA	NA	NA	NA

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		Residential Drinking Water Criteria ^(a)	Groundwater Surface Water Interface Criteria ^(b)	Groundwater Contact Criteria ^(c)	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria	Water Solubility Levels ^(e)	Flammability and Explosivity Screening Levels ^(f)	Acute Inhalation Screening Levels ^(g)	Non-Residential Groundwater Concentrations for Vapor Intrusion ^(h)	CH-14-RO 7 - 12 08/22/11	CH-14-RO 7 - 12 01/03/13	MW-01(3) 55 - 65 10/19/11	MW-01(3) 55 - 65 12/20/12	MW-02 (UNK-12) 11 - 16 10/19/11	MW-02 (UNK-12) 11 - 16 01/03/13
Units															
PCBs															
Aroclor-1016 (PCB-1016)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	NA	<0.05 [<0.05]	<0.05	<0.05	<0.05	<0.05
Aroclor-1221 (PCB-1221)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	NA	<0.1 [<0.1]	<0.05	<0.1	<0.05	<0.1
Aroclor-1232 (PCB-1232)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	NA	<0.1 [<0.1]	<0.05	<0.1	<0.05	<0.1
Aroclor-1242 (PCB-1242)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	NA	<0.1 [<0.1]	<0.05	<0.1	<0.05	<0.1
Aroclor-1248 (PCB-1248)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	NA	<0.1 [<0.1]	<0.05	<0.1	<0.05	<0.1
Aroclor-1254 (PCB-1254)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	NA	<0.1 [<0.1]	<0.05	<0.1	<0.05	<0.1
Aroclor-1260 (PCB-1260)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	NA	<0.05 [<0.05]	<0.05	<0.05	<0.05	<0.05
Total PCBs	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	NA	ND [ND]	<0.05	ND	<0.05	ND
PCBs-Filtered															
Total PCBs (dissolved)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	--	NA	NA	NA	NA	NA	NA
Aroclor-1016 (PCB-1016)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/L	0.006(A)	0.13(X)	68	NLV	NA	ID	ID	--	<0.005 [<0.005]	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002
Arsenic	mg/L	0.01(A)	0.01	4.3	NLV	NA	ID	ID	--	0.001 [<0.0005]	<0.002 [<0.002]	0.006	0.005	0.004	0.011 ^{ab}
Barium	mg/L	2(A)	1.2(G)	14,000	NLV	NA	ID	ID	--	0.084 [0.079]	0.048 [0.044]	0.075	0.092	0.102	0.100
Beryllium	mg/L	0.004(A)	0.026(G)	290	NLV	NA	ID	ID	--	0.0006 [0.0006]	NA	<0.001	NA	<0.001	NA
Boron	mg/L	0.5(F)	7.2(X)	62,000	NLV	NA	ID	ID	--	1.29 [1.32] ^a	0.11 [0.11]	<0.04 J	<0.04	0.12 J	0.09
Cadmium	mg/L	0.005(A)	0.0045(G,X)	190	NLV	NA	ID	ID	--	<0.0005 [<0.0005]	<0.001 [<0.001]	<0.001	<0.001	0.003	<0.001
Chromium VI (hexavalent)	mg/L	0.1(A)	0.011(G,X)	460	NLV	NA	ID	ID	--	28.4 [27.9] ^{ab}	21.3 [21.7] ^{ab}	NA	NA	NA	<0.01
Chromium	mg/L	0.1(A)	0.16(G,X)	2.90E+05	NLV	NA	ID	ID	--	27.1 [27.4] ^{ab}	21.1 [21.1] ^{ab}	<0.010	<0.010	<0.010	<0.010
Cobalt	mg/L	0.04	0.1	2,400	NLV	NA	ID	ID	--	<0.005 [<0.005]	<0.010 [<0.01]	<0.010	<0.010	<0.010	<0.010
Copper	mg/L	1(E)	0.02(G)	7,400	NLV	NA	ID	ID	--	<0.0025 [<0.0025]	0.002 [0.002]	<0.002	<0.002	0.003	<0.002
Lead	mg/L	0.004(L)	0.044(G,X)	ID	NLV	NA	ID	ID	--	<0.0025 [<0.0025]	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002
Manganese	mg/L	0.05(E)	4.5(G,X)	9,100	NLV	NA	ID	ID	--	0.068 [0.064] ^a	<0.010 [<0.01]	0.607 ^a	0.168 ^a	0.708 ^a	0.285 ^a
Mercury	mg/L	0.002(A)	0.0000013	0.056(S)	0.056(S)	0.056	ID	ID	--	<0.0001 [<0.0001]	<0.0001 [<0.0001]	<0.0001	<0.0001	<0.0001	<0.0001
Nickel	mg/L	0.1(A)	0.12(G)	74,000	NLV	NA	ID	ID	--	0.053 [0.054]	0.051 [0.049]	<0.010	0.013	<0.010	<0.010
Selenium	mg/L	0.05(A)	0.005	970	NLV	NA	ID	ID	--	0.033 [0.028] ^b	0.005 [0.005]	<0.002	<0.002	<0.002	<0.002
Silver	mg/L	0.034	0.0002(M)	1,500	NLV	NA	ID	ID	--	<0.0005 [<0.0005]	<0.0002 [<0.0002]	<0.0002	<0.0002	<0.0002	<0.0002
Thallium	mg/L	0.002(A)	0.0037(X)	13	NLV	NA	ID	ID	--	0.0016 [0.0015]	NA	<0.002	NA	<0.002	NA
Vanadium	mg/L	0.0045	0.027	970	NLV	NA	ID	ID	--	<0.0025 [<0.0025]	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002
Zinc	mg/L	2.4	0.26(G)	1.10E+05	NLV	NA	ID	ID	--	<0.005 [<0.005]	<0.010 [<0.01]	0.085 J	<0.010	0.053 J	<0.010
Inorganics-Filtered															
Antimony (dissolved)	mg/L	0.006(A)	0.13(X)	68	NLV	NA	ID	ID	--	NA	NA	<0.002	NA	NA	NA
Arsenic (dissolved)	mg/L	0.01(A)	0.01	4.3	NLV	NA	ID	ID	--	NA	NA	<0.002	NA	NA	NA
Barium (dissolved)	mg/L	2(A)	1.2(G)	14,000	NLV	NA	ID	ID	--	NA	NA	0.062	NA	NA	NA
Beryllium (dissolved)	mg/L	0.004(A)	0.026(G)	290	NLV	NA	ID	ID	--	NA	NA	<0.001	NA	NA	NA
Boron	mg/L	0.5(F)	7.2(X)	62,000	NLV	NA	ID	ID	--	NA	NA	<0.04	NA	NA	NA
Cadmium (dissolved)	mg/L	0.005(A)	0.0045(G,X)	190	NLV	NA	ID	ID	--	NA	NA	<0.001	NA	NA	NA
Chromium VI (hexavalent) (dissolved)	mg/L	0.1(A)	0.011(G,X)	460	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	0.1(A)	0.16(G,X)	2.90E+05	NLV	NA	ID	ID	--	NA	NA	<0.010	NA	NA	NA
Cobalt (dissolved)	mg/L	0.04	0.1	2,400	NLV	NA	ID	ID	--	NA	NA	<0.010	NA	NA	NA
Copper (dissolved)	mg/L	1(E)	0.02(G)	7,400	NLV	NA	ID	ID	--	NA	NA	0.003	NA	NA	NA
Lead (dissolved)	mg/L	0.004(L)	0.044(G,X)	ID	NLV	NA	ID	ID	--	NA	NA	<0.002	NA	NA	NA
Manganese (dissolved)	mg/L	0.05(E)	4.5(G,X)	9,100	NLV	NA	ID	ID	--	NA	NA	0.575 ^a	NA	NA	NA
Mercury (dissolved)	mg/L	0.002(A)	0.0000013	0.056(S)	0.056(S)	0.056	ID	ID	--	NA	NA	<0.0001	NA	NA	NA
Nickel (dissolved)	mg/L	0.1(A)	0.12(G)	74,000	NLV	NA	ID	ID	--	NA	NA	0.012	NA	NA	NA
Selenium (dissolved)	mg/L	0.05(A)	0.005	970	NLV	NA	ID	ID	--	NA	NA	<0.002	NA	NA	NA
Silver (dissolved)	mg/L	0.034	0.0002(M)	1,500	NLV	NA	ID	ID	--	NA	NA	<0.0002	NA	NA	NA
Thallium (dissolved)	mg/L	0.002(A)	0.0037(X)	13	NLV	NA	ID	ID	--	NA	NA	<0.002	NA	NA	NA
Vanadium (dissolved)	mg/L	0.0045	0.027	970	NLV	NA	ID	ID	--	NA	NA	<0.002	NA	NA	NA
Zinc (dissolved)	mg/L	2.4	0.26(G)	1.10E+05	NLV	NA	ID	ID	--	NA	NA	0.034 J	NA	NA	NA

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		MW-02-01(3) 59 - 69 10/12/11	MW-02-01(3) 59 - 69 12/18/12	MW-02-02(3) 74 - 84 10/13/11	MW-02-02(3) 74 - 84 12/19/12	MW-02-03(3) 79 - 89 10/12/11	MW-02-03(3) 79 - 89 12/19/12	MW-02-04(3) 76 - 86 10/11/11	MW-02-04(3) 76 - 86 12/19/12	MW-03(3) 8 - 13 10/19/11	MW-03(3) 8 - 13 01/03/13	MW-04(3) 10.5 - 15.5 11/28/11	MW-04(3) 10.5 - 15.5 01/02/13	MW-04-01(3) 95 - 105 10/12/11	MW-04-01(3) 95 - 105 12/18/12	MW-04-02(3) 126 - 136 10/11/11	MW-04-02(3) 126 - 136 02/29/12	MW-04-02(3) 126 - 136 12/18/12
	Units																	
Volatile Organics																		
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	<0.05 J	<1	<0.05 J	<1	<0.05 J	<1 [<1]	<0.05	<1	<0.05	<1	<0.05	<1	<0.05 J	<1	<0.05 J	<0.05 J	<1
1,2-Dibromoethane (Ethylene dibromide)	ug/L	<0.02	<1	<0.02	<1	<0.02	<1 [<1]	<0.02	<1	<0.02	<1	<0.02	<1	<0.02	<1	<0.02	<0.02	<1
1,2-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Hexanone	ug/L	<10	<10	<10	<10	<10	<10 [<10]	<10	<10	<10	<10	<10	<10	<10	<10 J	<10	<10	<10 J
Acetone	ug/L	<10	<10 J	<10	<10	<10	<10 [<10]	<10	<10	<10 J	<10	<10	<10	<10	<10 J	<10	<10	<10 J
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane (Methyl bromide)	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform (Trichloromethane)	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane (Methyl chloride)	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane (CFC-12)	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl acetate	ug/L	<10	<10	<10	<10	<10	<10 [<10]	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methylene chloride	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane (CFC-11)	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trifluorotrichloroethane (Freon 113)	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dioxane	ug/L	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	2	1	2	1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	1	1	<1	<1	<1	<1	2	1	<1
1,1-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	12	9	<1
trans-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	13 ^a	7 ^a	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	2	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	ug/L	<2	<2	<2	<2	<2	<2 [<2]	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Xylene (total)	ug/L	<3	<3	<3	<3	<3	<3 [<3]	NA	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Methyl tert butyl ether (MTBE)	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	<10	<10 J	<10	<10	<10	<10 [<10]	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	<10	<10	<10	<10	<10	<10 [<10]	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2,4-Trichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cyclohexane	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl cyclohexane	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropyl benzene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	MW-02-01(3) 59 - 69 10/12/11	MW-02-01(3) 59 - 69 12/18/12	MW-02-02(3) 74 - 84 10/13/11	MW-02-02(3) 74 - 84 12/19/12	MW-02-03(3) 79 - 89 10/12/11	MW-02-03(3) 79 - 89 12/19/12	MW-02-04(3) 76 - 86 10/11/11	MW-02-04(3) 76 - 86 12/19/12	MW-03(3) 8 - 13 10/19/11	MW-03(3) 8 - 13 01/03/13	MW-04(3) 10.5 - 15.5 11/28/11	MW-04(3) 10.5 - 15.5 01/02/13	MW-04-01(3) 95 - 105 10/12/11	MW-04-01(3) 95 - 105 12/18/12	MW-04-02(3) 126 - 136 10/11/11	MW-04-02(3) 126 - 136 02/29/12	MW-04-02(3) 126 - 136 12/18/12
Semivolatile Organics																		
1-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) et	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	1	<1	<1	<1	<1	<1	NA	<1
2,4,6-Trichlorophenol	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
2,4-Dichlorophenol	ug/L	<1	NA	<1	<1 J	<1	<1 J [<1 J]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
2,4,5-Trichlorophenol	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
2,4-Dimethylphenol	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
2,4-Dinitrophenol	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
2,4-Dinitrotoluene	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
2,6-Dinitrotoluene	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
2-Chloronaphthalene	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
2-Chlorophenol	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
2-Methylnaphthalene	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
2-Methylphenol	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
2-Nitroaniline	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
2-Nitrophenol	ug/L	<1	NA	<1	<1 J	<1	<1 J [<1 J]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
3&4-Methylphenol	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
3,3'-Dichlorobenzidine	ug/L	<0.05	NA	<0.05	NA	<0.05	NA	<0.05	NA	<0.05	NA	<0.05	NA	<0.05	NA	<0.05	NA	NA
Naphthalene	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
3-Nitroaniline	ug/L	<1	NA	<1	<1	<1	<1 J [<1 J]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
4-Bromophenyl phenyl ether	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
4-Chloro-3-methylphenol	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
4-Chloroaniline	ug/L	<2	NA	<2	R	<2	<1 J [<1 J]	<2	<2	<2	<1 J	<2	<1 J	<2	<1 J	<2	NA	<1 J
4-Chlorophenyl phenyl ether	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
4-Nitroaniline	ug/L	<1	NA	<1	<1 J	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
4-Nitrophenol	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Anthracene	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Acenaphthene	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Acenaphthylene	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Acetophenone	ug/L	<1	NA	<1	<1	<1	<1 J [<1 J]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Atrazine	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Benzaldehyde	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1 J	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Benzo(a)anthracene	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Benzo(a)pyrene	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Benzo(b)fluoranthene	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	R	NA	R
Benzo(g,h,i)perylene	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Benzo(k)fluoranthene	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	R	<1	NA	R
Biphenyl (1,1-Biphenyl)	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
bis(2-Chloroethoxy)methane	ug/L	<1	NA	<1	<1	<1	<1 J [<1 J]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
bis(2-Chloroethyl)ether	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	<2	NA	<2	<1 B	<2	<1 [<1]	<2	<2	<2	<1	<2	<1	<2	<1 B	<2	NA	<2 B
Butyl benzylphthalate (BBP)	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Caprolactam	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	6	<1	<1	<1	<1	<1	<1	<1	NA	<1
Carbazole	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Chrysene	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Dibenz(a,h)anthracene	ug/L	<1	NA	<1	<2	<1	<2 [<2]	<1	<1	<1	<2	<1	<2	<1	<2	<1	NA	<2
Dibenzofuran	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Diethyl phthalate	ug/L	<2	NA	<2	<1	<2	<1 [<1]	<2	<2	<2	<1	<2	<1	<2	<1	<2	NA	<1
Dimethyl phthalate	ug/L	<2	NA	<2	<1	<2	<1 [<1]	<2	<2	<2	<1	<2	<1	<2	<1	<2	NA	<1
Di-n-butylphthalate (DBP)	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1 B
Di-n-octyl phthalate (DnOP)	ug/L	<1	NA	2	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Fluoranthene	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Fluorene	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Hexachlorobenzene	ug/L	<0.05	NA	<0.05	NA	<0.05	NA	<0.05	NA	<0.05	NA	0.10	NA	<0.05	NA	<0.05	NA	NA
Hexachlorobutadiene	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Hexachlorocyclopentadiene	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Hexachloroethane	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Indeno(1,2,3-cd)pyrene	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Isophorone	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Nitrobenzene	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
N-Nitrosodi-n-propylamine	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
N-Nitrosodiphenylamine	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	R	<1	NA	R
Pentachlorophenol	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Phenanthrene	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Phenol	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1 J	3	<1	<1	<1	<1	<1	<1	<1	NA	<1
Pyrene	ug/L	<1	NA	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		MW-02-01(3) 59 - 69 10/12/11	MW-02-01(3) 59 - 69 12/18/12	MW-02-02(3) 74 - 84 10/13/11	MW-02-02(3) 74 - 84 12/19/12	MW-02-03(3) 79 - 89 10/12/11	MW-02-03(3) 79 - 89 12/19/12	MW-02-04(3) 76 - 86 10/11/11	MW-02-04(3) 76 - 86 12/19/12	MW-03(3) 8 - 13 10/19/11	MW-03(3) 8 - 13 01/03/13	MW-04(3) 10.5 - 15.5 11/28/11	MW-04(3) 10.5 - 15.5 01/02/13	MW-04-01(3) 95 - 105 10/12/11	MW-04-01(3) 95 - 105 12/18/12	MW-04-02(3) 126 - 136 10/11/11	MW-04-02(3) 126 - 136 02/29/12	MW-04-02(3) 126 - 136 12/18/12
	Units																	
Semivolatile Organics-Filtered																		
2-Methyl-4,6-dinitrophenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/L	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/L	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	MW-02-01(3) 59 - 69 10/12/11	MW-02-01(3) 59 - 69 12/18/12	MW-02-02(3) 74 - 84 10/13/11	MW-02-02(3) 74 - 84 12/19/12	MW-02-03(3) 79 - 89 10/12/11	MW-02-03(3) 79 - 89 12/19/12	MW-02-04(3) 76 - 86 10/11/11	MW-02-04(3) 76 - 86 12/19/12	MW-03(3) 8 - 13 10/19/11	MW-03(3) 8 - 13 01/03/13	MW-04(3) 10.5 - 15.5 11/28/11	MW-04(3) 10.5 - 15.5 01/02/13	MW-04-01(3) 95 - 105 10/12/11	MW-04-01(3) 95 - 105 12/18/12	MW-04-02(3) 126 - 136 10/11/11	MW-04-02(3) 126 - 136 02/29/12	MW-04-02(3) 126 - 136 12/18/12
PCBs																		
Aroclor-1016 (PCB-1016)	ug/L	<0.05	NA	<0.05	<0.05	<0.05	<0.05 [<0.05]	<0.05	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05
Aroclor-1221 (PCB-1221)	ug/L	<0.05	NA	<0.05	<0.1	<0.05	<0.1 [<0.1]	<0.05	NA	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	NA	<0.1
Aroclor-1232 (PCB-1232)	ug/L	<0.05	NA	<0.05	<0.1	<0.05	<0.1 [<0.1]	<0.05	NA	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	NA	<0.1
Aroclor-1242 (PCB-1242)	ug/L	<0.05	NA	<0.05	<0.1	<0.05	<0.1 [<0.1]	<0.05	NA	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	NA	<0.1
Aroclor-1248 (PCB-1248)	ug/L	<0.05	NA	<0.05	<0.1	<0.05	<0.1 [<0.1]	<0.05	NA	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	NA	<0.1
Aroclor-1254 (PCB-1254)	ug/L	<0.05	NA	<0.05	<0.1	<0.05	<0.1 [<0.1]	<0.05	NA	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	NA	<0.1
Aroclor-1260 (PCB-1260)	ug/L	<0.05	NA	<0.05	<0.05	<0.05	<0.05 [<0.05]	<0.05	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05
Total PCBs	ug/L	<0.05	NA	<0.05	ND	<0.05	ND [ND]	<0.05	NA	<0.05	ND	<0.05	ND	<0.05	ND	<0.05	NA	ND
PCBs-Filtered																		
Total PCBs (dissolved)	ug/L	NA	ND	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1016 (PCB-1016)	ug/L	NA	<0.05	NA	NA	NA	NA	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	<0.1	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	<0.1	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	<0.1	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	<0.1	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	<0.1	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	<0.05	NA	NA	NA	NA	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																		
Antimony	mg/L	<0.002	NA	<0.002	<0.002	<0.002	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	<0.002
Arsenic	mg/L	0.004	NA	<0.002	<0.002	0.006	0.007 [0.007]	0.017^{ab}	0.023^{ab}	0.008	0.005	<0.002	<0.002	0.003	0.003	0.004	NA	<0.002
Barium	mg/L	0.084	NA	0.041	0.080	0.463	0.602 [0.624]	0.148	0.172	0.208	0.100	0.071	0.072	0.042	0.058	0.099	NA	0.015
Beryllium	mg/L	<0.001	NA	<0.001	NA	<0.001	NA	<0.001	NA	<0.001	NA	<0.001	NA	<0.001	NA	<0.001	NA	NA
Boron	mg/L	0.11	NA	<0.04	<0.04	0.08	<0.04 [<0.04]	<0.04	<0.04	0.05 J	<0.04	0.06	0.05	0.11	0.10	0.36	NA	<0.04
Cadmium	mg/L	<0.001	NA	<0.001	<0.001	<0.001	<0.001 [<0.001]	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001
Chromium VI (hexavalent)	mg/L	NA	NA	NA	NA	NA	R [<0.02]	NA	<0.02	NA	<0.01	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	<0.010	NA	<0.010	<0.010	<0.010	<0.010 [<0.01]	<0.010	0.112^a	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA	<0.010
Cobalt	mg/L	<0.010	NA	<0.010	<0.010	<0.010	<0.010 [<0.01]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA	<0.010
Copper	mg/L	<0.002	NA	<0.002	<0.002	<0.002	<0.002 [<0.002]	<0.002	0.009	<0.002	0.004	<0.002	0.002	<0.002	<0.002	<0.002	NA	0.008
Lead	mg/L	<0.002	NA	<0.002	<0.002	<0.002	<0.002 [<0.002]	<0.002	0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	NA	<0.002
Manganese	mg/L	0.057^a	NA	0.144^a	1.64^a	0.158^a	0.112 [0.113] ^a	0.095^a	0.275^a	0.799^a	0.574^a	0.039	0.018	0.022	0.044	0.291^a	NA	<0.010
Mercury	mg/L	<0.0001	NA	<0.0001	<0.0001	<0.0001	<0.0001 [<0.0001]	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	NA	<0.0001
Nickel	mg/L	<0.010	NA	<0.010	0.024	<0.010	<0.010 [<0.01]	0.013	0.110^a	<0.010	0.011	<0.010	0.010	<0.010	<0.010	<0.010	NA	0.012
Selenium	mg/L	<0.002	NA	<0.002	<0.002	<0.002	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	<0.002
Silver	mg/L	<0.0002	NA	<0.0002	<0.0002	<0.0002	<0.0002 [<0.0002]	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	NA	<0.0002
Thallium	mg/L	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	NA	NA
Vanadium	mg/L	<0.002	NA	<0.002	<0.002	<0.002	<0.002 [<0.002]	<0.002	0.004	<0.002	0.003	<0.002	0.004	<0.002	<0.002	<0.002	NA	<0.002
Zinc	mg/L	<0.010	NA	0.01	0.051	<0.010	<0.010 [0.011]	<0.010	0.021	<0.010 J	0.021	<0.010	<0.010	<0.010	<0.010	0.04	NA	0.471^u
Inorganics-Filtered																		
Antimony (dissolved)	mg/L	<0.002	<0.002	NA	NA	NA	NA	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (dissolved)	mg/L	0.003	0.006	NA	NA	NA	NA	0.012^{ab}	0.013^{ab}	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (dissolved)	mg/L	0.081	0.086	NA	NA	NA	NA	0.137	0.159	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (dissolved)	mg/L	<0.001	NA	NA	NA	NA	NA	<0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/L	0.10	0.10	NA	NA	NA	NA	NA	<0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (dissolved)	mg/L	<0.001	<0.001	NA	NA	NA	NA	<0.001	<0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent) (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	<0.010	<0.010	NA	NA	NA	NA	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (dissolved)	mg/L	<0.010	<0.010	NA	NA	NA	NA	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (dissolved)	mg/L	<0.002	<0.002	NA	NA	NA	NA	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (dissolved)	mg/L	<0.002	<0.002	NA	NA	NA	NA	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (dissolved)	mg/L	0.053^a	0.049	NA	NA	NA	NA	0.079^a	0.080^a	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (dissolved)	mg/L	<0.0001	<0.0001	NA	NA	NA	NA	NA	<0.0001	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (dissolved)	mg/L	<0.010	<0.010	NA	NA	NA	NA	0.013	0.031	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (dissolved)	mg/L	<0.002	<0.002	NA	NA	NA	NA	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (dissolved)	mg/L	<0.0002	<0.0002	NA	NA	NA	NA	<0.0002	<0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (dissolved)	mg/L	<0.002	NA	NA	NA	NA	NA	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (dissolved)	mg/L	<0.002	<0.002	NA	NA	NA	NA	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (dissolved)	mg/L	<0.010	<0.010	NA	NA	NA	NA	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		MW-04-03(3) 80 - 90 10/11/11	MW-04-03(3) 80 - 90 02/29/12	MW-04-03(3) 80 - 90 12/18/12	MW-04-04(3) 72 - 82 03/01/12	MW-04-04(3) 72 - 82 12/18/12	MW-05(3) 10 - 15 11/28/11	MW-05(3) 10 - 15 01/02/13	MW-06(3) 6.5 - 11.5 11/28/11	MW-06(3) 6.5 - 11.5 01/03/13	MW-12-04 77 - 100 04/17/12	MW-12-04 77 - 100 12/18/12	MW-12-20 75 - 80 02/08/13	MW-12-21 70 - 75 02/08/13	MW-19 55 - 65 10/19/11	MW-19 55 - 65 12/20/12	MW-22 52.5 - 62.5 11/29/11	MW-22 52.5 - 62.5 12/19/12	MW-23 52 - 62 11/29/11	MW-23 52 - 62 12/20/12
Units																				
Volatile Organics																				
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	<0.05	<0.05 J	<1	<0.05 J	<1	<0.05	<1	<0.05	<1	<0.05	<1	<1	<1	<0.05	<1	<0.05	<1	<0.05	<1
1,2-Dibromoethane (Ethylene dibromide)	ug/L	<0.02	<0.02	<1	<0.02	<1	<0.02	<1	<0.02	<1	<0.02	<1	<1	<1	<0.02	<1	<0.02	<1	<0.02	<1
1,2-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Hexanone	ug/L	<10	<10	<10 J	<10	<10 J	<10	<10	<10	<10	<10	<10 J	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<10	<10	<10 J	<10	<10 J	<10	<10	<10	<10	<10	<10 J	<10	<10	<10 J	<10	<10	<10	<10	<10
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane (Methyl bromide)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon disulfide	ug/L	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform (Trichloromethane)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane (Methyl chloride)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane (CFC-12)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl acetate	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methylene chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane (CFC-11)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trifluorotrichloroethane (Freon 113)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dioxane	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	380 Y (460 Y) ^a	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	44	29	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	<1	<1	<1	1	1	<1	<1	4	4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	<1	<1	<1	5	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	ug/L	13 ^a	9 ^a	13 ^a	5 ^a	5 ^a	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Xylene (total)	ug/L	NA	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	NA	NA	<3	<3	<3	<3	<3	<3
Methyl tert butyl ether (MTBE)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	<10	<10	<10 J	<10	<10 J	<10	<10	<10	<10	<10	<10 J	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2,4-Trichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cyclohexane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl cyclohexane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropyl benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

[illegible]

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		MW-04-03(3) 80 - 90 10/11/11	MW-04-03(3) 80 - 90 02/29/12	MW-04-03(3) 80 - 90 12/18/12	MW-04-04(3) 72 - 82 03/01/12	MW-04-04(3) 72 - 82 12/18/12	MW-05(3) 10 - 15 11/28/11	MW-05(3) 10 - 15 01/02/13	MW-06(3) 6.5 - 11.5 11/28/11	MW-06(3) 6.5 - 11.5 01/03/13	MW-12-04 77 - 100 04/17/12	MW-12-04 77 - 100 12/18/12	MW-12-20 75 - 80 02/08/13	MW-12-21 70 - 75 02/08/13	MW-19 55 - 65 10/19/11	MW-19 55 - 65 12/20/12	MW-22 52.5 - 62.5 11/29/11	MW-22 52.5 - 62.5 12/19/12	MW-23 52 - 62 11/29/11	MW-23 52 - 62 12/20/12
	Units																			
Semivolatile Organics-Filtered																				
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
2-Chlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
2-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
2-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
2-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
3&4-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
3-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
4-Chloroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
4-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
4-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Acenaphthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Acenaphthylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Acetophenone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Atrazine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Benzaldehyde	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Caprolactam	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	NA	NA	NA	NA
Carbazole	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Chrysene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Dibenzofuran	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Diethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA
Dimethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Fluorene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Hexachloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Isophorone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Nitrobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Pentachlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Phenanthrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Phenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	NA	NA	NA	NA
Pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	MW-04-03(3) 80 - 90 10/11/11	MW-04-03(3) 80 - 90 02/29/12	MW-04-03(3) 80 - 90 12/18/12	MW-04-04(3) 72 - 82 03/01/12	MW-04-04(3) 72 - 82 12/18/12	MW-05(3) 10 - 15 11/28/11	MW-05(3) 10 - 15 01/02/13	MW-06(3) 6.5 - 11.5 11/28/11	MW-06(3) 6.5 - 11.5 01/03/13	MW-12-04 77 - 100 04/17/12	MW-12-04 77 - 100 12/18/12	MW-12-20 75 - 80 02/08/13	MW-12-21 70 - 75 02/08/13	MW-19 55 - 65 10/19/11	MW-19 55 - 65 12/20/12	MW-22 52.5 - 62.5 11/29/11	MW-22 52.5 - 62.5 12/19/12	MW-23 52 - 62 11/29/11	MW-23 52 - 62 12/20/12
PCBs																				
Aroclor-1016 (PCB-1016)	ug/L	<0.05	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor-1221 (PCB-1221)	ug/L	<0.05	NA	NA	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	NA	<0.1	NA	NA	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1
Aroclor-1232 (PCB-1232)	ug/L	<0.05	NA	NA	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	NA	<0.1	NA	NA	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1
Aroclor-1242 (PCB-1242)	ug/L	<0.05	NA	NA	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	NA	<0.1	NA	NA	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1
Aroclor-1248 (PCB-1248)	ug/L	<0.05	NA	NA	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	NA	<0.1	NA	NA	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1
Aroclor-1254 (PCB-1254)	ug/L	<0.05	NA	NA	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	NA	<0.1	NA	NA	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1
Aroclor-1260 (PCB-1260)	ug/L	<0.05	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total PCBs	ug/L	<0.05	NA	NA	ND	ND	<0.05	ND	<0.05	ND	NA	ND	NA	NA	<0.05	ND	<0.05	ND	<0.05	ND
PCBs-Filtered																				
Total PCBs (dissolved)	ug/L	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																				
Antimony	mg/L	<0.002	NA	NA	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Arsenic	mg/L	0.005	NA	NA	0.013^{ab}	0.013^{ab}	<0.002	<0.002	<0.002	<0.002	0.011^{ab}	0.011^{ab}	0.002	<0.002	<0.002	0.002	0.004	<0.002	0.006	0.009
Barium	mg/L	0.241	NA	NA	0.091	0.111	0.116	0.096	0.083	0.040	0.174	0.152	0.140	0.061	0.057	0.065	0.133	0.107	0.084	0.097
Beryllium	mg/L	<0.001	NA	NA	<0.001	NA	<0.001	NA	<0.001	NA	<0.001	NA	NA	NA	<0.001	NA	<0.001	NA	<0.001	NA
Boron	mg/L	0.35	NA	NA	0.29	0.26	0.07	0.06	0.12	0.05	0.06	0.06	0.06	0.26	<0.04 J	<0.04	<0.04	<0.04	<0.04	<0.04
Cadmium	mg/L	<0.001	NA	NA	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium VI (hexavalent)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.01	NA	NA	NA	NA	NA	<0.01	NA	<0.02	NA	<0.02
Chromium	mg/L	<0.010	NA	NA	<0.005	0.013	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.013	<0.010	0.043	<0.010	<0.010
Cobalt	mg/L	<0.010	NA	NA	<0.005	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Copper	mg/L	<0.002	NA	NA	<0.004	0.005	0.003	0.003	0.002	<0.002	0.003	<0.002	<0.002	0.002	0.010	0.023^b	<0.002	0.003	<0.002	0.005
Lead	mg/L	<0.002	NA	NA	0.007^a	0.008^a	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.005^a	0.017^a	0.002	0.002	<0.002	0.005^a
Manganese	mg/L	0.197^a	NA	NA	0.530^a	0.798^a	0.032	0.023	0.208^a	0.341^a	0.116^a	0.126^a	0.153^a	0.307^a	0.311^a	0.146^a	0.356^a	0.991^a	0.064^a	0.309^a
Mercury	mg/L	<0.0001	NA	NA	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Nickel	mg/L	<0.010	NA	NA	0.005	0.020	<0.010	0.026	<0.010	<0.010	<0.010	<0.010	0.047	0.041	<0.010	0.026	<0.010	0.042	<0.010	0.017
Selenium	mg/L	<0.002	NA	NA	<0.005	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Silver	mg/L	<0.0002	NA	NA	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0008^b	<0.0002	<0.0002	<0.0002	<0.0002
Thallium	mg/L	<0.002	NA	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	NA	NA	NA	<0.002	NA	<0.002	NA	<0.002	NA
Vanadium	mg/L	<0.002	NA	NA	<0.004	0.005^a	<0.002	0.010^a	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	0.004
Zinc	mg/L	<0.010	NA	NA	<0.005	0.039	0.014	<0.010	<0.010	<0.010	<0.010	<0.010	0.013	0.025	0.058 J	0.234	<0.010	<0.010	<0.010	0.025
Inorganics-Filtered																				
Antimony (dissolved)	mg/L	NA	NA	<0.002	NA	NA	NA	NA	<0.002	NA	NA	NA	<0.002	<0.002	<0.002	<0.002	NA	NA	NA	NA
Arsenic (dissolved)	mg/L	NA	NA	<0.002	NA	NA	NA	NA	<0.002	NA	NA	NA	<0.002	<0.002	<0.002	<0.002	NA	NA	NA	NA
Barium (dissolved)	mg/L	NA	NA	0.190	NA	NA	NA	NA	0.071	NA	NA	NA	0.140	0.060	0.048	0.042	NA	NA	NA	NA
Beryllium (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.001	NA	NA	NA	NA	NA	<0.001	NA	NA	NA	NA	NA
Boron	mg/L	NA	NA	0.33	NA	NA	NA	NA	0.13	NA	NA	NA	0.07	0.27	<0.04	<0.04	NA	NA	NA	NA
Cadmium (dissolved)	mg/L	NA	NA	<0.001	NA	NA	NA	NA	<0.001	NA	NA	NA	<0.001	<0.001	<0.001	<0.001	NA	NA	NA	NA
Chromium VI (hexavalent) (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.01	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	0.015	NA	NA	NA	NA	<0.010	NA	NA	NA	<0.010	<0.010	<0.010	<0.010	NA	NA	NA	NA
Cobalt (dissolved)	mg/L	NA	NA	<0.010	NA	NA	NA	NA	<0.010	NA	NA	NA	<0.010	<0.010	<0.010	<0.010	NA	NA	NA	NA
Copper (dissolved)	mg/L	NA	NA	<0.002	NA	NA	NA	NA	0.003	NA	NA	NA	<0.002	0.002	0.010	0.002	NA	NA	NA	NA
Lead (dissolved)	mg/L	NA	NA	<0.002	NA	NA	NA	NA	<0.002	NA	NA	NA	<0.002	<0.002	0.003	<0.002	NA	NA	NA	NA
Manganese (dissolved)	mg/L	NA	NA	0.209^a	NA	NA	NA	NA	0.018	NA	NA	NA	0.150^a	0.303^a	0.237^a	0.141^a	NA	NA	NA	NA
Mercury (dissolved)	mg/L	NA	NA	<0.0001	NA	NA	NA	NA	<0.0001	NA	NA	NA	<0.0001	<0.0001	<0.0001	<0.0001	NA	NA	NA	NA
Nickel (dissolved)	mg/L	NA	NA	0.023	NA	NA	NA	NA	<0.010	NA	NA	NA	0.045	0.042	<0.010	0.018	NA	NA	NA	NA
Selenium (dissolved)	mg/L	NA	NA	<0.002	NA	NA	NA	NA	<0.002	NA	NA	NA	<0.002	<0.002	<0.002	<0.002	NA	NA	NA	NA
Silver (dissolved)	mg/L	NA	NA	<0.0002	NA	NA	NA	NA	<0.0002	NA	NA	NA	<0.0002	<0.0002	<0.0002	<0.0002	NA	NA	NA	NA
Thallium (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.002	NA	NA	NA	NA	NA	<0.002	NA	NA	NA	NA	NA
Vanadium (dissolved)	mg/L	NA	NA	<0.002	NA	NA	NA	NA	<0.002	NA	NA	NA	<0.002	<0.002	<0.002	<0.002	NA	NA	NA	NA
Zinc (dissolved)	mg/L	NA	NA	<0.010	NA	NA	NA	NA	<0.010	NA	NA	NA	0.012	0.022	0.086 J	0.034	NA	NA	NA	NA

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		MW-88-1 103 - 140 03/27/12	MW-88-1 103 - 104 12/18/12	MW-91-2 68 - 78 10/13/11	MW-91-2 68 - 78 02/29/12	MW-91-2 68 - 78 12/20/12	MW-91-3 107 - 117 10/19/11	MW-91-3 107 - 117 12/18/12	MW-91-4 116 - 132.5 04/17/12	MW-91-4 116 - 132.5 12/18/12	MW-91-5 112.5 - 128 10/12/11	MW-91-5 112.5 - 128 12/19/12	P3-SB-07 11 - 16 08/18/11	P3-SB-07 11 - 16 01/03/13	P3-SB-28 8 - 13 08/23/11	P3-SB-28 8 - 13 01/03/13	SB-A11-HC24 5 - 9 05/22/12	SB-A11-HE23 19 - 23 05/22/12	SB-A11-HH24 0 - 4 09/07/12
	Units																		
Volatile Organics																			
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	<0.05	<1	<0.05 J	NA	<1	<0.05 [<0.05]	<1	<0.05	<1	<0.05 J	<1	<0.05	<1	NA	<1	<2.0	<2.0	<1
1,2-Dibromoethane (Ethylene dibromide)	ug/L	<0.02	<1	<0.02	NA	<1	<0.02 [<0.02]	<1	<0.02	<1	<0.02	<1	<0.02	<1	NA	<1	<2.0	<2.0	<1
1,2-Dichlorobenzene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
1,4-Dichlorobenzene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
2-Hexanone	ug/L	<10	<10 J	<10	NA	<10	<10 [<10]	<10 J	<10	<10 J	<10	<10	<10	<10	NA	<10	<20	<20	<10
Acetone	ug/L	<10	<10 J	<10	NA	10	<10 J [<10 J]	<10 J	<10	<10 J	<10	<10	<10	<10	NA	<10	<50	<50	<10
Bromodichloromethane	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
Bromoform	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
Bromomethane (Methyl bromide)	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	NA	NA	<1
Carbon disulfide	ug/L	<1	<1 J	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
Carbon tetrachloride	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
Chlorobenzene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
Chloroform (Trichloromethane)	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	1.0 J	<2.0	<1
Chloromethane (Methyl chloride)	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<5.0	<5.0	<1
cis-1,3-Dichloropropene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
Dichlorodifluoromethane (CFC-12)	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	NA	NA	<1
Methyl acetate	ug/L	<10	<10	<10	NA	<10	<10 [<10]	<10	<10	<10	<10	<10	<10	<10	NA	<10	NA	NA	<10
Methylene chloride	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
Styrene	ug/L	<1	<1 J	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
trans-1,3-Dichloropropene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
Trichlorofluoromethane (CFC-11)	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	NA	NA	<1
Trifluorotrichloroethane (Freon 113)	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
1,4-Dioxane	ug/L	<5	<5	<5	NA	<5	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	NA	<5	<5	82	<5
1,1,1-Trichloroethane	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	180 ^b	9.0	1
1,1,2,2-Tetrachloroethane	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
1,1,2-Trichloroethane	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	8.2 ^a	1.5 J	<1
1,1-Dichloroethane	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	3	2	<1	<1	<1	<1	NA	<1	98	16	<1
1,1-Dichloroethene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	7.9 ^a	1.3 J	<1
1,2-Dichloroethane	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
cis-1,2-Dichloroethene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	24	21	<1	<1	<1	<1	NA	<1	3.8	<2.0	<1
trans-1,2-Dichloroethene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
Trichloroethene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	4.9	<2.0	<1
Tetrachloroethene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	11 ^a	<2.0	<1
Vinyl chloride	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	18 ^{ab}	13 ^a	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
Chloroethane	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
Benzene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
Ethylbenzene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
Toluene	ug/L	<1	<1	<1	NA	2	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
o-Xylene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
m&p-Xylene	ug/L	<2	<2	<2	NA	<2	<2 [<2]	<2	<2	<2	<2	<2	<2	<2	NA	<2	<4.0	<4.0	<2
Xylene (total)	ug/L	<3	<3	<3	NA	<3	<3 [<3]	<3	<3	<3	<3	<3	<3	<3	NA	<3	<6	<6	<3
Methyl tert butyl ether (MTBE)	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	<10	<10 J	<10	NA	<10	<10 [<10]	<10 J	<10	<10 J	<10	<10	<10	<10	NA	<10	<20	<20	<10
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	<10	<10	<10	NA	<10	<10 [<10]	<10	<10	<10	<10	<10	<10	<10	NA	<10	<20	<20	<10
1,2,4-Trichlorobenzene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
1,2,4-Trimethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	NA
1,3,5-Trimethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	NA
1,2-Dichloropropane	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
1,3-Dichlorobenzene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
Cyclohexane	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
Methyl cyclohexane	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
Dibromochloromethane	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
Isopropyl benzene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	NA	<1	<2.0	<2.0	<1
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	NA

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		MW-88-1 103 - 140 03/27/12	MW-88-1 103 - 104 12/18/12	MW-91-2 68 - 78 10/13/11	MW-91-2 68 - 78 02/29/12	MW-91-2 68 - 78 12/20/12	MW-91-3 107 - 117 10/19/11	MW-91-3 107 - 117 12/18/12	MW-91-4 116 - 132.5 04/17/12	MW-91-4 116 - 132.5 12/18/12	MW-91-5 112.5 - 128 10/12/11	MW-91-5 112.5 - 128 12/19/12	P3-SB-07 11 - 16 08/18/11	P3-SB-07 11 - 16 01/03/13	P3-SB-28 8 - 13 08/23/11	P3-SB-28 8 - 13 01/03/13	SB-A11-HC24 5 - 9 05/22/12	SB-A11-HE23 19 - 23 05/22/12	SB-A11-HH24 0 - 4 09/07/12
Units																			
Semivolatile Organics																			
1-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) et	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	NA
2,4,6-Trichlorophenol	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
2,4-Dichlorophenol	ug/L	<1	<1 J	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1 J	<1 J	<1	<1 J	<1	<1	<1	NA
2,4,5-Trichlorophenol	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
2,4-Dimethylphenol	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
2,4-Dinitrophenol	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	NA
2,4-Dinitrotoluene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
2,6-Dinitrotoluene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
2-Chloronaphthalene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
2-Chlorophenol	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	NA
2-Methylnaphthalene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
2-Methylphenol	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
2-Nitroaniline	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
2-Nitrophenol	ug/L	<1	<1 J	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1 J	<1 J	<1	<1 J	<1	<1	<1	NA
3&4-Methylphenol	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
3,3'-Dichlorobenzidine	ug/L	<0.05	NA	<0.05	NA	NA	<0.05 [<0.05]	NA	<0.05	NA	<0.05	NA	<0.05	NA	<0.05 J	NA	<0.06	<0.05	NA
Naphthalene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	NA
3-Nitroaniline	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
4-Bromophenyl phenyl ether	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
4-Chloro-3-methylphenol	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
4-Chloroaniline	ug/L	<2	<1 J	<2	NA	<1	<2 [<2]	<1 J	<2	<2	<2	<1 J	<2 J	<1 J	<2 J	<1	<2	<2	NA
4-Chlorophenyl phenyl ether	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
4-Nitroaniline	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	NA
4-Nitrophenol	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	NA
Anthracene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
Acenaphthene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
Acenaphthylene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
Acetophenone	ug/L	<1	<1 J	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1 J	<1 J	<1	<1	<1	<1	<1	NA
Atrazine	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	NA
Benzaldehyde	ug/L	<1 J	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	NA
Benzo(a)anthracene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	NA
Benzo(a)pyrene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	NA
Benzo(b)fluoranthene	ug/L	<1	R	<1	NA	<1	<1 [<1]	R	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
Benzo(g,h,i)perylene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	NA
Benzo(k)fluoranthene	ug/L	<1	R	<1	NA	<1	<1 [<1]	R	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	NA
Biphenyl (1,1-Biphenyl)	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
bis(2-Chloroethoxy)methane	ug/L	<1	<1 J	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
bis(2-Chloroethyl)ether	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1 J	<1 J	<1	<1	<1	<1	<1	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	<2	1	<2	NA	<1	<2 [<2]	<1 B	<2	7 ^a	<2	1	<2	<1	<2 J	<1	<2	<2	NA
Butyl benzylphthalate (BBP)	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	NA
Caprolactam	ug/L	<1	R	<1	NA	2	<1 [<1]	<1	<1	2	<1	<1	<1 J	R	<1 J	<1	18	4	NA
Carbazole	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
Chrysene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	NA
Dibenz(a,h)anthracene	ug/L	<1	<2	<1	NA	<2	<1 [<1]	<2	<1	<1	<1	<2	<1	<2	<1 J	<2	<1	<1	NA
Dibenzofuran	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
Diethyl phthalate	ug/L	<2	<1	<2	NA	<1	<2 [<2]	1	<2	<2	<2	<1	<2 J	2	<2 J	<1	<2	<2	NA
Dimethyl phthalate	ug/L	<2	<1	<2	NA	<1	<2 [<2]	<1	<2	<2	<2	<1	<2 J	<1	<2 J	<1	11	10	NA
Di-n-butylphthalate (DBP)	ug/L	<1	<1	<1	NA	<1	<1 [1]	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	1	NA
Di-n-octyl phthalate (DnOP)	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	NA
Fluoranthene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
Fluorene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
Hexachlorobenzene	ug/L	<0.05	NA	<0.05	NA	NA	<0.05 [<0.05]	NA	<0.05	NA	<0.05	NA	<0.05	NA	<0.05 J	NA	<0.06	<0.05	NA
Hexachlorobutadiene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	NA
Hexachlorocyclopentadiene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
Hexachloroethane	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	NA
Indeno(1,2,3-cd)pyrene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	NA
Isophorone	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
Nitrobenzene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	NA
N-Nitrosodi-n-propylamine	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	NA
N-Nitrosodiphenylamine	ug/L	<1	R	<1	NA	<1	<1 [<1]	R	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	NA
Pentachlorophenol	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
Phenanthrene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1 J	<1	<1 J	<1	<1	<1	NA
Phenol	ug/L	<1	<1	<1	NA	2	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	7	<1	NA
Pyrene	ug/L	<1	<1	<1	NA	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	NA

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		MW-88-1 103 - 140 03/27/12	MW-88-1 103 - 104 12/18/12	MW-91-2 68 - 78 10/13/11	MW-91-2 68 - 78 02/29/12	MW-91-2 68 - 78 12/20/12	MW-91-3 107 - 117 10/19/11	MW-91-3 107 - 117 12/18/12	MW-91-4 116 - 132.5 04/17/12	MW-91-4 116 - 132.5 12/18/12	MW-91-5 112.5 - 128 10/12/11	MW-91-5 112.5 - 128 12/19/12	P3-SB-07 11 - 16 08/18/11	P3-SB-07 11 - 16 01/03/13	P3-SB-28 8 - 13 08/23/11	P3-SB-28 8 - 13 01/03/13	SB-A11-HC24 5 - 9 05/22/12	SB-A11-HE23 19 - 23 05/22/12	SB-A11-HH24 0 - 4 09/07/12
	Units																		
Semivolatile Organics-Filtered																			
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	MW-88-1 103 - 140 03/27/12	MW-88-1 103 - 104 12/18/12	MW-91-2 68 - 78 10/13/11	MW-91-2 68 - 78 02/29/12	MW-91-2 68 - 78 12/20/12	MW-91-3 107 - 117 10/19/11	MW-91-3 107 - 117 12/18/12	MW-91-4 116 - 132.5 04/17/12	MW-91-4 116 - 132.5 12/18/12	MW-91-5 112.5 - 128 10/12/11	MW-91-5 112.5 - 128 12/19/12	P3-SB-07 11 - 16 08/18/11	P3-SB-07 11 - 16 01/03/13	P3-SB-28 8 - 13 08/23/11	P3-SB-28 8 - 13 01/03/13	SB-A11-HC24 5 - 9 05/22/12	SB-A11-HE23 19 - 23 05/22/12	SB-A11-HH24 0 - 4 09/07/12
PCBs																			
Aroclor-1016 (PCB-1016)	ug/L	<0.05	<0.05	<0.05	NA	<0.05	<0.05 [<0.05]	<0.05	NA	NA	<0.05	<0.05	<0.05	<0.05	NA	<0.05	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	<0.05	<0.1	<0.05	NA	<0.1	<0.05 [<0.05]	<0.1	NA	NA	<0.05	<0.1	<0.05	<0.1	NA	<0.1	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	<0.05	<0.1	<0.05	NA	<0.1	<0.05 [<0.05]	<0.1	NA	NA	<0.05	<0.1	<0.05	<0.1	NA	<0.1	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	<0.05	<0.1	<0.05	NA	<0.1	<0.05 [<0.05]	<0.1	NA	NA	<0.05	<0.1	<0.05	<0.1	NA	<0.1	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	<0.05	<0.1	<0.05	NA	<0.1	<0.05 [<0.05]	<0.1	NA	NA	<0.05	<0.1	<0.05	<0.1	NA	<0.1	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	<0.05	<0.1	<0.05	NA	<0.1	<0.05 [<0.05]	<0.1	NA	NA	<0.05	<0.1	<0.05	<0.1	NA	<0.1	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	<0.05	<0.05	<0.05	NA	<0.05	<0.05 [<0.05]	<0.05	NA	NA	<0.05	<0.05	<0.05	<0.05	NA	<0.05	NA	NA	NA
Total PCBs	ug/L	ND	ND	<0.05	NA	ND	<0.05 [<0.05]	ND	NA	NA	<0.05	ND	<0.05	ND	NA	ND	NA	NA	NA
PCBs-Filtered																			
Total PCBs (dissolved)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																			
Antimony	mg/L	<0.002	<0.002	<0.002	<0.005	<0.002	<0.002 [<0.002]	<0.002	<0.002	NA	<0.002	<0.002	<0.005	<0.002	<0.005	<0.002	NA	NA	NA
Arsenic	mg/L	0.009	0.008	0.023^{ab}	0.032^{ab}	0.008	<0.002 [<0.002]	<0.002	0.012^{ab}	NA	0.010	<0.002	<0.0005	<0.002	0.002	0.002	NA	NA	NA
Barium	mg/L	0.103	0.101	0.171	0.205	0.121	0.018 [0.019]	0.024	0.090	NA	0.301	0.097	0.089	0.058	0.067	0.028	NA	NA	NA
Beryllium	mg/L	<0.001	NA	<0.001	<0.001	NA	<0.001 [<0.001]	NA	<0.001	NA	<0.001	NA	0.0005	NA	<0.0005	NA	NA	NA	NA
Boron	mg/L	0.08	0.07	0.04	0.05	<0.04	0.21 J [0.22 J]	0.20	0.42	NA	0.10	0.09	1.22^a	0.99^a	0.404	0.17	NA	NA	NA
Cadmium	mg/L	0.037^{ab}	0.002	<0.001	<0.0005	<0.001	<0.001 [<0.001]	<0.001	<0.001	NA	<0.001	<0.001	<0.0005	<0.001	<0.0005	<0.001	NA	NA	NA
Chromium VI (hexavalent)	mg/L	NA	NA	NA	<0.02	<0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.01	NA	NA	NA
Chromium	mg/L	<0.010	<0.010	0.149^a	0.318^{ab}	<0.010	<0.010 [<0.01]	<0.010	<0.010	NA	<0.010	<0.010	<0.005	<0.010	<0.005	<0.010	NA	NA	NA
Cobalt	mg/L	<0.010	<0.010	<0.010	<0.005	<0.010	<0.010 [<0.01]	<0.010	<0.010	NA	<0.010	<0.010	<0.005	<0.010	<0.005	<0.010	NA	NA	NA
Copper	mg/L	0.041^b	0.010	<0.002	0.015	<0.002	<0.002 [<0.002]	<0.002	0.006	NA	<0.002	<0.002	<0.0025	<0.002	0.004	0.002	NA	NA	NA
Lead	mg/L	0.014^a	0.004	<0.002	0.010^a	<0.002	<0.002 [<0.002]	<0.002	0.006^a	NA	<0.002	<0.002	0.008^a	<0.002	<0.0025	<0.002	NA	NA	NA
Manganese	mg/L	0.062^a	0.031	0.053^a	0.068^a	0.050	0.017 [0.017]	0.018	0.309^a	NA	0.080^a	0.234^a	0.178^a	0.043	0.137^a	0.172^a	NA	NA	NA
Mercury	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001 [<0.0001]	<0.0001	<0.0001	NA	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	NA	NA	NA
Nickel	mg/L	<0.010	<0.010	<0.010	<0.005	<0.010	<0.010 [<0.01]	<0.010	<0.010	NA	<0.010	0.011	0.005	0.011	<0.005	<0.010	NA	NA	NA
Selenium	mg/L	<0.002	<0.002	<0.002	<0.005	<0.002	<0.002 [<0.002]	<0.002	<0.002	NA	<0.002	<0.002	<0.005	0.004	<0.005	<0.002	NA	NA	NA
Silver	mg/L	<0.0002	<0.0002	<0.0002	<0.0005	<0.0002	<0.0002 [<0.0002]	<0.0002	<0.0002	NA	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0002	NA	NA	NA
Thallium	mg/L	<0.002	NA	<0.002	<0.002	NA	<0.002 [<0.002]	NA	<0.002	NA	<0.002	NA	0.0019	NA	0.0008	NA	NA	NA	NA
Vanadium	mg/L	<0.002	<0.002	<0.002	<0.004	<0.002	<0.002 [<0.002]	<0.002	<0.002	NA	<0.002	<0.002	<0.0025	0.002	<0.0025	<0.002	NA	NA	NA
Zinc	mg/L	0.166	0.015	<0.010	0.014	<0.010	0.077 J [0.07 J]	0.054	<0.010	NA	<0.010	0.016	<0.005	<0.010	<0.005	<0.010	NA	NA	NA
Inorganics-Filtered																			
Antimony (dissolved)	mg/L	NA	NA	<0.002	<0.005	NA	NA	NA	NA	<0.002	NA	NA	NA	NA	NA	NA	<0.002	<0.002	NA
Arsenic (dissolved)	mg/L	NA	NA	0.016^{ab}	0.010	NA	NA	NA	NA	0.011^{ab}	NA	NA	NA	NA	NA	NA	<0.002	0.005	NA
Barium (dissolved)	mg/L	NA	NA	0.145	0.129	NA	NA	NA	NA	0.094	NA	NA	NA	NA	NA	NA	0.045	0.026	NA
Beryllium (dissolved)	mg/L	NA	NA	<0.001	<0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	<0.001	NA
Boron	mg/L	NA	NA	<0.04	0.05	NA	NA	NA	NA	0.31	NA	NA	NA	NA	NA	NA	0.84^a	0.43	NA
Cadmium (dissolved)	mg/L	NA	NA	<0.001	<0.0005	NA	NA	NA	NA	<0.001	NA	NA	NA	NA	NA	NA	<0.001	<0.001	NA
Chromium VI (hexavalent) (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	0.084	0.007	NA	NA	NA	NA	<0.010	NA	NA	NA	NA	NA	NA	<0.010	<0.010	NA
Cobalt (dissolved)	mg/L	NA	NA	<0.010	<0.005	NA	NA	NA	NA	<0.010	NA	NA	NA	NA	NA	NA	0.030	0.018	NA
Copper (dissolved)	mg/L	NA	NA	0.003	<0.004	NA	NA	NA	NA	<0.002	NA	NA	NA	NA	NA	NA	0.004	0.002	NA
Lead (dissolved)	mg/L	NA	NA	<0.002	0.005^a	NA	NA	NA	NA	<0.002	NA	NA	NA	NA	NA	NA	<0.002	<0.002	NA
Manganese (dissolved)	mg/L	NA	NA	0.053^a	0.056^a	NA	NA	NA	NA	0.388^a	NA	NA	NA	NA	NA	NA	0.805^a	0.185^a	NA
Mercury (dissolved)	mg/L	NA	NA	<0.0001	<0.0001	NA	NA	NA	NA	<0.0001	NA	NA	NA	NA	NA	NA	<0.0001	<0.0001	NA
Nickel (dissolved)	mg/L	NA	NA	<0.010	<0.005	NA	NA	NA	NA	<0.010	NA	NA	NA	NA	NA	NA	0.079	0.051	NA
Selenium (dissolved)	mg/L	NA	NA	<0.002	<0.005	NA	NA	NA	NA	<0.002	NA	NA	NA	NA	NA	NA	<0.002	<0.002	NA
Silver (dissolved)	mg/L	NA	NA	<0.0002	<0.0005	NA	NA	NA	NA	<0.0002	NA	NA	NA	NA	NA	NA	<0.0002	<0.0002	NA
Thallium (dissolved)	mg/L	NA	NA	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.002	<0.002	NA
Vanadium (dissolved)	mg/L	NA	NA	<0.002	<0.004	NA	NA	NA	NA	<0.002	NA	NA	NA	NA	NA	NA	<0.002	<0.002	NA
Zinc (dissolved)	mg/L	NA	NA	<0.010	<0.005	NA	NA	NA	NA	<0.010	NA	NA	NA	NA	NA	NA	<0.010	<0.010	NA

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A14-DD135 7 - 11 05/17/12	SB-A14-DF122 6.5 - 10.5 05/16/12	SB-A14-DK126 12 - 16 05/17/12	SB-A14-DL123 5.5 - 9.5 05/16/12	SB-A14-DM135 12 - 13 05/18/12	SB-A14-DW133 5 - 9 05/21/12	SB-A14-EA121 5 - 9 05/17/12	SB-A15-HC110 10 - 14 09/18/12	SB-A15-HC113 8.5 - 12.5 05/16/12	SB-A15-HC114 5 - 9 05/16/12	SB-A15-HE114 6 - 10 05/15/12	SB-A15-HG114 5 - 9 09/18/12	SB-A16-HD162 15 - 20 06/06/12	SB-A16-HP165 16 - 20 09/20/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
1,2-Dibromoethane (Ethylene dibromide)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
1,2-Dichlorobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
1,4-Dichlorobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
2-Hexanone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<20	<20	<20	NA	NA	<10 J
Acetone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<50	<50	<97 BJ	NA	NA	<10 J
Bromodichloromethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
Bromoform	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
Bromomethane (Methyl bromide)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Carbon disulfide	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
Carbon tetrachloride	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
Chlorobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
Chloroform (Trichloromethane)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
Chloromethane (Methyl chloride)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<5.0	<5.0	<5.0	NA	NA	<1
cis-1,3-Dichloropropene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
Dichlorodifluoromethane (CFC-12)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Methyl acetate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10
Methylene chloride	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
Styrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
trans-1,3-Dichloropropene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
Trichlorofluoromethane (CFC-11)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Trifluorotrichloroethane (Freon 113)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0 J	NA	NA	<1
1,4-Dioxane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	36	<5	<5	NA	NA	<5
1,1,1-Trichloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	0.89 J	NA	NA	<1
1,1,2,2-Tetrachloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
1,1,2-Trichloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
1,1-Dichloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	1.3 J	0.62 J	<2.0	NA	NA	<1
1,1-Dichloroethene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
1,2-Dichloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
cis-1,2-Dichloroethene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
trans-1,2-Dichloroethene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
Trichloroethene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
Tetrachloroethene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
Vinyl chloride	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
Chloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
Benzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
Ethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
Toluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
o-Xylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
m&p-Xylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<4.0	<4.0	<4.0	NA	NA	<2
Xylene (total)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<6	<6	<6	NA	NA	<3
Methyl tert butyl ether (MTBE)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0 J	<2.0 J	<2.0	NA	NA	<1
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<20	<20	<20	NA	NA	<10 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<20	<20	<20	NA	NA	<10
1,2,4-Trichlorobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
1,2,4-Trimethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	NA
1,3,5-Trimethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	NA
1,2-Dichloropropane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
1,3-Dichlorobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
Cyclohexane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
Methyl cyclohexane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
Dibromochloromethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
Isopropyl benzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	<1
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	NA

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A14-DD135 7 - 11 05/17/12	SB-A14-DF122 6.5 - 10.5 05/16/12	SB-A14-DK126 12 - 16 05/17/12	SB-A14-DL123 5.5 - 9.5 05/16/12	SB-A14-DM135 12 - 13 05/18/12	SB-A14-DW133 5 - 9 05/21/12	SB-A14-EA121 5 - 9 05/17/12	SB-A15-HC110 10 - 14 09/18/12	SB-A15-HC113 8.5 - 12.5 05/16/12	SB-A15-HC114 5 - 9 05/16/12	SB-A15-HE114 6 - 10 05/15/12	SB-A15-HG114 5 - 9 09/18/12	SB-A16-HD162 15 - 20 06/06/12	SB-A16-HP165 16 - 20 09/20/12
Units															
Semivolatile Organics															
1-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) et	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1 J
2,4-Dichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1 J
2,4,5-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1 J
2,4-Dimethylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1 J
2,4-Dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1 J	<1	<1	<1	<1 J
2,4-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
2,6-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
2-Chloronaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
2-Chlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1 J
2-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
2-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
2-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
2-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1 J
3&4-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
3,3'-Dichlorobenzidine	ug/L	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
3-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
4-Bromophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
4-Chloroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	<2	<6	<2	<2	<2	<2 J	<2 J
4-Chlorophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
4-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
4-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1 J
Anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Acenaphthene	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Acenaphthylene	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Acetophenone	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Atrazine	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Benzaldehyde	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Benzo(a)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Benzo(a)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Benzo(b)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Benzo(k)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Biphenyl (1,1'-Biphenyl)	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
bis(2-Chloroethoxy)methane	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
bis(2-Chloroethyl)ether	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	NA	NA	NA	NA	NA	NA	<2	<6	<2	14 ^a	<2	<2	<3 B
Butyl benzylphthalate (BBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Caprolactam	ug/L	NA	NA	NA	NA	NA	NA	NA	30 B	<3	<1	<1	19 B	<1	22
Carbazole	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Chrysene	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Dibenz(a,h)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Dibenzofuran	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Diethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	<2	<6	<2	<2	<2	<2	<2
Dimethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	<2	<6	<2	4	<2	<2	<2
Di-n-butylphthalate (DBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	<1 B	<3	<1	<1	<1	<1	<1 B
Di-n-octyl phthalate (DnOP)	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Fluorene	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Hexachlorobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobutadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Hexachloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Indeno(1,2,3-cd)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Isophorone	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Nitrobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
N-Nitrosodi-n-propylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
N-Nitrosodiphenylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Pentachlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Phenanthrene	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1
Phenol	ug/L	NA	NA	NA	NA	NA	NA	NA	4	<3	<1	<1	3	<1	3
Pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<3	<1	<1	<1	<1	<1

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

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	Units														
Semivolatile Organics-Filtered															
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A14-DD135 7 - 11 05/17/12	SB-A14-DF122 6.5 - 10.5 05/16/12	SB-A14-DK126 12 - 16 05/17/12	SB-A14-DL123 5.5 - 9.5 05/16/12	SB-A14-DM135 12 - 13 05/18/12	SB-A14-DW133 5 - 9 05/21/12	SB-A14-EA121 5 - 9 05/17/12	SB-A15-HC110 10 - 14 09/18/12	SB-A15-HC113 8.5 - 12.5 05/16/12	SB-A15-HC114 5 - 9 05/16/12	SB-A15-HE114 6 - 10 05/15/12	SB-A15-HG114 5 - 9 09/18/12	SB-A16-HD162 15 - 20 06/06/12	SB-A16-HP165 16 - 20 09/20/12
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs-Filtered															
Total PCBs (dissolved)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	NA	NA
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.1	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.1	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.1	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.1	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.1	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	NA	NA	NA
Inorganics															
Antimony	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered															
Antimony (dissolved)	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	<0.002	<0.002	<0.002	NA	<0.002	<0.002
Arsenic (dissolved)	mg/L	0.006	<0.002	<0.002	<0.002	0.012^{ab}	<0.002	<0.002	NA	0.024^{ab}	0.009	<0.002	NA	0.010	0.025^{ab}
Barium (dissolved)	mg/L	0.108	0.082	0.036	0.093	0.075	0.014	0.056	NA	0.149	0.104	0.016	NA	0.063	0.139
Beryllium (dissolved)	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	NA	<0.001	NA
Boron	mg/L	0.10	0.11	0.27	0.12	0.27	0.10	0.33	NA	0.12	0.21	0.10	NA	0.11	0.28
Cadmium (dissolved)	mg/L	<0.001	<0.001	<0.001	<0.001	0.004	<0.001	<0.001	NA	<0.001	<0.001	<0.001	NA	<0.001	<0.001
Chromium VI (hexavalent) (dissolved)	mg/L	<0.02	23.2^{ab}	<0.02	<0.02	<0.02	<0.02	<0.02	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	<0.010	12.0^{ab}	0.010	<0.010	<0.010	<0.010	<0.010	NA	<0.010	<0.010	<0.010	NA	<0.010	<0.010
Cobalt (dissolved)	mg/L	<0.010	<0.010	<0.010	0.011	<0.010	<0.010	<0.010	NA	<0.010	<0.010	<0.010	NA	<0.010	<0.010
Copper (dissolved)	mg/L	<0.002	0.002	<0.002	<0.002	0.007	<0.002	0.002	NA	<0.002	<0.002	<0.002	NA	<0.002	<0.002
Lead (dissolved)	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	<0.002	<0.002	<0.002	NA	<0.002	<0.002
Manganese (dissolved)	mg/L	0.959^a	0.060^a	0.115^a	0.828^a	<0.010	0.018	0.312^a	NA	1.44^a	0.592^a	0.055^a	NA	0.361^a	0.724^a
Mercury (dissolved)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	NA	<0.0001	<0.0001	<0.0001	NA	<0.0001	<0.0001
Nickel (dissolved)	mg/L	<0.010	0.082	<0.010	0.011	0.040	<0.010	<0.010	NA	0.019	<0.010	<0.010	NA	<0.010	<0.010
Selenium (dissolved)	mg/L	<0.002	0.002	<0.002	<0.002	0.645^{ab}	<0.002	<0.002	NA	<0.002	<0.002	<0.002	NA	<0.002	<0.002
Silver (dissolved)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	NA	<0.0002	<0.0002	<0.0002 J	NA	<0.0002	<0.0002
Thallium (dissolved)	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	<0.002	<0.002	<0.002	NA	<0.002	NA
Vanadium (dissolved)	mg/L	0.007^a	<0.002	<0.002	<0.002	0.501^{ab}	<0.002	<0.002	NA	<0.002	<0.002	<0.002	NA	<0.002	<0.002
Zinc (dissolved)	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA	<0.010	<0.010	<0.010	NA	<0.010	<0.010

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A16-HP178 19 - 23 11/28/12	SB-A16-HQ168 5 - 9 11/09/12	SB-A16-HU160 10 - 14 06/06/12	SB-A16-HU171 5 - 9 11/09/12	SB-A16-HU178 14 - 18 11/28/12	SB-A16-HX165 7 - 11 09/20/12	SB-A16-HX176 19 - 23 11/28/12	SB-A16-HY168 6 - 10 11/09/12	SB-A16-IE168 19 - 23 11/28/12	SB-A17-DC142 3 - 7 05/11/12	SB-A17-DC147 4.5 - 8.5 05/14/12	SB-A17-DF146 5 - 9 05/11/12	SB-A17-DU143 1 - 5 09/11/12	SB-A17-DU147 0 - 4 09/11/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
1,2-Dibromoethane (Ethylene dibromide)	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
1,2-Dichlorobenzene	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
1,4-Dichlorobenzene	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
2-Hexanone	ug/L	NA	NA	NA	NA	NA	<10	NA	NA	NA	<20	<20	<20	<50	<50
Acetone	ug/L	NA	NA	NA	NA	NA	<10	NA	NA	NA	<51 BJ	<53 BJ	<53 BJ	<50	93 Y
Bromodichloromethane	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
Bromoform	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
Bromomethane (Methyl bromide)	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	<5	<5
Carbon disulfide	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
Carbon tetrachloride	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
Chlorobenzene	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
Chloroform (Trichloromethane)	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
Chloromethane (Methyl chloride)	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<5.0	<5.0	<5.0	<5	<5
cis-1,3-Dichloropropene	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
Dichlorodifluoromethane (CFC-12)	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	<5	<5
Methyl acetate	ug/L	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	<50	<50
Methylene chloride	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
Styrene	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
trans-1,3-Dichloropropene	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
Trichlorofluoromethane (CFC-11)	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	<5	<5
Trifluorotrichloroethane (Freon 113)	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
1,4-Dioxane	ug/L	NA	NA	NA	NA	NA	<5	NA	NA	NA	<5	<5	<5	NA	<5
1,1,1-Trichloroethane	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	0.50 J	25	29 Y	<5
1,1,2,2-Tetrachloroethane	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
1,1,2-Trichloroethane	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
1,1-Dichloroethane	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	5.6	357 Y	<5
1,1-Dichloroethene	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
1,2-Dichloroethane	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
cis-1,2-Dichloroethene	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	39 Y	<5
trans-1,2-Dichloroethene	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
Trichloroethene	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	0.91 J	<2.0	<2.0	<5	<5
Tetrachloroethene	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	2.1 J	<2.0	<2.0	<5	<5
Vinyl chloride	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
Chloroethane	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
Benzene	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	13 Y ^a	171 Y ^{ah}
Ethylbenzene	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	697 Y ^{ab}
Toluene	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	550 Y ^b
o-Xylene	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	836 Y ^{ab}
m&p-Xylene	ug/L	NA	NA	NA	NA	NA	<2	NA	NA	NA	<4.0	<4.0	<4.0	<10	1,600 Y ^{ab}
Xylene (total)	ug/L	NA	NA	NA	NA	NA	<3	NA	NA	NA	<6	<6	<6	<15	2,436 ^{ab}
Methyl tert butyl ether (MTBE)	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	NA	NA	NA	NA	NA	<10	NA	NA	NA	<20	<20	<20	<50	<50
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	NA	NA	NA	NA	NA	<10	NA	NA	NA	<20	<20	<20	<50	<50
1,2,4-Trichlorobenzene	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
1,2,4-Trimethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA
1,3,5-Trimethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA
1,2-Dichloropropane	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
1,3-Dichlorobenzene	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
Cyclohexane	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	113 Y
Methyl cyclohexane	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	42 Y
Dibromochloromethane	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	<5
Isopropyl benzene	ug/L	NA	NA	NA	NA	NA	<1	NA	NA	NA	<2.0	<2.0	<2.0	<5	16 Y
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A16-HP178 19 - 23 11/28/12	SB-A16-HQ168 5 - 9 11/09/12	SB-A16-HU160 10 - 14 06/06/12	SB-A16-HU171 5 - 9 11/09/12	SB-A16-HU178 14 - 18 11/28/12	SB-A16-HX165 7 - 11 09/20/12	SB-A16-HX176 19 - 23 11/28/12	SB-A16-HY168 6 - 10 11/09/12	SB-A16-IE168 19 - 23 11/28/12	SB-A17-DC142 3 - 7 05/11/12	SB-A17-DC147 4.5 - 8.5 05/14/12	SB-A17-DF146 5 - 9 05/11/12	SB-A17-DU143 1 - 5 09/11/12	SB-A17-DU147 0 - 4 09/11/12
	Units														
Semivolatile Organics															
1-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4	2
2-Methyl-4,6-dinitrophenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) et	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
2,4,6-Trichlorophenol	ug/L	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	<1	NA	NA
2,4-Dichlorophenol	ug/L	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	<1	NA	NA
2,4,5-Trichlorophenol	ug/L	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	<1	NA	NA
2,4-Dimethylphenol	ug/L	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	<1	NA	NA
2,4-Dinitrophenol	ug/L	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	<1	NA	NA
2,4-Dinitrotoluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
2,6-Dinitrotoluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
2-Chloronaphthalene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
2-Chlorophenol	ug/L	<1	<1 J	<1	<1 J	<1	<1 J	<1	<1 J	<1	<1	<1	<1	NA	NA
2-Methylnaphthalene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	4
2-Methylphenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
2-Nitroaniline	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
2-Nitrophenol	ug/L	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	<1	NA	NA
3&4-Methylphenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
3,3'-Dichlorobenzidine	ug/L	<1	<1	<0.05	<1	<1	<0.05	<1	<1	<1	<0.05	<0.05	<0.05	NA	NA
Naphthalene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	49 ^b
3-Nitroaniline	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
4-Bromophenyl phenyl ether	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
4-Chloro-3-methylphenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
4-Chloroaniline	ug/L	<2 J	<2	<2	<2	<2 J	<2 J	<2 J	<2	<2 J	<2	<2	<2	NA	NA
4-Chlorophenyl phenyl ether	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
4-Nitroaniline	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
4-Nitrophenol	ug/L	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	<1	NA	NA
Anthracene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1
Acenaphthene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1
Acenaphthylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1
Acetophenone	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
Atrazine	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
Benzaldehyde	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
Benzo(a)anthracene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1
Benzo(a)pyrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1
Benzo(b)fluoranthene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4 J	<1 J
Benzo(g,h,i)perylene	ug/L	<1 J	<1	<1	<1	<1 J	<1	<1 J	<1	<1 J	<1	<1	<1	<4	<1
Benzo(k)fluoranthene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1
Biphenyl (1,1'-Biphenyl)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
bis(2-Chloroethoxy)methane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
bis(2-Chloroethyl)ether	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	<2	<2	<2	<2	<2	<2	<2	<2 B	<2	<2	<2	<2	NA	NA
Butyl benzylphthalate (BBP)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
Caprolactam	ug/L	4	10	4	16	2	6	8	10	3	<1	<1	<1	NA	NA
Carbazole	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
Chrysene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1
Dibenz(a,h)anthracene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1
Dibenzofuran	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
Diethyl phthalate	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	NA	NA
Dimethyl phthalate	ug/L	<2	<2	<8 B	<2	<2	<2	<2	<2	<2	<2	5	10	NA	NA
Di-n-butylphthalate (DBP)	ug/L	<1	<1	<1	<1 B	<1	<1	<1	<1 B	<1	<1	<1	<1	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	NA	NA
Fluoranthene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1
Fluorene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1
Hexachlorobenzene	ug/L	<1	<1	<0.05	<1	<1	<0.05	<1	<1	<1	<0.05	<0.05	<0.05	NA	NA
Hexachlorobutadiene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
Hexachlorocyclopentadiene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
Hexachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1
Isophorone	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
Nitrobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
N-Nitrosodi-n-propylamine	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
N-Nitrosodiphenylamine	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
Pentachlorophenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
Phenanthrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1
Phenol	ug/L	<1	2	1	3	<1	1	2	1	<1	<1	<1	<1	NA	NA
Pyrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A16-HP178 19 - 23 11/28/12	SB-A16-HQ168 5 - 9 11/09/12	SB-A16-HU160 10 - 14 06/06/12	SB-A16-HU171 5 - 9 11/09/12	SB-A16-HU178 14 - 18 11/28/12	SB-A16-HX165 7 - 11 09/20/12	SB-A16-HX176 19 - 23 11/28/12	SB-A16-HY168 6 - 10 11/09/12	SB-A16-IE168 19 - 23 11/28/12	SB-A17-DC142 3 - 7 05/11/12	SB-A17-DC147 4.5 - 8.5 05/14/12	SB-A17-DF146 5 - 9 05/11/12	SB-A17-DU143 1 - 5 09/11/12	SB-A17-DU147 0 - 4 09/11/12
	Units														
Semivolatile Organics-Filtered															
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A16-HP178 19 - 23 11/28/12	SB-A16-HQ168 5 - 9 11/09/12	SB-A16-HU160 10 - 14 06/06/12	SB-A16-HU171 5 - 9 11/09/12	SB-A16-HU178 14 - 18 11/28/12	SB-A16-HX165 7 - 11 09/20/12	SB-A16-HX176 19 - 23 11/28/12	SB-A16-HY168 6 - 10 11/09/12	SB-A16-IE168 19 - 23 11/28/12	SB-A17-DC142 3 - 7 05/11/12	SB-A17-DC147 4.5 - 8.5 05/14/12	SB-A17-DF146 5 - 9 05/11/12	SB-A17-DU143 1 - 5 09/11/12	SB-A17-DU147 0 - 4 09/11/12
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs-Filtered															
Total PCBs (dissolved)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	NA
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	NA	NA
Inorganics															
Antimony	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered															
Antimony (dissolved)	mg/L	NA	<0.002	<0.002	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	<0.002	<0.002	NA	NA
Arsenic (dissolved)	mg/L	<0.002	<0.001	0.016 ^{ab}	0.032 ^{ab}	0.014 ^{ab}	0.010	0.008	0.007	0.024 ^{ab}	<0.002	<0.002	0.003	NA	NA
Barium (dissolved)	mg/L	NA	0.23	0.084	0.13	NA	0.238	NA	0.20	NA	0.030	0.043	0.062	NA	NA
Beryllium (dissolved)	mg/L	NA	NA	<0.001	NA	NA	NA	NA	NA	NA	<0.001	<0.001	<0.001	NA	NA
Boron	mg/L	NA	0.25	0.13	0.19	NA	0.27	NA	0.27	NA	0.19	0.21	0.13	NA	NA
Cadmium (dissolved)	mg/L	NA	<0.001	<0.001	<0.001	NA	<0.001	NA	<0.001	NA	<0.001	<0.001	<0.001	NA	NA
Chromium VI (hexavalent) (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	<0.002	<0.010	<0.002	NA	<0.010	NA	<0.002	NA	<0.010	<0.010	<0.010	NA	NA
Cobalt (dissolved)	mg/L	<0.010	<0.002	<0.010	<0.002	<0.010	<0.010	<0.010	<0.002	<0.010	<0.010	<0.010	0.010	NA	NA
Copper (dissolved)	mg/L	NA	<0.002	<0.002	<0.002	NA	<0.002	NA	<0.002	NA	0.014	<0.002	<0.002	NA	NA
Lead (dissolved)	mg/L	NA	0.002	<0.002	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	<0.002	<0.002	NA	NA
Manganese (dissolved)	mg/L	0.228 ^a	0.139 ^a	0.554 ^a	0.667 ^a	0.315 ^a	0.628 ^a	0.354 ^a	0.577 ^a	0.606 ^a	0.011	1.25 ^a	0.960 ^a	NA	NA
Mercury (dissolved)	mg/L	NA	<0.0001	<0.0001	<0.0001	NA	<0.0001	NA	<0.0001	NA	<0.0001	<0.0001	<0.0001	NA	NA
Nickel (dissolved)	mg/L	NA	0.006	<0.010	0.014	NA	<0.010	NA	0.003	NA	<0.010	<0.010	0.013	NA	NA
Selenium (dissolved)	mg/L	<0.002	0.014 ^b	<0.002	<0.001	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.002	<0.002	NA	NA
Silver (dissolved)	mg/L	NA	<0.0002	<0.0002	<0.0002	NA	<0.0002	NA	<0.0002	NA	<0.0002	<0.0002	<0.0002	NA	NA
Thallium (dissolved)	mg/L	NA	NA	<0.002	NA	NA	NA	NA	NA	NA	<0.002	<0.002	<0.002	NA	NA
Vanadium (dissolved)	mg/L	NA	<0.002	<0.002	<0.002	NA	<0.002	NA	<0.002	NA	0.002	<0.002	<0.002	NA	NA
Zinc (dissolved)	mg/L	0.014	0.37 ^b	<0.010	0.01	0.013	<0.010	0.042	0.04	0.037	<0.010	<0.010	<0.010	NA	NA

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A17-DY143 4.5 - 8.5 09/10/12	SB-A17-EC135 7 - 11 09/11/12	SB-A17-EC147 1 - 5 09/11/12	SB-A17-EC156 5 - 9 09/19/12	SB-A17-EH142 8 - 12 09/10/12	SB-A18-BZ146 20 - 24 09/12/12	SB-A18-CD150 20 - 24 09/12/12	SB-A18-CI138 8 - 12 05/15/12	SB-A18-CJ150 9 - 13 05/15/12	SB-A18-CJ153 4 - 8 09/12/12	SB-A19-HQ150 15 - 19 09/18/12	UNK-09 11 - 16 10/19/11	UNK-09 11 - 16 01/03/13	UNK-10 11 - 16 10/19/11	UNK-10 11 - 16 01/03/13	UNK-11 6.5 - 11.5 11/29/11
	Units																
Volatile Organics																	
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<0.05 [<0.05]	<1	<0.05	<1	<0.05
1,2-Dibromoethane (Ethylene dibromide)	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<0.02 [<0.02]	<1	<0.02	<1	<0.02
1,2-Dichlorobenzene	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
1,4-Dichlorobenzene	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
2-Hexanone	ug/L	<200	<10	<50 [<10]	<10	<10	NA	NA	<20	<20	NA	<10	<10 [<10]	<10	<10	<10	<10
Acetone	ug/L	<200	<10	<50 [<10]	<10	<10	NA	NA	<120 BJ	<67 BJ	NA	<10	<10 J [<10 J]	<10	<10 J	<10	<10
Bromodichloromethane	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
Bromoform	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
Bromomethane (Methyl bromide)	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	NA	NA	NA	<1	<1 [<1]	<1	<1	<1	<1
Carbon disulfide	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
Chlorobenzene	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
Chloroform (Trichloromethane)	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
Chloromethane (Methyl chloride)	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<5.0	<5.0	NA	<1	<1 [<1]	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
Dichlorodifluoromethane (CFC-12)	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	NA	NA	NA	<1	<1 [<1]	<1	<1	<1	<1
Methyl acetate	ug/L	<200	<10	<50 [<10]	<10	<10	NA	NA	NA	NA	NA	<10	<10 [<10]	<10	<10	<10	<10
Methylene chloride	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
Styrene	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
Trichlorofluoromethane (CFC-11)	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	NA	NA	NA	<1	<1 [<1]	<1	<1	<1	<1
Trifluorotrichloroethane (Freon 113)	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0 J	<2.0 J	NA	<1	<1 [<1]	<1	<1	<1	<1
1,4-Dioxane	ug/L	<5	NA	NA	<5	<5	NA	NA	<5	<5	NA	<5	<5 [<5]	<5	<5	<5	<5
1,1,1-Trichloroethane	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	90 Y	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	1 [1]	1	<1	<1	1
1,1-Dichloroethene	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
trans-1,2-Dichloroethene	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
Trichloroethene	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
Tetrachloroethene	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
Vinyl chloride	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
Chloroethane	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
Benzene	ug/L	270 Y ^{abh}	<1	5 J [<1 J]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
Ethylbenzene	ug/L	280 Y ^{ab}	<1	121 J [<1 J] ^{ab}	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
Toluene	ug/L	1,280 Y ^{ab}	<1	61 J [<1 J]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
o-Xylene	ug/L	400 Y ^{ab}	<1	42 J [<1 J] ^b	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
m&p-Xylene	ug/L	940 Y ^{ab}	<2	240 J [<2 J] ^b	<2	<2	NA	NA	<4.0	<4.0	NA	<2	<2 [<2]	<2	<2	<2	<2
Xylene (total)	ug/L	1,340 ^{ab}	<3	282 J [<3] ^{ab}	<3	<3	NA	NA	<6	<6	NA	<3	<3 [<3]	<3	<3	<3	<3
Methyl tert butyl ether (MTBE)	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<2 J
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	<200	<10	<50 [<10]	<10	<10	NA	NA	<20	<20	NA	<10	<10 [<10]	<10	<10	<10	<10
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	<200	<10	<50 [<10]	<10	<10	NA	NA	<20	<20	NA	<10	<10 [<10]	<10	<10	<10	<10
1,2,4-Trichlorobenzene	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
1,3-Dichlorobenzene	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
Cyclohexane	ug/L	70 Y	<1	9 J [<1 J]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<3 J
Methyl cyclohexane	ug/L	40 Y	<1	7 J [<1 J]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
Dibromochloromethane	ug/L	<20	<1	<5 [<1]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
Isopropyl benzene	ug/L	<20	<1	6 J [<1 J]	<1	<1	NA	NA	<2.0	<2.0	NA	<1	<1 [<1]	<1	<1	<1	<1
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	<2.0	0.89 J	NA	NA	NA	NA	NA	NA	NA

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A17-DY143 4.5 - 8.5 09/10/12	SB-A17-EC135 7 - 11 09/11/12	SB-A17-EC147 1 - 5 09/11/12	SB-A17-EC156 5 - 9 09/19/12	SB-A17-EH142 8 - 12 09/10/12	SB-A18-BZ146 20 - 24 09/12/12	SB-A18-CD150 20 - 24 09/12/12	SB-A18-CI138 8 - 12 05/15/12	SB-A18-CJ150 9 - 13 05/15/12	SB-A18-CJ153 4 - 8 09/12/12	SB-A19-HQ150 15 - 19 09/18/12	UNK-09 11 - 16 10/19/11	UNK-09 11 - 16 01/03/13	UNK-10 11 - 16 10/19/11	UNK-10 11 - 16 01/03/13	UNK-11 6.5 - 11.5 11/29/11
Semivolatile Organics																	
1-Methylnaphthalene	ug/L	<5	<1	<1 [<1]	<1	<1	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) et	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
2,4,6-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
2,4-Dichlorophenol	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
2,4,5-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
2,4-Dimethylphenol	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	3	<1	NA	<1 [<1]	<1	<1	<1	<1
2,4-Dinitrophenol	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
2,4-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
2,6-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
2-Chloronaphthalene	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
2-Chlorophenol	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
2-Methylnaphthalene	ug/L	<5	<1	1 [<1]	<1 J	<1	<1	<1	<1	<2	<1	<1 J	<1 [<1]	<1	<1	<1	<1
2-Methylphenol	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
2-Nitroaniline	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
2-Nitrophenol	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
3&4-Methylphenol	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	5	<1	NA	<1 [<1]	<1	<1	<1	<1
3,3'-Dichlorobenzidine	ug/L	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.06	NA	<0.05 [<0.05]	NA	<0.05	NA	<0.05
Naphthalene	ug/L	13 ^b	<1	9 J [<1 J]	<1 J	<1	<1	<1	<1	<2	<1	<1 J	<1 [<1]	<1	<1	<1	<1
3-Nitroaniline	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
4-Bromophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
4-Chloro-3-methylphenol	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
4-Chloroaniline	ug/L	NA	NA	NA	NA	NA	R	R	<2	<4	R	NA	<2 [<2]	<1	<2	<1 J	<2
4-Chlorophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
4-Nitroaniline	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
4-Nitrophenol	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
Anthracene	ug/L	<5	<1	<1 [<1]	<1 J	<1	<1	<1	<1	<2	<1	<1 J	<1 [<1]	<1	<1	<1	<1
Acenaphthene	ug/L	<5	<1	<1 [<1]	<1	<1	<1	<1	<1	<2	<1	<1	<1 [<1]	<1	<1	<1	<1
Acenaphthylene	ug/L	<5	<1	<1 [<1]	<1	<1	<1	<1	<1	<2	<1	<1	<1 [<1]	<1	<1	<1	<1
Acetophenone	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
Atrazine	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
Benzaldehyde	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	1	NA	<1 [<1]	<1	<1	<1	<1
Benzo(a)anthracene	ug/L	<5	<1	<1 [<1]	<1 J	<1	<1	<1	<1	<2	<1	<1 J	<1 [<1]	<1	<1	<1	<1
Benzo(a)pyrene	ug/L	<5	<1	<1 [<1]	<1 J	<1	<1	<1	<1	<2	<1	<1 J	<1 [<1]	<1	<1	<1	<1
Benzo(b)fluoranthene	ug/L	<5 J	<1 J	<1 J [<1 J]	<1 J	<1 J	<1	<1	<1	<2	<1	<1 J	<1 [<1]	<1	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	<5	<1	<1 [<1]	<1 J	<1	<1	<1	<1	<2	<1	<1 J	<1 [<1]	<1	<1	<1	<1
Benzo(k)fluoranthene	ug/L	<5	<1	<1 [<1]	<1	<1	<1	<1	<1	<2	<1	<1	<1 [<1]	<1	<1	<1	<1
Biphenyl (1,1'-Biphenyl)	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
bis(2-Chloroethoxy)methane	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
bis(2-Chloroethyl)ether	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	NA	NA	NA	NA	<2	<2	<2	<4	<3 B	NA	<2 [<2]	<1	<2	1	<2
Butyl benzylphthalate (BBP)	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
Caprolactam	ug/L	NA	NA	NA	NA	NA	27	8	<1	<2	24	NA	<1 [<1]	<1	<1	<1	2
Carbazole	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
Chrysene	ug/L	<5	<1	<1 [<1]	<1 J	<1	<1	<1	<1	<2	<1	<1 J	<1 [<1]	<1	<1	<1	<1
Dibenz(a,h)anthracene	ug/L	<5	<1	<1 [<1]	<1 J	<1	<1	<1	<1	<2	<1	<1 J	<1 [<1]	<2	<1	<2	<1
Dibenzofuran	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
Diethyl phthalate	ug/L	NA	NA	NA	NA	NA	<2	<2	<2	<4	<2	NA	<2 [<2]	<1	<2	<1	<2
Dimethyl phthalate	ug/L	NA	NA	NA	NA	NA	<2	<2	<2	12	<2	NA	<2 [<2]	<1	<2	<1	<2
Di-n-butylphthalate (DBP)	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<3 B	NA	<1 [<1]	<1	2	<1 B	<1
Di-n-octyl phthalate (DnOP)	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	1
Fluoranthene	ug/L	<5	<1	<1 [<1]	<1 J	<1	<1	<1	<1	<2	<1	<1 J	<1 [<1]	<1	<1	<1	<1
Fluorene	ug/L	<5	<1	<1 [<1]	<1 J	<1	<1	<1	<1	<2	<1	<1 J	<1 [<1]	<1	<1	<1	<1
Hexachlorobenzene	ug/L	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.06	NA	<0.05 [<0.05]	NA	<0.05	NA	<0.05
Hexachlorobutadiene	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
Hexachlorocyclopentadiene	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
Hexachloroethane	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
Indeno(1,2,3-cd)pyrene	ug/L	<5	<1	<1 [<1]	<1 J	<1	<1	<1	<1	<2	<1	<1 J	<1 [<1]	<1	<1	<1	<1
Isophorone	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
Nitrobenzene	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
N-Nitrosodi-n-propylamine	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
N-Nitrosodiphenylamine	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
Pentachlorophenol	ug/L	NA	NA	NA	NA	NA	<1	<1	<1	<2	<1	NA	<1 [<1]	<1	<1	<1	<1
Phenanthrene	ug/L	<5	<1	<1 [<1]	<1 J	<1	<1	<1	<1	<2	<1	<1 J	<1 [<1]	<1	<1	<1	<1
Phenol	ug/L	NA	NA	NA	NA	NA	2	3	<1	16	2	NA	<1 [<1]	<1	<1	<1	<1
Pyrene	ug/L	<5	<1	<1 [<1]	<1 J	<1	<1	<1	<1	<2	<1	<1 J	<1 [<1]	<1	<1	<1	<1

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A17-DY143 4.5 - 8.5 09/10/12	SB-A17-EC135 7 - 11 09/11/12	SB-A17-EC147 1 - 5 09/11/12	SB-A17-EC156 5 - 9 09/19/12	SB-A17-EH142 8 - 12 09/10/12	SB-A18-BZ146 20 - 24 09/12/12	SB-A18-CD150 20 - 24 09/12/12	SB-A18-CI138 8 - 12 05/15/12	SB-A18-CJ150 9 - 13 05/15/12	SB-A18-CJ153 4 - 8 09/12/12	SB-A19-HQ150 15 - 19 09/18/12	UNK-09 11 - 16 10/19/11	UNK-09 11 - 16 01/03/13	UNK-10 11 - 16 10/19/11	UNK-10 11 - 16 01/03/13	UNK-11 6.5 - 11.5 11/29/11
	Units																
Semivolatile Organics-Filtered																	
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A17-DY143 4.5 - 8.5 09/10/12	SB-A17-EC135 7 - 11 09/11/12	SB-A17-EC147 1 - 5 09/11/12	SB-A17-EC156 5 - 9 09/19/12	SB-A17-EH142 8 - 12 09/10/12	SB-A18-BZ146 20 - 24 09/12/12	SB-A18-CD150 20 - 24 09/12/12	SB-A18-CI138 8 - 12 05/15/12	SB-A18-CJ150 9 - 13 05/15/12	SB-A18-CJ153 4 - 8 09/12/12	SB-A19-HQ150 15 - 19 09/18/12	UNK-09 11 - 16 10/19/11	UNK-09 11 - 16 01/03/13	UNK-10 11 - 16 10/19/11	UNK-10 11 - 16 01/03/13	UNK-11 6.5 - 11.5 11/29/11
	Units																
PCBs																	
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05 [<0.05]	<0.05	<0.05	<0.05	<0.05
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05 [<0.05]	<0.1	<0.05	<0.1	<0.05
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05 [<0.05]	<0.1	<0.05	<0.1	<0.05
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05 [<0.05]	<0.1	<0.05	<0.1	<0.05
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05 [<0.05]	<0.1	<0.05	<0.1	<0.05
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05 [<0.05]	<0.1	<0.05	<0.1	<0.05
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05 [<0.05]	<0.05	<0.05	<0.05	<0.05
Total PCBs	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05 [<0.05]	ND	<0.05	ND	<0.05
PCBs-Filtered																	
Total PCBs (dissolved)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																	
Antimony	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.015 [0.014] ^{ab}	0.006	<0.002	<0.002	0.007
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.102 [0.103]	0.052	0.045	0.045	0.146
Beryllium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.001 [<0.001]	NA	<0.001	NA	<0.001
Boron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.19 J [0.19 J]	0.13	0.18 J	0.13	0.10
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 [0.002]	<0.001	0.003	<0.001	0.001
Chromium VI (hexavalent)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.01	NA	<0.01	NA
Chromium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.010 [<0.01]	<0.010	<0.010	<0.010	<0.010
Cobalt	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.010 [<0.01]	<0.010	<0.010	<0.010	<0.010
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.004 [0.004]	0.004	0.005	0.004	0.002
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.002 [<0.002]	<0.002	0.002	<0.002	0.003
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.029 [0.029]	0.016	0.098 ^a	0.090 ^a	0.094 ^a
Mercury	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0001 [<0.0001]	<0.0001	<0.0001	<0.0001	<0.0001
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.010 [<0.01]	<0.010	<0.010	<0.010	<0.010
Selenium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002
Silver	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002 [<0.0002]	<0.0002	<0.0002	<0.0002	<0.0002
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.002 [<0.002]	NA	<0.002	NA	<0.002
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.002 [<0.002]	0.002	<0.002	<0.002	<0.002
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.081 J [0.08 J]	0.026	0.166 J	0.076	0.032
Inorganics-Filtered																	
Antimony (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.002	0.003	NA	<0.002	NA	NA	NA	NA	NA
Arsenic (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.002	0.004	NA	0.0209 ^{ab}	NA	NA	NA	NA	NA
Barium (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	0.030	0.023	NA	0.290	NA	NA	NA	NA	NA
Beryllium (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.001	<0.001	NA	NA	NA	NA	NA	NA	NA
Boron	mg/L	NA	NA	NA	NA	NA	NA	NA	1.46 ^a	0.28	NA	0.86 J ^a	NA	NA	NA	NA	NA
Cadmium (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.001	<0.001	NA	<0.001	NA	NA	NA	NA	NA
Chromium VI (hexavalent) (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.010	0.048	NA	<0.002	NA	NA	NA	NA	NA
Cobalt (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	0.105 ^{ab}	<0.010	NA	<0.002	NA	NA	NA	NA	NA
Copper (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	0.015	0.062 ^b	NA	<0.002	NA	NA	NA	NA	NA
Lead (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.002	<0.002	NA	<0.002	NA	NA	NA	NA	NA
Manganese (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	0.179 ^a	<0.010	NA	0.381 ^a	NA	NA	NA	NA	NA
Mercury (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.0001	<0.0001	NA	<0.0001	NA	NA	NA	NA	NA
Nickel (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	0.024	0.013	NA	0.018	NA	NA	NA	NA	NA
Selenium (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.002	<0.002	NA	0.001	NA	NA	NA	NA	NA
Silver (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.0002	<0.0002	NA	<0.0005	NA	NA	NA	NA	NA
Thallium (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA
Vanadium (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.002	0.016 ^a	NA	<0.002	NA	NA	NA	NA	NA
Zinc (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.010	<0.010	NA	<0.010	NA	NA	NA	NA	NA

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		UNK-11 6.5 - 11.5 01/02/13	UNK-13 11 - 16 01/03/13	UNK-15 69 - 79 11/29/11	UNK-15 69 - 79 01/03/13	VAP-A14-DH100 68.5 - 69.5 05/30/12	VAP-A17-DE144 63 - 64 05/23/12	VAP-A17-DF167 55 - 56 05/21/12	VAP-A17-DF167 60 - 61 05/21/12	VAP-A17-DF167 65 - 66 05/21/12	VAP-A17-EC144 6 - 7 05/23/12	VAP-A17-EC144 76 - 77 05/24/12	VAP-A19-HJ150 13.5 - 14.5 06/06/12	VAP-A19-HJ150 27 - 28 06/06/12
	Units													
Volatile Organics														
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	<1 [<1]	<1	<0.05	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	ug/L	<1 [<1]	<1	<0.02	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
1,2-Dichlorobenzene	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
1,4-Dichlorobenzene	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
2-Hexanone	ug/L	<10 [<10]	<10	<10	<10	<20 [<20]	<20	<20	<20	<20	<20	<20 [<20]	NA	NA
Acetone	ug/L	<10 [<10]	<10	<10	<10	<50 J [<50 J]	<50	<50	<50	<50	<50	<50 [<50]	NA	NA
Bromodichloromethane	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
Bromoform	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
Bromomethane (Methyl bromide)	ug/L	<1 [<1]	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
Carbon tetrachloride	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
Chlorobenzene	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
Chloroform (Trichloromethane)	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
Chloromethane (Methyl chloride)	ug/L	<1 [<1]	<1	<1	<1	<5.0 [<5]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 [<5]	NA	NA
cis-1,3-Dichloropropene	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
Dichlorodifluoromethane (CFC-12)	ug/L	<1 [<1]	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/L	<10 [<10]	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
Styrene	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
trans-1,3-Dichloropropene	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
Trichlorofluoromethane (CFC-11)	ug/L	<1 [<1]	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
1,4-Dioxane	ug/L	<5 [<5]	<5	<5	<5	<5	11	<5	<5	<5	<5	<5	NA	NA
1,1,1-Trichloroethane	ug/L	29 [30]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
1,1,2,2-Tetrachloroethane	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
1,1,2-Trichloroethane	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
1,1-Dichloroethane	ug/L	3 [4]	1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	2.9	<2.0 [<2]	NA	NA
1,1-Dichloroethene	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
1,2-Dichloroethane	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
cis-1,2-Dichloroethene	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	1.7 J	<2.0 [<2]	NA	NA
trans-1,2-Dichloroethene	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
Trichloroethene	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
Tetrachloroethene	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
Vinyl chloride	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
Chloroethane	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
Benzene	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	1.3 J	<2.0 [<2]	NA	NA
Ethylbenzene	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	0.58 J	<2.0 [<2]	NA	NA
Toluene	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	0.79 J	<2.0 [<2]	NA	NA
o-Xylene	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	0.93 J	<2.0 [<2]	NA	NA
m&p-Xylene	ug/L	<2 [<2]	<2	<2	<2	<4.0 [<4]	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0 [<4]	NA	NA
Xylene (total)	ug/L	<3 [<3]	<3	<3	<3	<6 [<6]	<6	<6	<6	<6	0.93 J	<6 [<6]	NA	NA
Methyl tert butyl ether (MTBE)	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	<10 [<10]	<10	<10	<10	<20 [<20]	<20	<20	<20	<20	<20	<20 [<20]	NA	NA
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	<10 [<10]	<10	<10	<10	<20 [<20]	<20	<20	<20	<20	<20	<20 [<20]	NA	NA
1,2,4-Trichlorobenzene	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
1,2,4-Trimethylbenzene	ug/L	NA	NA	NA	NA	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
1,3,5-Trimethylbenzene	ug/L	NA	NA	NA	NA	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
1,2-Dichloropropane	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
1,3-Dichlorobenzene	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
Cyclohexane	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
Methyl cyclohexane	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
Dibromochloromethane	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
Isopropyl benzene	ug/L	<1 [<1]	<1	<1	<1	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA
Naphthalene	ug/L	NA	NA	NA	NA	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		UNK-11 6.5 - 11.5 01/02/13	UNK-13 11 - 16 01/03/13	UNK-15 69 - 79 11/29/11	UNK-15 69 - 79 01/03/13	VAP-A14-DH100 68.5 - 69.5 05/30/12	VAP-A17-DE144 63 - 64 05/23/12	VAP-A17-DF167 55 - 56 05/21/12	VAP-A17-DF167 60 - 61 05/21/12	VAP-A17-DF167 65 - 66 05/21/12	VAP-A17-EC144 6 - 7 05/23/12	VAP-A17-EC144 76 - 77 05/24/12	VAP-A19-HJ150 13.5 - 14.5 06/06/12	VAP-A19-HJ150 27 - 28 06/06/12
	Units													
Semivolatile Organics														
1-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) et	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
2,4,6-Trichlorophenol	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
2,4-Dichlorophenol	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
2,4,5-Trichlorophenol	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
2,4-Dimethylphenol	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
2,4-Dinitrophenol	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
2,4-Dinitrotoluene	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
2,6-Dinitrotoluene	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
2-Chloronaphthalene	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
2-Chlorophenol	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
2-Methylnaphthalene	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
2-Methylphenol	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
2-Nitroaniline	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
2-Nitrophenol	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
3&4-Methylphenol	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
3,3'-Dichlorobenzidine	ug/L	NA	NA	<0.05	NA	NA	<0.05	<0.05	<0.06	<0.05	<0.05	<0.05 [<0.05]	<0.05	<0.05 [<0.05]
Naphthalene	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
3-Nitroaniline	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
4-Bromophenyl phenyl ether	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
4-Chloro-3-methylphenol	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
4-Chloroaniline	ug/L	<1 J[<1 J]	<1	<2	<1	NA	<2	<2	<2	<2	<20	<2 J[<2 J]	<2 J	<2 J[<2 J]
4-Chlorophenyl phenyl ether	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
4-Nitroaniline	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
4-Nitrophenol	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Anthracene	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Acenaphthene	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Acenaphthylene	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Acetophenone	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Atrazine	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Benzaldehyde	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Benzo(a)anthracene	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Benzo(a)pyrene	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Benzo(b)fluoranthene	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Benzo(g,h,i)perylene	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Benzo(k)fluoranthene	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Biphenyl (1,1'-Biphenyl)	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
bis(2-Chloroethoxy)methane	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
bis(2-Chloroethyl)ether	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	<1 [<1]	8 ^a	<2	<1	NA	<2	<2	<2	<2	<20	<2 [<2]	<2	<2 [<2]
Butyl benzylphthalate (BBP)	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Caprolactam	ug/L	<1 [<1]	4	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Carbazole	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Chrysene	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Dibenz(a,h)anthracene	ug/L	<2 [<2]	<2	<1	<2	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Dibenzofuran	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Diethyl phthalate	ug/L	<1 [<1]	<1	<2	<1	NA	<2	<2	<2	<2	<20	<2 [<2]	<2	<2 [<2]
Dimethyl phthalate	ug/L	<1 [<1]	<1	<2	<1	NA	2	5	5	4	<20	<2 [3]	<2	<2 [<3 B]
Di-n-butylphthalate (DBP)	ug/L	<1 [<1]	<1 B	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Di-n-octyl phthalate (DnOP)	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Fluoranthene	ug/L	<1 [<1]	1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Fluorene	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Hexachlorobenzene	ug/L	NA	NA	<0.05	NA	NA	<0.05	<0.05	<0.06	<0.05	<0.05	<0.05 [<0.05]	<0.05	<0.05 [<0.05]
Hexachlorobutadiene	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Hexachlorocyclopentadiene	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Hexachloroethane	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Indeno(1,2,3-cd)pyrene	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Isophorone	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Nitrobenzene	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
N-Nitrosodi-n-propylamine	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
N-Nitrosodiphenylamine	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Pentachlorophenol	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Phenanthrene	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Phenol	ug/L	<1 [<1]	<1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]
Pyrene	ug/L	<1 [<1]	1	<1	<1	NA	<1	<1	<1	<1	<8	<1 [<1]	<1	<1 [<1]

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		UNK-11 6.5 - 11.5 01/02/13	UNK-13 11 - 16 01/03/13	UNK-15 69 - 79 11/29/11	UNK-15 69 - 79 01/03/13	VAP-A14-DH100 68.5 - 69.5 05/30/12	VAP-A17-DE144 63 - 64 05/23/12	VAP-A17-DF167 55 - 56 05/21/12	VAP-A17-DF167 60 - 61 05/21/12	VAP-A17-DF167 65 - 66 05/21/12	VAP-A17-EC144 6 - 7 05/23/12	VAP-A17-EC144 76 - 77 05/24/12	VAP-A19-HJ150 13.5 - 14.5 06/06/12	VAP-A19-HJ150 27 - 28 06/06/12
	Units													
Semivolatile Organics-Filtered														
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		UNK-11 6.5 - 11.5 01/02/13	UNK-13 11 - 16 01/03/13	UNK-15 69 - 79 11/29/11	UNK-15 69 - 79 01/03/13	VAP-A14-DH100 68.5 - 69.5 05/30/12	VAP-A17-DE144 63 - 64 05/23/12	VAP-A17-DF167 55 - 56 05/21/12	VAP-A17-DF167 60 - 61 05/21/12	VAP-A17-DF167 65 - 66 05/21/12	VAP-A17-DF167 6 - 7 05/23/12	VAP-A17-EC144 76 - 77 05/24/12	VAP-A19-HJ150 13.5 - 14.5 06/06/12	VAP-A19-HJ150 27 - 28 06/06/12
	Units													
PCBs														
Aroclor-1016 (PCB-1016)	ug/L	<0.05 [<0.05]	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	<0.1 [<0.1]	<0.1	<0.05	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	<0.1 [<0.1]	<0.1	<0.05	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	<0.1 [<0.1]	<0.1	<0.05	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	<0.1 [<0.1]	<0.1	<0.05	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	<0.1 [<0.1]	<0.1	<0.05	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	<0.05 [<0.05]	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/L	ND [ND]	ND	<0.05	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs-Filtered														
Total PCBs (dissolved)	ug/L	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND [ND]	NA	NA
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [<0.05]	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [<0.05]	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [<0.05]	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [<0.05]	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [<0.05]	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [<0.05]	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [<0.05]	NA	NA
Inorganics														
Antimony	mg/L	<0.002 [<0.002]	<0.002	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	<0.002 [<0.002]	<0.002	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	0.040 [0.04]	0.059	0.053	0.037	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	NA	NA	<0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/L	0.05 [0.05]	0.12	0.15	0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	<0.001 [<0.001]	<0.001	<0.001	<0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/L	NA	<0.01	NA	<0.01	<0.02 [<0.02]	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	<0.010 [<0.01]	<0.010	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	<0.010 [<0.01]	<0.010	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	<0.002 [<0.002]	0.008	0.003	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	<0.002 [<0.002]	0.004	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	0.263 [0.248]^a	0.100^a	0.052^a	0.013	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	<0.0001 [<0.0001]	<0.0001	<0.0001	<0.0001	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	<0.010 [<0.01]	0.015	0.012	0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	<0.002 [<0.002]	<0.002	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	<0.0002 [<0.0002]	<0.0002	<0.0002	<0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	<0.002 [<0.002]	0.009^a	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	<0.010 [<0.01]	0.132	0.015	0.011	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered														
Antimony (dissolved)	mg/L	NA	NA	NA	NA	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002 [<0.002]	<0.002	<0.002 [<0.002]
Arsenic (dissolved)	mg/L	NA	NA	NA	NA	0.010 J [0.003 J]	0.003	0.002	0.004	0.003	0.119^{ab}	0.004 [0.005]	<0.002	0.003 [0.003]
Barium (dissolved)	mg/L	NA	NA	NA	NA	0.193 J [0.078 J]	0.125	0.397	0.135	0.107	4.22^{ab}	0.597 [0.603]	0.133	0.080 [0.084]
Beryllium (dissolved)	mg/L	NA	NA	NA	NA	<0.001 [<0.001]	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001 [<0.001]	<0.001	<0.001 [<0.001]
Boron	mg/L	NA	NA	NA	NA	0.04 [<0.04]	<0.04	<0.04	<0.04	0.05	0.40	0.04 [<0.04]	1.91^a	0.38 [0.37]
Cadmium (dissolved)	mg/L	NA	NA	NA	NA	<0.001 [<0.001]	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001 [<0.001]	<0.001	<0.001 [<0.001]
Chromium VI (hexavalent) (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	<0.010 [<0.01]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010 [<0.01]	<0.010	<0.010 [<0.01]
Cobalt (dissolved)	mg/L	NA	NA	NA	NA	<0.010 [<0.01]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010 [<0.01]	<0.010	<0.010 [<0.01]
Copper (dissolved)	mg/L	NA	NA	NA	NA	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	<0.002	0.004 [<0.002]	<0.002	<0.002 [0.002]
Lead (dissolved)	mg/L	NA	NA	NA	NA	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002 [<0.002]	<0.002	<0.002 [<0.002]
Manganese (dissolved)	mg/L	NA	NA	NA	NA	0.104 J [0.035 J]^a	0.411^a	0.284^a	0.126^a	0.141^a	0.118^a	0.192 [0.184]^a	0.316^a	0.328 [0.328]^a
Mercury (dissolved)	mg/L	NA	NA	NA	NA	<0.0001 [<0.0001]	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001 [<0.0001]	<0.0001	<0.0001 [<0.0001]
Nickel (dissolved)	mg/L	NA	NA	NA	NA	<0.010 [<0.01]	0.028	0.020	<0.010	0.014	0.016	<0.010 [<0.01]	0.012	0.020 [0.019]
Selenium (dissolved)	mg/L	NA	NA	NA	NA	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002 [<0.002]	<0.002	<0.002 [<0.002]
Silver (dissolved)	mg/L	NA	NA	NA	NA	<0.0002 [<0.0002]	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002 [<0.0002]	<0.0002	<0.0002 [<0.0002]
Thallium (dissolved)	mg/L	NA	NA	NA	NA	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002 [<0.002]	<0.002	<0.002 [<0.002]
Vanadium (dissolved)	mg/L	NA	NA	NA	NA	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	0.003	<0.002 [<0.002]	<0.002	<0.002 [<0.002]
Zinc (dissolved)	mg/L	NA	NA	NA	NA	<0.010 [<0.01]	0.023	0.015	<0.010	<0.010	<0.010	<0.010 [<0.01]	<0.010	<0.010 [<0.01]

TABLE 15
RFI Phase 2 Summary Report
RACER Plant 3
Summary of Groundwater Sample Analytical Results

Table Notes:

- Shading indicates result exceeding one or more MDEQ Part 201 Generic Cleanup Criteria and Screening Levels, Dated March 25, 2011.
- Bold fonts represent data where detections were noted above the MDL but below MDEQ Part 201 Generic Cleanup Criteria.
- Data shown in [] represent duplicate sample analytical results.
- mg/L - milligrams per liter
- µg/L - micrograms per liter
- * - Sample was analyzed in on-site lab with instruments calibrated to screening mode. This data was not validated
- ** - Sample collected by others and analytical reports provided to ARCADIS. This data was not validated
- ^a - Sample exceeds Residential Drinking Water Criteria
- ^b - Sample exceeds Groundwater Surface Water Interface Criteria
- ^c - Sample exceeds Groundwater Contact Criteria
- ^d - Sample exceeds Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria
- ^e - Sample exceeds Water Solubility Criteria
- ^f - Sample exceeds Flammability and Explosivity Screening Levels
- ^g - Sample exceeds Acute Inhalation Screening Levels
- ^h - Sample exceeds Non-Residential Groundwater Concentrations for Vapor Intrusion

MDEQ Criteria Footnotes: (as revised September 28, 2012)

- = Not listed in the MDEQ Criteria Tables.
- ID = Insufficient data to develop a criterion.
- Na = Not available.
- NLV = Not likely to volatilize.
- A = Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005.
- D = Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb).
- E = Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA).
- F = Criterion is based on adverse impacts to plant life and phytotoxicity.
- G = Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. A hardness value of 257 mg/L was used.
- L = Criteria for lead are derived using a biologically based model, as allowed for under Section 20120a(10) of the NREPA, and are not calculated using the algorithms and assumptions specified in pathway-specific rules.
- M = Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.
- S = Criterion defaults to the hazardous substance-specific water solubility limit.
- W = Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with the Michigan drinking water standard of 80 µg/L.
- X = The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source.
- AA = Comparison to these criteria may take into account an evaluation of whether the hazardous substances are adsorbed to particulates rather than dissolved in water and whether filtered groundwater samples were used to evaluate groundwater.

Lab Data Qualifiers:

- B = Compounds also found in associated method blank
- D = Compound quantified using a secondary dilution
- E = Analyte exceeds calibration range
- I = Matrix interference with internal standard
- J = The compound/constituent was positively identified; however, the associated numerical value is an estimated concentration only.
- K = Elevated reporting limits due to low total solids
- N = Normal Sample
- p = Benzo(b)fluoranthene and Benzo(k)fluoranthene integrated as one peak
- R = Rejected
- S = Surrogate recovery outside of control limits
- T = No correction for total solids
- UJ = The analyte was not detected above the quantitation limits, however the quantitation limits is estimated
- U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
- X = Elevated reporting limit due to matrix interference
- z = Sample preserved in the lab

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		Residential Drinking Water Protection Criteria ^(a)	Groundwater Surface Water Interface Protection Criteria ^(b)	Groundwater Contact Protection Criteria ^(c)	Non-Residential Soil Volatilization to Indoor Air Criteria ^(d)	Non-Residential Infinite Source Volatile Soil Inhalation Criteria ^(e) (1)	Non- Residential Direct Contact Criteria ^(f)	Non-Residential Particulate Soil Inhalation Criteria ^(g) (1)	Soil Saturation Levels ^(h)	Statewide Default Background Levels ⁽ⁱ⁾	MW-12-03 2 - 3 03/22/12	MW-12-03 22 - 23 03/22/12	MW-12-03 44 - 45 03/22/12	P6-MW-01 2 - 3 08/05/11	P6-MW-01 16 - 17 08/05/11	P6-MW-01 23 08/05/11	P6-SB-01 2 - 3 08/02/11	P6-SB-01 9 - 10 08/02/11
Units																		
Volatile Organics																		
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	10(M)	ID	1,200(C)	1,200(C)	387	1,200(C)	3.01E+05	1,200	--	<3	<3	<3	<3	<3	<3	<3	<3
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	20(M)	110(X)	500	3,600	2,494	430	7.74E+06	8.90E+05	--	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	ug/kg	14,000	280	2.10E+05(C)	2.10E+05(C)	1.98E+07	2.10E+05(C)	1.89E+10	2.10E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
1,4-Dichlorobenzene	ug/kg	1,700	360	1.40E+05	1.00E+05	1.12E+05	1.90E+06	2.45E+08	NA	--	<60	<60	<60	<60	<50	<60	<60	<60
2-Hexanone	ug/kg	20,000	ID	2.50E+06(C)	1.80E+06	5.59E+05	2.50E+06(C)	5.16E+08	2.50E+06	--	<560	<620	<590	<590	<550	<560	<630	<620
Acetone	ug/kg	15,000	34,000	1.10E+08(C)	1.10E+08(C)	6.88E+07	7.30E+07	7.31E+10	1.10E+08	--	<560	<620	<590	<590	<550	<560	<630	<620
Bromodichloromethane	ug/kg	1,600(W)	ID	2.80E+05	6,400	13,330	4.90E+05	4.73E+07	1.50E+06	--	<60	<60	<60	<60	<50	<60	<60	<60
Bromoform	ug/kg	1,600(W)	ID	8.70E+05(C)	7.70E+05	1.33E+06	8.70E+05(C)	1.55E+09	8.70E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
Bromomethane (Methyl bromide)	ug/kg	200	700	1.40E+06	1,600	5,590	1.00E+06	6.45E+07	2.20E+06	--	<60	<60	<60	<60	<50	<60	<60	<60
Carbon disulfide	ug/kg	16,000	ID	2.80E+05(C)	1.40E+05	6.88E+05	2.80E+05(C,DD)	9.03E+09	2.80E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
Carbon tetrachloride	ug/kg	100	900(X)	92,000	990	5,160	3.90E+05(C)	7.31E+07	3.90E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
Chlorobenzene	ug/kg	2,000	500	2.60E+05(C)	2.20E+05	3.96E+05	2.60E+05(C)	9.03E+08	2.60E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
Chloroform (Trichloromethane)	ug/kg	1,600(W)	7,000	1.50E+06(C)	38,000	64,500	1.50E+06(C)	6.88E+08	1.50E+06	--	<60	<60	<60	<60	<50	<60	<60	<60
Chloromethane (Methyl chloride)	ug/kg	5,200	ID	1.10E+06(C)	10,000	51,600	1.10E+06(C)	1.12E+09	1.10E+06	--	<60	<60	<60	<60	<50	<60	<60	<60
cis-1,3-Dichloropropene	ug/kg	170	180(X)	1.10E+05	5,400	25,800	2.40E+05	2.54E+08	6.20E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
Dichlorodifluoromethane (CFC-12)	ug/kg	95,000	ID	1.00E+06(C)	1.70E+06	2.71E+07	1.00E+06(C)	6.45E+11	1.00E+06	--	<60	<60	<60	<60	<50	<60	<60	<60
Methyl acetate	ug/kg	--	--	--	--	--	--	--	--	--	<560	<620	<590	<590	<550	<560	<630	<620
Methylene chloride	ug/kg	100	30,000(X)	2.30E+06(C)	2.40E+05	3.01E+05	2.30E+06(C)	3.57E+09	2.30E+06	--	<60	<60	<60	<60	<50	<60	<60	<60
Styrene	ug/kg	2,700	2,100(X)	2.70E+05	5.20E+05(C)	1.42E+06	5.20E+05(C)	2.97E+09	5.20E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
trans-1,3-Dichloropropene	ug/kg	170	180(X)	1.10E+05	5,400	25,800	2.40E+05	2.54E+08	6.20E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
Trichlorofluoromethane (CFC-11)	ug/kg	52,000	NA	5.60E+05(C)	5.60E+05(C)	4.73E+07	5.60E+05(C)	7.31E+11	5.60E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
Trifluorotrichloroethane (Freon 113)	ug/kg	5.50E+05(C)	1,700	5.50E+05(C)	5.50E+05(C)	9.03E+07	5.50E+05(C)	9.89E+11	5.50E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
1,4-Dioxane	ug/kg	1,700	56,000(X)	3.40E+07	NLV	NLV	2.40E+06	3.05E+08	9.70E+07	--	<300	<300	<300	<300	<300	<300	<300	<300
1,1,1-Trichloroethane	ug/kg	4,000	1,800	4.60E+05(C)	4.60E+05	1.94E+06	4.60E+05(C)	1.25E+10	4.60E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
1,1,2,2-Tetrachloroethane	ug/kg	170	1,600(X)	94,000	23,000	14,620	2.40E+05	2.92E+07	8.70E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
1,1,2-Trichloroethane	ug/kg	100	6,600(X)	4.20E+05	24,000	24,510	8.40E+05	1.08E+08	9.20E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
1,1-Dichloroethane	ug/kg	18,000	15,000	8.90E+05(C)	4.30E+05	1.08E+06	8.90E+05(C)	6.45E+09	8.90E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
1,1-Dichloroethene	ug/kg	140	2,600	2.20E+05	330	1,591	5.70E+05(C)	3.35E+07	5.70E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
1,2-Dichloroethane	ug/kg	100	7,200(X)	3.80E+05	11,000	9,030	4.20E+05	6.45E+07	1.20E+06	--	<60	<60	<60	<60	<50	<60	<60	<60
cis-1,2-Dichloroethene	ug/kg	1,400	12,000	6.40E+05(C)	41,000	90,300	6.40E+05(C)	4.30E+08	6.40E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
trans-1,2-Dichloroethene	ug/kg	2,000	30,000(X)	1.40E+06(C)	43,000	1.42E+05	1.40E+06(C)	9.03E+08	1.40E+06	--	<60	<60	<60	<60	<50	<60	<60	<60
Trichloroethene	ug/kg	100	4,000(X)	4.40E+05	1,900	6,020	5.00E+05(C,DD)	2.54E+07	5.00E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
Tetrachloroethene	ug/kg	100	1,200(X)	88,000(C)	21,000	90,300	88,000(C)	5.16E+08	88,000	--	<60	<60	<60	<60	<50	<60	<60	<60
Vinyl chloride	ug/kg	40	260(X)	20,000	2,800	12,470	34,000	3.83E+08	4.90E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
Chloroethane	ug/kg	8,600	22,000(X)	9.50E+05(C)	9.50E+05(C)	1.55E+07	9.50E+05(C)	1.25E+11	9.50E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
Benzene	ug/kg	100	4,000(X)	2.20E+05	8,400	19,350	4.00E+05(C)	2.02E+08	4.00E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
Ethylbenzene	ug/kg	1,500	360	1.40E+05(C)	1.40E+05(C)	1.03E+06	1.40E+05(C)	5.59E+09	1.40E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
Toluene	ug/kg	16,000	5,400	2.50E+05(C)	2.50E+05(C)	1.42E+06	2.50E+05(C)	5.16E+09	2.50E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
o-Xylene	ug/kg	5,600	820	1.50E+05(C)	1.50E+05(C)	2.32E+07	1.50E+05(C)	5.59E+10	1.50E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
m&p-Xylene	ug/kg	5,600	820	1.50E+05(C)	1.50E+05(C)	2.32E+07	1.50E+05(C)	5.59E+10	1.50E+05	--	<100	<100	<100	<100	<100	<100	<100	<100
Xylene (total)	ug/kg	5,600	820	1.50E+05(C)	1.50E+05(C)	2.32E+07	1.50E+05(C)	5.59E+10	1.50E+05	--	<160	<160	<160	<160	<150	<160	<160	<160
Methyl tert butyl ether (MTBE)	ug/kg	800	1.40E+05(X)	5.90E+06(C)	5.90E+06(C)	1.29E+07	5.90E+06(C)	3.78E+10	5.90E+06	--	<60	<60	<60	<60	<50	<60	<60	<60
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	2.60E+05	44,000	2.70E+07(C)	2.70E+07(C)	1.51E+07	2.70E+07(C,DD)	1.25E+10	2.70E+07	--	<560	<620	<590	<590	<550	<560	<630	<620
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	36,000	ID	2.70E+06(C)	2.70E+06(C)	2.28E+07	2.70E+06(C)	2.58E+10	2.70E+06	--	<560	<620	<590	<590	<550	<560	<630	<620
1,2,4-Trichlorobenzene	ug/kg	4,200	5,900(X)	1.10E+06(C)	1.10E+06(C)	1.46E+07	1.10E+06(C,DD)	4.73E+09	1.10E+06	--	<60	<60	<60	<60	<50	<60	<60	<60
1,2,4-Trimethylbenzene	ug/kg	2,100	570	1.10E+05(C)	1.10E+05(C)	1.08E+07	1.10E+05(C)	1.55E+10	1.10E+05	--	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	1,800	1,100	94,000(C)	94,000(C)	8.17E+06	94,000(C)	1.55E+10	94,000	--	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	100	4,600(X)	3.20E+05	7,400	12,900	5.50E+05(C)	5.16E+07	5.50E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
1,3-Dichlorobenzene	ug/kg	170	680	51,000	48,000	40,420	1.70E+05(C)	3.78E+07	1.70E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
Cyclohexane	ug/kg	--	--	--	--	--	--	--	--	--	<60	<60	<60	<60	<50	<60	<60	<60
Methyl cyclohexane	ug/kg	--	--	--	--	--	--	--	--	--	<60	<60	<60	<60	<50	<60	<60	<60
Dibromochloromethane	ug/kg	1,600(W)	ID	3.60E+05	21,000	34,400	5.00E+05	6.88E+07	6.10E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
Isopropyl benzene	ug/kg	91,000	3,200	3.90E+05(C)	3.90E+05(C)	8.60E+05	3.90E+05(C)	1.12E+09	3.90E+05	--	<60	<60	<60	<60	<50	<60	<60	<60
Naphthalene	ug/kg	35,000	730	2.10E+06	4.70E+05	1.51E+05	5.20E+07	3.78E+07	NA	--	NA	NA	NA	NA	NA	NA	NA	NA

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		Residential Drinking Water Protection Criteria ^(a)	Groundwater Surface Water Interface Protection Criteria ^(b)	Groundwater Contact Protection Criteria ^(c)	Non-Residential Soil Volatilization to Indoor Air Criteria ^(d)	Non-Residential Infinite Source Volatile Soil Inhalation Criteria ^(e)	Non- Residential Direct Contact Criteria ^(f)	Non-Residential Particulate Soil Inhalation Criteria ^(g) (1)	Soil Saturation Levels ^(h)	Statewide Default Background Levels ⁽ⁱ⁾	MW-12-03 2 - 3 03/22/12	MW-12-03 22 - 23 03/22/12	MW-12-03 44 - 45 03/22/12	P6-MW-01 2 - 3 08/05/11	P6-MW-01 16 - 17 08/05/11	P6-MW-01 23 08/05/11	P6-SB-01 2 - 3 08/02/11	P6-SB-01 9 - 10 08/02/11
	Units																	
Semivolatile Organics																		
2-Methyl-4,6-dinitrophenol	ug/kg	830(M)	NA	1.90E+05	NLV	NLV	2.60E+05	2.54E+07	NA	--	<40	<40	<40	<40	<40	<40	<40 J	<40 J
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40	<40	<40	<40	<40
2,4,6-Trichlorophenol	ug/kg	2,400	330(M)	2.00E+05	NLV	NLV	3.30E+06	5.59E+08	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
2,4-Dichlorophenol	ug/kg	1,500	330(M)	9.60E+05	NLV	NLV	1.80E+06(C,DD)	9.89E+08	1.80E+06	--	<40	<40	<40	<40	<40	<40	<40	<40
2,4,5-Trichlorophenol	ug/kg	39,000	NA	9.10E+06	NLV	NLV	7.30E+07	4.30E+09	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
2,4-Dimethylphenol	ug/kg	7,400	7,600	1.00E+07	NLV	NLV	3.60E+07	9.03E+08	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
2,4-Dinitrophenol	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40 J	<40 J	<40 J	<40 J	<40 J
2,4-Dinitrotoluene	ug/kg	430	NA	1.70E+05	NLV	NLV	2.20E+05	8.60E+06	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
2,6-Dinitrotoluene	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40	<40	<40	<40	<40
2-Chloronaphthalene	ug/kg	6.20E+05	NA	2.30E+06	ID	ID	1.80E+08	ID	NA	--	<40 J	<40 J	<40 J	<40	<40	<40	<40	<40
2-Chlorophenol	ug/kg	900	360	1.90E+06	8.00E+05	4.73E+05	4.50E+06	2.28E+08	1.90E+07	--	<40	<40	<40	<40	<40	<40	<40	<40
2-Methylnaphthalene	ug/kg	57,000	4,200	5.50E+06	4.90E+06	7.74E+05	2.60E+07	1.25E+08	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
2-Methylphenol	ug/kg	7,400	1,000(M)	1.60E+07	NLV	NLV	3.60E+07	1.25E+09	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
2-Nitroaniline	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40	<40	<40	<40	<40
2-Nitrophenol	ug/kg	400	ID	1.60E+06	NLV	NLV	2.00E+06	ID	NA	--	<40 J	<40 J	<40 J	<40	<40	<40	<40	<40
3&4-Methylphenol	ug/kg	7,400	1,000(M)	1.60E+07	NLV	NLV	3.60E+07	1.25E+09	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
3,3'-Dichlorobenzidine	ug/kg	2,000(M)	2,000(M)	4,600	NLV	NLV	30,000	3.53E+06	NA	--	<40 J	<40 J	<40 J	<40	<40	<40	<40	<40
Naphthalene	ug/kg	35,000	730	2.10E+06	4.70E+05	1.51E+05	5.20E+07	3.78E+07	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
3-Nitroaniline	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40	<40	<40	<40	<40
4-Bromophenyl phenyl ether	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40	<40	<40	<40	<40
4-Chloro-3-methylphenol	ug/kg	5,800	280	3.00E+06	NLV	NLV	1.50E+07	ID	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
4-Chloroaniline	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40	<40	<40	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	--	--	--	--	--	--	--	--	--	<40 J	<40 J	<40 J	<40	<40	<40	<40	<40
4-Nitroaniline	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40	<40	<40	<40	<40
4-Nitrophenol	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40	<40	<40	<40	<40
Anthracene	ug/kg	41,000	ID	41,000	1.00E+09(D)	6.88E+08	7.30E+08	1.25E+10	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
Acenaphthene	ug/kg	3.00E+05	8,700	9.70E+05	3.50E+08	4.17E+07	1.30E+08	2.67E+09	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
Acenaphthylene	ug/kg	5,900	ID	4.40E+05	3.00E+06	1.16E+06	5.20E+06	4.30E+08	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
Acetophenone	ug/kg	30,000	ID	1.10E+06(C)	1.10E+06(C)	2.24E+07	1.10E+06(C)	6.02E+09	1.10E+06	--	<40	<40	<40	<40	<40	<40	<40	<40
Atrazine	ug/kg	60	150	1.10E+05	NLV	NLV	3.30E+05(DD)	ID	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
Benzaldehyde	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40	<40	<40	<40	<40
Benzo(a)anthracene	ug/kg	NLL	NLL	NLL	NLV	NLV	80,000	ID	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
Benzo(a)pyrene	ug/kg	NLL	NLL	NLL	NLV	NLV	8,000	8.17E+05	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
Benzo(b)fluoranthene	ug/kg	NLL	NLL	NLL	ID	ID	80,000	ID	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
Benzo(g,h,i)perylene	ug/kg	NLL	NLL	NLL	NLV	NLV	7.00E+06	1.51E+08	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
Benzo(k)fluoranthene	ug/kg	NLL	NLL	NLL	NLV	NLV	8.00E+05	ID	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
Biphenyl (1,1-Biphenyl)	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40	<40	<40	<40	<40
bis(2-Chloroethoxy)methane	ug/kg	--	--	--	--	--	--	--	--	--	<40	<40	<40	<40	<40	<40	<40	<40
bis(2-Chloroethyl)ether	ug/kg	100	100(M)	1.10E+05	44,000	5,590	58,000	5.16E+06	2.20E+06	--	<40	<40	<40	<40	<40	<40	<40	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NLL	NLL	NLL	NLV	NLV	1.00E+07(C)	3.83E+08	1.00E+07	--	<40	<40	<40	<40	40	<40	<40	<40
Butyl benzylphthalate (BBP)	ug/kg	3.10E+05(C)	1.20E+05(X)	3.10E+05(C)	NLV	NLV	3.10E+05(C)	9.03E+09	3.10E+05	--	<40	<40	<40	50	<40	<40	<40	<40
Caprolactam	ug/kg	1.20E+05	NA	1.00E+09(D)	NLV	NLV	3.10E+08(DD)	1.25E+08	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
Carbazole	ug/kg	9,400	1,100	8.20E+05	NLV	NLV	2.40E+06	3.35E+07	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
Chrysene	ug/kg	NLL	NLL	NLL	ID	ID	8.00E+06	ID	NA	--	<70	<70	<70	<70	<70	<70	<80	<40
Dibenz(a,h)anthracene	ug/kg	NLL	NLL	NLL	NLV	NLV	8,000	ID	NA	--	<70	<70	<70	<70	<70	<70	<80	<40
Dibenzofuran	ug/kg	ID	1,700	ID	3.60E+06	68,800	ID	1.25E+06	NA	--	<40 J	<40 J	<40 J	<40	<40	<40	<40	<40
Diethyl phthalate	ug/kg	1.10E+05	2,200	7.40E+05(C)	NLV	NLV	7.40E+05(C)	6.45E+08	7.40E+05	--	<70	<70	<70	<70	<70	<70	<80	<40
Dimethyl phthalate	ug/kg	7.90E+05(C)	NA	7.90E+05(C)	NLV	NLV	7.90E+05(C)	6.45E+08	7.90E+05	--	<70	<70	<70	<70	<70	<70	<80	<40
Di-n-butylphthalate (DBP)	ug/kg	7.60E+05(C)	11,000	7.60E+05(C)	NLV	NLV	7.60E+05(C)	6.45E+08	7.60E+05	--	<70	<70	<70	<70	<70	<70	<80	<40
Di-n-octyl phthalate (DnOP)	ug/kg	1.00E+08	ID	1.40E+08(C)	NLV	NLV	2.00E+07	6.02E+09	1.40E+08	--	<40	<40	<40	<40	<40	<40	<40	<40
Fluoranthene	ug/kg	7.30E+05	5,500	7.30E+05	1.00E+09(D)	3.83E+08	1.30E+08	1.76E+09	NA	--	<40	<40	<40	40	<40	<40	<40	<40
Fluorene	ug/kg	3.90E+05	5,300	8.90E+05	1.00E+09(D)	6.45E+07	8.70E+07	1.76E+09	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
Hexachlorobenzene	ug/kg	1,800	350	8,200	2.20E+05	24,080	37,000	3.66E+06	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
Hexachlorobutadiene	ug/kg	26,000	91	3.50E+05(C)	3.50E+05(C)	1.98E+05	3.50E+05(C)	7.74E+07	3.50E+05	--	<40 J	<40 J	<40 J	<40	<40	<40	<40	<40
Hexachlorocyclopentadiene	ug/kg	3.20E+05	ID	7.20E+05(C)	56,000	25,800	7.20E+05(C)	2.54E+06	7.20E+05	--	<40	<40	<40	<40	<40	<40	<40	<40
Hexachloroethane	ug/kg	430	1,800(X)	1.10E+05	79,000	2.84E+05	7.30E+05	4.30E+07	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
Indeno(1,2,3-cd)pyrene	ug/kg	NLL	NLL	NLL	NLV	NLV	80,000	ID	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
Isophorone	ug/kg	15,000	26,000(X)	2.40E+06(C)	NLV	NLV	2.40E+06(C)	3.53E+09	2.40E+06	--	<40	<40	<40	<40	<40	<40	<40	<40
Nitrobenzene	ug/kg	330(M)	3,600(X)	2.20E+05	1.70E+05	27,520	3.40E+05	9.03E+06	4.90E+05	--	<40 J	<40 J	<40 J	<40	<40	<40	<40	<40
N-Nitrosodi-n-propylamine	ug/kg	330(M)	NA	7,200	NLV	NLV	5,400	8.60E+05	1.50E+06	--	<40	<40	<40	<40	<40	<40	<40	<40
N-Nitrosodiphenylamine	ug/kg	5,400	NA	7.00E+05	NLV	NLV	7.80E+06	1.20E+09	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
Pentachlorophenol	ug/kg	22	17,000(G,X)	4,300	NLV	NLV	3.20E+05	5.59E+07	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
Phenanthrene	ug/kg	56,000	2,100	1.10E+06	5.10E+06	81,700	5.20E+06	1.25E+06	NA	--	<40	<40	<40	<40	<40	<40	<40	<40
Phenol	ug/kg	88,000	9,000	1.20E+07(C)	NLV	NLV	1.20E+07(C,DD)	7.74E+09	1.20E+07	--	<40	<40	<40	<40	<40	<40	<40	<40
Pyrene	ug/kg	4.80E+05	ID	4.80E+05	1.00E+09(D)	3.35E+08	8.40E+07	1.25E+09	NA	--	<40	<40	<40	40	<40	<40	<40	<40

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		Residential Drinking Water Protection Criteria ^(a)	Groundwater Surface Water Interface Protection Criteria ^(b)	Groundwater Contact Protection Criteria ^(c)	Non-Residential Soil Volatilization to Indoor Air Criteria ^(d)	Non-Residential Infinite Source Volatile Soil Inhalation Criteria ^(e) (1)	Non- Residential Direct Contact Criteria ^(f)	Non-Residential Particulate Soil Inhalation Criteria ^(g) (1)	Soil Saturation Levels ^(h)	Statewide Default Background Levels ⁽ⁱ⁾	MW-12-03 2 - 3 03/22/12	MW-12-03 22 - 23 03/22/12	MW-12-03 44 - 45 03/22/12	P6-MW-01 2 - 3 08/05/11	P6-MW-01 16 - 17 08/05/11	P6-MW-01 23 08/05/11	P6-SB-01 2 - 3 08/02/11	P6-SB-01 9 - 10 08/02/11
	Units																	
PCBs																		
Aroclor-1016 (PCB-1016)	ug/kg	NLL	NLL	NLL	1.60E+07	3.48E+05	16,000(T)	2.80E+06	NA	--	NA	NA	NA	NA	NA	NA	<3	<3
Aroclor-1221 (PCB-1221)	ug/kg	NLL	NLL	NLL	1.60E+07	3.48E+05	16,000(T)	2.80E+06	NA	--	NA	NA	NA	NA	NA	NA	<3	<3
Aroclor-1232 (PCB-1232)	ug/kg	NLL	NLL	NLL	1.60E+07	3.48E+05	16,000(T)	2.80E+06	NA	--	NA	NA	NA	NA	NA	NA	<3	<3
Aroclor-1242 (PCB-1242)	ug/kg	NLL	NLL	NLL	1.60E+07	3.48E+05	16,000(T)	2.80E+06	NA	--	NA	NA	NA	NA	NA	NA	<3	<3
Aroclor-1248 (PCB-1248)	ug/kg	NLL	NLL	NLL	1.60E+07	3.48E+05	16,000(T)	2.80E+06	NA	--	NA	NA	NA	NA	NA	NA	<3	<3
Aroclor-1254 (PCB-1254)	ug/kg	NLL	NLL	NLL	1.60E+07	3.48E+05	16,000(T)	2.80E+06	NA	--	NA	NA	NA	NA	NA	NA	<3	<3
Aroclor-1260 (PCB-1260)	ug/kg	NLL	NLL	NLL	1.60E+07	3.48E+05	16,000(T)	2.80E+06	NA	--	NA	NA	NA	NA	NA	NA	<3	<3
Total PCBs	ug/kg	NLL	NLL	NLL	1.60E+07	3.48E+05	16,000(T)	2.80E+06	NA	--	NA	NA	NA	NA	NA	NA	<3	<3
Inorganics																		
Antimony	mg/kg	4.3	94(X)	49,000	NLV	NLV	670	2,537	NA	--	<0.23	<0.24	<0.23	<0.11	<0.10	<0.11	<0.11	<0.11
Arsenic	mg/kg	4.6	4.6	2,000	NLV	NLV	37	391.3	NA	5.8	0.31	4.17	1.99	1.46	1.19	2.34	1.07	1.32
Barium	mg/kg	1,300	783(G)	1.00E+06(D)	NLV	NLV	1.30E+05	64,500	NA	75	6.06	15.0	10.4	20.5	6.73	14.3	50.4	36.9
Beryllium	mg/kg	51	329(G)	1.00E+06(D)	NLV	NLV	1,600	253.7	NA	--	<0.11	0.16	0.14	0.12	<0.10	<0.11	0.29	0.21
Boron	mg/kg	10	140(X)	1.00E+06(D)	NLV	NLV	3.50E+05(DD)	ID	NA	--	<4.56	<4.76	<4.56	<4.36	<3.98	<4.38	<4.50	<4.36
Cadmium	mg/kg	6	5.39(G,X)	2.30E+05	NLV	NLV	2,100	946	NA	1.2	<0.11	0.16	0.15	<0.11	<0.10	<0.11	0.15	<0.11
Chromium VI (hexavalent)	mg/kg	30	3.3	1.40E+05	NLV	NLV	9,200	103.2	NA	--	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	1.00E+06(D)	4.62E+06(G,X)	1.00E+06(D)	NLV	NLV	1.00E+06(D)	64,500	NA	18	1.44	2.21	1.55	2.46	1.95	2.29	3.38	6.11
Cobalt	mg/kg	0.8	2	48,000	NLV	NLV	9,000	2,537	NA	6.8	<1.14	2.99	1.66	1.40	1.10	2.34	3.22	3.41
Copper	mg/kg	5,800	116(G)	1.00E+06(D)	NLV	NLV	73,000	25,370	NA	32	3.14	7.96	4.82	6.69	2.65	7.16	4.54	4.39
Lead	mg/kg	700	7,680(G,X)	ID	NLV	NLV	900(DD)	18,920	NA	21	1.63	4.10	2.45	16.7	1.75	3.65	4.69	4.80
Manganese	mg/kg	1	90.1(G,X)	1.80E+05	NLV	NLV	90,000	990	NA	440	56.2	310	229	127	165	213	323	236
Mercury	mg/kg	1.7	0.05(M)	47	89	26.66	580	3,784	NA	0.13	<0.0055	0.0066	<0.0055	0.0201	<0.0054	0.0088	0.0247	0.0085
Nickel	mg/kg	100	120(G)	1.00E+06(D)	NLV	NLV	1.50E+05	6,880	NA	20	<1.14	6.66	2.92	4.81	4.99	8.60	5.08	6.73
Selenium	mg/kg	4	0.4	78,000	NLV	NLV	9,600	25,370	NA	0.41	<0.23	<0.24	<0.23	0.29	0.15	0.27	0.19	<0.11
Silver	mg/kg	4.5	0.1(M)	2.00E+05	NLV	NLV	9,000	1,247	NA	1	<0.02	0.03	0.03	<0.11	<0.10	<0.11	<0.11	<0.11
Thallium	mg/kg	2.3	4.2(X)	15,000	NLV	NLV	130	2,537	NA	--	<0.23	<0.24	<0.23	<0.11	<0.10	<0.11	<0.11	<0.11
Vanadium	mg/kg	72	430	1.00E+06(D)	NLV	NLV	5,500(DD)	ID	NA	--	3.39	4.48	3.20	4.18	1.88	3.76	6.06	5.59
Zinc	mg/kg	2,400	261(G)	1.00E+06(D)	NLV	NLV	6.30E+05	ID	NA	47	4.00	19.4	25.9	11.5	5.51	15.7	7.23	8.49
Miscellaneous																		
Total solids	%	--	--	--	--	--	--	--	--	--	95	90	91	93	92	91	86	87

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		P6-SB-02 2 - 3 08/10/11	P6-SB-02 29 - 30 08/10/11	P6-SB-03 5 07/25/11	P6-SB-03 24 - 26 07/25/11	P6-SB-04 1 - 2 08/05/11	P6-SB-05 1 - 2 08/04/11	P6-SB-05 27 - 28 08/04/11	P6-SB-06 6 - 7 08/03/11	P6-SB-06 28 - 29 08/03/11	P6-SB-07 3 08/09/11	P6-SB-07 15 - 16 08/09/11	P6-SB-07 24 - 25 08/09/11	P6-SB-08 2 - 3 08/09/11	P6-SB-08 14 - 15 08/09/11	P6-SB-08 24 - 25 08/09/11	P6-SB-09 10 07/27/11	P6-SB-09 20 07/27/11	P6-SB-10 1.5 07/27/11
	Units																		
Volatile Organics																			
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<3 J [<3 J]	<3	NA	NA	<3 [<3]	<3 [<3]	<3 J	<4	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<1 [<1]	<1	NA	NA	<1 [<1]	<1 [<1]	<1	<2	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	ug/kg	<600 [<590]	<620	NA	NA	<600 [<600]	<620 [<640]	<640	<810	<530	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	ug/kg	<600 [<590]	<620	NA	NA	<600 [<600]	<620 [<640]	<640	<810	<530	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane (Methyl bromide)	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform (Trichloromethane)	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane (Methyl chloride)	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane (CFC-12)	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	<600 [<590]	<620	NA	NA	<600 [<600]	<620 [<640]	<640	<810	<530	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane (CFC-11)	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	ug/kg	<300 [<300]	<300	NA	NA	<300 [<300]	<300 [<300]	<300	<400	<300	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	ug/kg	<100 [<100]	<100	NA	NA	<100 [<100]	<100 [<100]	<100	<200	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene (total)	ug/kg	<160 [<160]	<160	NA	NA	<160 [<160]	<160 [<160]	<160	<280	<150	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert butyl ether (MTBE)	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<600 [<590]	<620	NA	NA	<600 [<600]	<620 [<640]	<640	<810	<530	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<600 [<590]	<620	NA	NA	<600 [<600]	<620 [<640]	<640	<810	<530	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl benzene	ug/kg	<60 [<60]	<60	NA	NA	<60 [<60]	<60 [<60]	<60	<80	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		P6-SB-02 2 - 3 08/10/11	P6-SB-02 29 - 30 08/10/11	P6-SB-03 5 07/25/11	P6-SB-03 24 - 26 07/25/11	P6-SB-04 1 - 2 08/05/11	P6-SB-05 1 - 2 08/04/11	P6-SB-05 27 - 28 08/04/11	P6-SB-06 6 - 7 08/03/11	P6-SB-06 28 - 29 08/03/11	P6-SB-07 3 08/09/11	P6-SB-07 15 - 16 08/09/11	P6-SB-07 24 - 25 08/09/11	P6-SB-08 2 - 3 08/09/11	P6-SB-08 14 - 15 08/09/11	P6-SB-08 24 - 25 08/09/11	P6-SB-09 10 07/27/11	P6-SB-09 20 07/27/11	P6-SB-10 1.5 07/27/11
	Units																		
Semivolatile Organics																			
2-Methyl-4,6-dinitrophenol	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/kg	<40 [<40]	<40	NA	NA	<40 J [<40 J]	<40 J [<40 J]	<40 J	<40 J	<30 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/kg	<40 [<40]	<40	NA	NA	50 [<40]	40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/kg	<40 [<40]	<40	NA	NA	60 [<40]	50 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/kg	<40 [<40]	<40	NA	NA	60 [<40]	40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/kg	<40 [<40]	<40	NA	NA	50 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<40 [<40]	<40	NA	NA	40 [40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/kg	<70 [<70]	<70	NA	NA	<70 [<70]	<80 [<80]	<80	<90	<70	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/kg	<70 [<70]	<70	NA	NA	<70 [<70]	<80 [<80]	<80	<90	<70	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/kg	<70 [<70]	<70	NA	NA	<70 [<70]	<80 [<80]	<80	<90	<70	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/kg	<70 [<70]	<70	NA	NA	<70 [<70]	<80 [<80]	<80	<90	<70	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/kg	<70 [<70]	<70	NA	NA	<70 [<70]	<80 [<80]	<80	<90	<70	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/kg	<40 [<40]	<40	NA	NA	100 [40]	100 [70]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/kg	<40 [<40]	<40	NA	NA	<40 [<40]	<40 [<40]	<40	<40	<30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/kg	<40 [<40]	<40	NA	NA	50 [<40]	40 [<40]	<40	<40	<30	NA								

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	P6-SB-02	P6-SB-02	P6-SB-03	P6-SB-03	P6-SB-04	P6-SB-05	P6-SB-05	P6-SB-06	P6-SB-06	P6-SB-07	P6-SB-07	P6-SB-07	P6-SB-07	P6-SB-08	P6-SB-08	P6-SB-08	P6-SB-09	P6-SB-09	P6-SB-10
		2 - 3	29 - 30	5	24 - 26	1 - 2	1 - 2	27 - 28	6 - 7	28 - 29	3	15 - 16	24 - 25	2 - 3	14 - 15	24 - 25	10	20	1.5	
		08/10/11	08/10/11	07/25/11	07/25/11	08/05/11	08/04/11	08/04/11	08/03/11	08/03/11	08/09/11	08/09/11	08/09/11	08/09/11	08/09/11	08/09/11	07/27/11	07/27/11	07/27/11	
PCBs																				
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																				
Antimony	mg/kg	<0.12 [<u><0.12</u>]	<0.12	<0.24	<0.22	<0.11 [<u><0.11</u>]	<0.11 [<u><0.11</u>]	<0.11	<0.13	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11 [<u><0.11</u>]	<0.11	<0.22	<0.23	<0.22	
Arsenic	mg/kg	2.43 [1.83]	1.85	0.86	1.79	1.28 [1.18]	0.87 [0.69]	2.18	1.33	4.33	1.31	1.65	1.70	1.24	1.77 [1.51]	1.43	0.87	3.08	0.32	
Barium	mg/kg	26.7 [26.5]	34.2	28.7	27.9	27.6 [22.2]	7.19 [8.82]	48.7	68.6	3.01	29.7	13.6	31.2	27.2	11.8 [11.1]	20.8	11.4	19.0	18.3	
Beryllium	mg/kg	0.14 [0.18]	0.13	<0.18	<0.14	0.17 [0.18]	<0.11 [<u><0.11</u>]	0.24	0.42	<0.11	0.17	<0.11	0.15	0.15	<0.11 [<u><0.11</u>]	0.14	<0.10	<0.10	0.20	
Boron	mg/kg	<4.60 [<u><4.84</u>]	<5.0	<0.48	<1.41	<4.32 [<u><4.58</u>]	<4.58 [<u><4.42</u>]	<4.56	<5.34	<4.24	<4.30	<4.52	<4.64	<4.26	<4.44 [<u><4.3</u>]	<4.48	<0.22	<0.23	<0.75	
Cadmium	mg/kg	<0.12 [<u><0.12</u>]	<0.12	<0.05	<0.07	<0.11 [0.12]	<0.11 [<u><0.11</u>]	0.21	0.20	<0.11	<0.11	<0.11	0.12	<0.11	<0.11 [<u><0.11</u>]	<0.11	<0.14	<0.11	<0.09	
Chromium VI (hexavalent)	mg/kg	NA	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	
Chromium	mg/kg	4.96 [4.04]	3.81	1.86	2.72	2.70 [2.69]	1.63 [2]	7.23	3.28	1.16	3.62	2.90	4.05	3.41	2.51 [2.41]	4.03	1.97	1.76	4.46	
Cobalt	mg/kg	3.75 [3.98]	3.59	1.84	2.68	2.37 [2.25]	1.57 [1.56]	6.13	2.05	1.10	5.25	2.35	3.82	4.31	2.14 [2.2]	3.76	1.91	2.01	3.05	
Copper	mg/kg	7.78 [6.67]	10.1	4.42	11.2	7.44 [7.65]	1.86 [2.55]	17.0	15.3	5.00	3.85	6.74	10.9	4.11	6.51 [6.18]	10.9	7.53	6.23	7.72	
Lead	mg/kg	3.80 [4.09]	4.80	3.86	3.76	8.41 [10.8]	2.19 [3.14]	7.40	10.5	1.87	4.04	3.47	4.89	3.65	3.43 [3.11]	4.61	2.84	3.44	3.53	
Manganese	mg/kg	223 [243]	238	112	208	221 [206]	187 [119]	343	55.9	93.3	321	211	251	300	206 [205]	249	121	214	295	
Mercury	mg/kg	0.0093 [0.0106]	0.0096	<0.0161	<0.0146	0.0212 [0.0243]	0.0094 [0.0108]	0.0161	0.0426	<0.0050	0.0132	0.0084	0.0099	0.0139	0.0076 [0.007]	0.0096	<0.0080	<0.0094	<0.0095	
Nickel	mg/kg	12.6 [10.9]	10.9	3.79	5.79	5.40 [4.76]	5.42 [4.1]	18.5	4.05	5.31	11.1	8.44	12.0	10.0	8.30 [7.52]	11.4	5.18	4.61	7.35	
Selenium	mg/kg	0.15 [0.21]	0.21	<0.24	<0.22	0.23 [0.15]	<0.11 [<u><0.14</u>]	0.22	0.16	<0.11	0.23	0.20	0.14	0.22	0.23 [0.24]	0.19	<0.22	<0.23	<0.22	
Silver	mg/kg	<0.12 [<u><0.12</u>]	<0.12	<0.12	<0.11	<0.11 [<u><0.11</u>]	<0.11 [<u><0.11</u>]	<0.11	<0.13	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11 [<u><0.11</u>]	<0.11	<0.11	<0.11	<0.11	
Thallium	mg/kg	<0.12 [<u><0.12</u>]	<0.12	<0.02	<0.06	<0.11 [<u><0.11</u>]	<0.11 [<u><0.11</u>]	0.17	<0.13	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11 [<u><0.11</u>]	<0.11	<0.03	<0.10	<0.04	
Vanadium	mg/kg	6.13 [6.03]	5.19	4.22	4.59	5.30 [5.92]	2.19 [3.15]	7.86	11.0	1.15	6.14	3.68	4.98	5.47	3.52 [3.42]	4.92	4.10	3.30	6.50	
Zinc	mg/kg	13.5 [11.7]	16.1	7.39	14.4	11.2 [12.2]	4.83 [6.55]	26.5	19.9	2.50	7.80	16.6	17.0	8.52	26.4 [11.8]	15.5	7.81	12.0	12.7	
Miscellaneous																				
Total solids	%	89 [90]	89	92	92	89 [89]	86 [86]	85	77	97	89	90	89	90	90 [90]	89	88	89	91	

Table 16
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RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		P6-SB-10 6 07/27/11	P6-SB-10 18 - 19 07/27/11	P6-SB-11 0.5 - 2 07/26/11	P6-SB-11 1 - 2 07/27/11	P6-SB-11 6 - 7 07/27/11	P6-SB-11 9 - 10 07/27/11	P6-SB-12 1 07/27/11	P6-SB-12 9 - 10 07/27/11	P6-SB-13 1 - 1.5 07/27/11	P6-SB-13 9 - 10 07/27/11	P6-SB-14 3 - 4 08/01/11	P6-SB-14 9 - 10 08/01/11	P6-SB-15 6 - 7 08/01/11	P6-SB-15 12 - 13 08/01/11	P6-SB-16 2 - 3 08/01/11	P6-SB-16 13 - 14 08/01/11	P6-SB-16 19 - 20 08/01/11	P6-SB-17 1 - 2 08/01/11	P6-SB-17 10 - 11 08/01/11	P6-SB-17 19 - 20 08/01/11
	Units																				
Volatile Organics																					
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	NA	NA	<3	<3 J	<3 J	<3 J	<3 J	<3 J [<3 J]	<3 J	<3 J	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	NA	NA	<1 J	<1	<1 J	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
1,4-Dichlorobenzene	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
2-Hexanone	ug/kg	NA	NA	<680	<630	<660	<700	<580	<650 [<630]	<570	<650	<580	<590	<580	<610	<630	<600	<610	<590	<610	<600
Acetone	ug/kg	NA	NA	<680	<630	<660	<700	<580	<650 [<630]	<570	<650	<580	<590	<580	<610	<630	<600	<610	<590	<610	<600
Bromodichloromethane	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Bromoform	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Bromomethane (Methyl bromide)	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Carbon disulfide	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Carbon tetrachloride	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Chlorobenzene	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Chloroform (Trichloromethane)	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Chloromethane (Methyl chloride)	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
cis-1,3-Dichloropropene	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Methyl acetate	ug/kg	NA	NA	<680	<630	<660	<700	<2,440	<650 [<630]	<570	<650	<580	<590	<580	<610	<630	<600	<610	<590	<610	<600
Methylene chloride	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Styrene	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
trans-1,3-Dichloropropene	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Trifluorotrichloroethane (Freon 113)	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
1,4-Dioxane	ug/kg	NA	NA	<300	<300	<300	<300	<300	<300 [<300]	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
1,1,1-Trichloroethane	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
1,1,2,2-Tetrachloroethane	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
1,1,2-Trichloroethane	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
1,1-Dichloroethane	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
1,1-Dichloroethene	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
1,2-Dichloroethane	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
cis-1,2-Dichloroethene	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
trans-1,2-Dichloroethene	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Trichloroethene	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Tetrachloroethene	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Vinyl chloride	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Chloroethane	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Benzene	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Ethylbenzene	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Toluene	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	460	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
o-Xylene	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
m&p-Xylene	ug/kg	NA	NA	<100	<100	200	<90	<100	<100 [<100]	<100	200	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Xylene (total)	ug/kg	NA	NA	<170	<160	200	<160	<160	<170 [<160]	<160	200	<160	<160	<160	<160	<160	<160	<160	<160	<160	<160
Methyl tert butyl ether (MTBE)	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	NA	NA	<680	<630	<660	<700	<580	<650 [<630]	<570	<650	<580	<590	<580	<610	<630	<600	<610	<590	<610	<600
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	NA	NA	<680	<630	<660	<700	<580	<650 [<630]	<570	<650	<580	<590	<580	<610	<630	<600	<610	<590	<610	<600
1,2,4-Trichlorobenzene	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
1,3-Dichlorobenzene	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Cyclohexane	ug/kg	NA	NA	<120	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Methyl cyclohexane	ug/kg	NA	NA	200	<60	1,020	290	<60	<70 [<60]	<60	90	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Dibromochloromethane	ug/kg	NA	NA	<70	<60	<70	<70	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Isopropyl benzene	ug/kg	NA	NA	<70	<60	<70	130	<60	<70 [<60]	<60	<70	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		P6-SB-10 6 07/27/11	P6-SB-10 18 - 19 07/27/11	P6-SB-11 0.5 - 2 07/26/11	P6-SB-11 1 - 2 07/27/11	P6-SB-11 6 - 7 07/27/11	P6-SB-11 9 - 10 07/27/11	P6-SB-12 1 07/27/11	P6-SB-12 9 - 10 07/27/11	P6-SB-13 1 - 1.5 07/27/11	P6-SB-13 9 - 10 07/27/11	P6-SB-14 3 - 4 08/01/11	P6-SB-14 9 - 10 08/01/11	P6-SB-15 6 - 7 08/01/11	P6-SB-15 12 - 13 08/01/11	P6-SB-16 2 - 3 08/01/11	P6-SB-16 13 - 14 08/01/11	P6-SB-16 19 - 20 08/01/11	P6-SB-17 1 - 2 08/01/11	P6-SB-17 10 - 11 08/01/11	P6-SB-17 19 - 20 08/01/11
Units																					
Semivolatile Organics																					
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	<40	<40	R	<40	R	<40 [<u><40</u>]	<40	<40	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	NA	NA	<40	<40	<40	<40	<40	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2,4,6-Trichlorophenol	ug/kg	NA	NA	<40	<40	R	<40	R	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2,4-Dichlorophenol	ug/kg	NA	NA	<40	<40	R	<40	R	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2,4,5-Trichlorophenol	ug/kg	NA	NA	<40	<40	R	<40	R	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2,4-Dimethylphenol	ug/kg	NA	NA	<40	<40	R	<40	R	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2,4-Dinitrophenol	ug/kg	NA	NA	<40 J	<40 J	R	<40 J	R	<40 J [<u><40 J</u>]	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J	<40 J
2,4-Dinitrotoluene	ug/kg	NA	NA	<40	<40	<40	<40	<40	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2,6-Dinitrotoluene	ug/kg	NA	NA	<40	<40	<40	<40	<40	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2-Chloronaphthalene	ug/kg	NA	NA	<40	<40	<40	<40	<40	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2-Chlorophenol	ug/kg	NA	NA	<40	<40	R	<40	R	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2-Methylnaphthalene	ug/kg	NA	NA	<40	<40	<40	<40	<40	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2-Methylphenol	ug/kg	NA	NA	<40	<40	R	<40	R	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2-Nitroaniline	ug/kg	NA	NA	<40	<40	<40	<40	<40	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
2-Nitrophenol	ug/kg	NA	NA	<40	<40	R	<40	<40	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
3&4-Methylphenol	ug/kg	NA	NA	<40	<40	R	<40	R	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
3,3'-Dichlorobenzidine	ug/kg	NA	NA	<40	<40 J	<40	<40	<40	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Naphthalene	ug/kg	NA	NA	<40	<40	140 S	<40	<40	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
3-Nitroaniline	ug/kg	NA	NA	<40	<40	<40	<40	<40	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
4-Bromophenyl phenyl ether	ug/kg	NA	NA	<40	<40	<40	<40	<40	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
4-Chloro-3-methylphenol	ug/kg	NA	NA	<40	<40	R	<40	R	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
4-Chloroaniline	ug/kg	NA	NA	<40	<40	<40	<40	<40	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	<40	<40	<40	<40	<40	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
4-Nitroaniline	ug/kg	NA	NA	<40	<40	<40	<40	<40	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
4-Nitrophenol	ug/kg	NA	NA	<40	<40	R	<40	R	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Anthracene	ug/kg	NA	NA	<50	<40	<40	<40	<40	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Acenaphthene	ug/kg	NA	NA	<40	<40	<40	<40	<40	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Acenaphthylene	ug/kg	NA	NA	<40	<40	<40	<40	<40	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Acetophenone	ug/kg	NA	NA	<40	<40	<40	<40	<40	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Atrazine	ug/kg	NA	NA	<40	<40	<40	<40	<40	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Benzaldehyde	ug/kg	NA	NA	<40	<40	<40	<40	<40	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Benzo(a)anthracene	ug/kg	NA	NA	<120	60 J	<40	<40	80 S	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Benzo(a)pyrene	ug/kg	NA	NA	<120	80 J	<40	<40	90 J	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Benzo(b)fluoranthene	ug/kg	NA	NA	<130	180 J	<40	<40	120 J	<40 [<u><40</u>]	<40	<40	<40	<40	<40	<40	<					

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	P6-SB-10	P6-SB-10	P6-SB-11	P6-SB-11	P6-SB-11	P6-SB-11	P6-SB-11	P6-SB-12	P6-SB-12	P6-SB-13	P6-SB-13	P6-SB-14	P6-SB-14	P6-SB-15	P6-SB-15	P6-SB-16	P6-SB-16	P6-SB-16	P6-SB-17	P6-SB-17	P6-SB-17
		6	18 - 19	0.5 - 2	1 - 2	6 - 7	9 - 10	1	9 - 10	1 - 1.5	9 - 10	3 - 4	9 - 10	6 - 7	12 - 13	2 - 3	13 - 14	19 - 20	1 - 2	10 - 11	19 - 20	
		07/27/11	07/27/11	07/26/11	07/27/11	07/27/11	07/27/11	07/27/11	07/27/11	07/27/11	07/27/11	07/27/11	08/01/11	08/01/11	08/01/11	08/01/11	08/01/11	08/01/11	08/01/11	08/01/11	08/01/11	
PCBs																						
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3	<3	NA	NA	NA	NA	NA	NA	
Inorganics																						
Antimony	mg/kg	<0.23	<0.22	<0.26	<0.22	109 ^{ab}	0.87	1.31	0.68 [<0.22]	<0.23	<0.24	<0.22	<0.22	<0.22	<0.11	<0.22	<0.22	<0.24	<0.23	<0.21	<0.23	
Arsenic	mg/kg	0.20	2.15	5.55	0.93	1.62	0.64	1.85	1.00 [0.85]	0.75	1.21	1.12	0.89	1.08	1.22	1.34	1.22	1.72	1.28	1.58	2.02	
Barium	mg/kg	12.0	8.45	79.6 ⁱ	75.7 ⁱ	411 ⁱ	80.1 ⁱ	186 ⁱ	240 [137] ⁱ	29.4	104 ⁱ	36.1	32.2	33.8	31.2	42.2	17.3	21.8	47.6	28.6	19.2	
Beryllium	mg/kg	<0.11	<0.09	0.36	0.38	0.42	0.35	0.26	0.26 [0.27]	<0.17	0.35	0.25	0.22	0.26	0.17	0.36	0.15	0.15	0.23	0.25	0.16	
Boron	mg/kg	<0.23	<0.54	<2.44	<0.22	7.52	<0.26	14.9 ^a	<1.46 [<1.04]	<0.53	<1.36	2.31	1.85	2.13	<4.48	2.86	2.16	2.30	2.68	2.62	4.40	
Cadmium	mg/kg	<0.09	<0.05	0.42	0.28	10.88 ^{abi}	<0.08	0.26	0.27 [<0.17]	<0.09	0.35	0.08	0.08	0.10	<0.11	0.14	0.15	0.07	0.11	0.14	0.08	
Chromium VI (hexavalent)	mg/kg	<1	NA	NA	NA	NA	NA	NA	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	mg/kg	2.13	3.62	7.22	4.16	10.7	4.25	11.6	4.92 [4.34]	2.83	5.33	3.85	3.78	4.01	4.02	4.43	2.82	3.03	6.19	4.63	4.22	
Cobalt	mg/kg	1.05	1.55	4.34	3.21	1.07	1.65	2.47	3.99 [4.09]	1.83	4.82	3.64	3.69	3.63	4.22	5.64	2.61	2.99	4.22	3.44	2.95	
Copper	mg/kg	3.71	3.96	16.7	11.9	8.13	7.71	38.5 ⁱ	7.32 [7.53]	2.18	10.2	4.72	3.92	4.74	4.41	7.89	6.34	6.69	6.70	10.0	8.30	
Lead	mg/kg	2.64	2.25	142 ⁱ	16.4	105 ⁱ	5.24	49.3 ⁱ	18.6 [10.2]	5.45	27.2 ⁱ	4.23	3.55	3.61	3.77	4.31	3.15	3.90	4.88	4.80	3.79	
Manganese	mg/kg	65.9	124	641 ^{abi}	174	37.3	41.4	126	457 [575] ^{abi}	598 ^{abi}	341	264	289	289	329	304	190	265	283	271	228	
Mercury	mg/kg	<0.0069	<0.0064	0.2357 ^{bi}	<0.0342	<0.0239	<0.0247	<0.0195	<0.0159 [<0.0135]	<0.0139	<0.0273	0.0107	0.0121	0.0118	0.0132	0.0094	0.0071	0.0075	0.0103	0.0125	0.0174	
Nickel	mg/kg	2.25	3.54	9.28	5.93	4.06	4.60	9.06	6.59 [6.94]	4.96	5.66	6.92	8.53	7.59	10.3	8.80	6.00	6.25	8.37	7.80	7.29	
Selenium	mg/kg	<0.23	<0.22	<0.26	<0.22	2.51 ^{bi}	<0.26	<0.23	<0.23 [<0.22]	<0.23	<0.24	<0.22	<0.22	<0.22	0.14	<0.22	<0.22	<0.24	<0.23	<0.21	<0.23	
Silver	mg/kg	<0.11	<0.1	<0.13	<0.11	0.66	<0.13	<0.11	<0.12 [<0.11]	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12	<0.12	<0.11	<0.12	
Thallium	mg/kg	<0.02	<0.04	<0.05	<0.05	<0.03	<0.03	<0.05	<0.05 [<0.04]	<0.03	<0.04	<0.02	0.03	0.03	<0.11	0.05	0.07	0.11	0.03	0.08	0.08	
Vanadium	mg/kg	2.75	2.92	8.72	8.32	7.74	7.84	10.8	6.74 [7.28]	3.09	7.39	6.72	6.30	7.49	5.18	6.44	4.52	5.24	7.03	7.01	6.40	
Zinc	mg/kg	6.34	12.9	61.0 ⁱ	13.7	284 ^{bi}	10.0	39.0	23.1 [14.3]	7.39	32.4	10.8	10.4	10.8	9.73	18.7	10.4	11.6	13.7	19.2	12.9	
Miscellaneous																						
Total solids	%	90	88	85	89	86	83	92	87 [88]	94	87	90	88	89	88	87	90	89	90	88	90	

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		P6-SB-18 1 - 2 08/03/11	P6-SB-18 9 - 10 08/03/11	P6-SB-19 2 - 3 08/10/11	P6-SB-19 14 - 15 08/10/11	P6-SB-20 4 - 5 08/02/11	P6-SB-20 13 - 14 08/02/11	P6-SB-21 4 - 5 08/02/11	P6-SB-21 9 - 10 08/02/11	P6-SB-22 3 - 5 07/26/11	P6-SB-22 9 - 10 07/26/11	P6-SB-22 0.5 - 2.5 07/26/11	P6-SB-23 7 - 8 07/26/11	P6-SB-23 10 07/26/11	P6-SB-24 3 - 5 07/25/11	P6-SB-24 5 - 10 07/25/11	P6-SB-25 1 - 3 07/25/11	P6-SB-25 5 - 10 07/25/11	P6-SB-26 1 - 3 07/25/11	P6-SB-26 5 - 10 07/25/11	P6-SB-27 4 - 5 08/03/11	P6-SB-27 22 - 23 08/03/11
Units																						
Volatile Organics																						
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<3 [<3]	<3	<3 J	<3 J	<3	<3	<3	<3	<3 J	<3 J	<3 J	<3 J	<3 J	<4	<3	<3	<3	<3	<3	<3	<3
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<70	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
1,4-Dichlorobenzene	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
2-Hexanone	ug/kg	<630 [<640]	<610	<590	<620	<670	<580	<620	<660	<680	<700	<520	<690	<690	<700	<690	<610	<650	<640	<610	<660	<610
Acetone	ug/kg	<630 [<640]	<610	<590	<620	<670	<580	<620	<660	<680	<700	<520	<690	<690	<700	<690	<610	<650	<640	<610	<660	<610
Bromodichloromethane	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
Bromoform	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
Bromomethane (Methyl bromide)	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
Carbon disulfide	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
Carbon tetrachloride	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
Chlorobenzene	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
Chloroform (Trichloromethane)	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
Chloromethane (Methyl chloride)	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
cis-1,3-Dichloropropene	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
Dichlorodifluoromethane (CFC-12)	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
Methyl acetate	ug/kg	<630 [<640]	<610	<590	<620	<670	<580	<620	<660	<680	<700	<520	<690	<690	<700	<690	<610	<650	<640	<610	<660	<610
Methylene chloride	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
Styrene	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
trans-1,3-Dichloropropene	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
Trichlorofluoromethane (CFC-11)	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
Trifluorotrichloroethane (Freon 113)	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
1,4-Dioxane	ug/kg	<300 [<300]	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<400	<300	<300	<300	<300	<300	<300	<300
1,1,1-Trichloroethane	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
1,1,2,2-Tetrachloroethane	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
1,1,2-Trichloroethane	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
1,1-Dichloroethane	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
1,1-Dichloroethene	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
1,2-Dichloroethane	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
cis-1,2-Dichloroethene	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
trans-1,2-Dichloroethene	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
Trichloroethene	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
Tetrachloroethene	ug/kg	<60 [<60]	<60	<60	<60	<70	<60	<60	<70	<70	<70	<50	<70	<70	<70	<70	<60	<70	<60	<60	<70	<60
Vinyl chloride	ug/kg	<60 [<60]	<60	<																		

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	P6-SB-18	P6-SB-18	P6-SB-19	P6-SB-19	P6-SB-20	P6-SB-20	P6-SB-21	P6-SB-21	P6-SB-22	P6-SB-22	P6-SB-23	P6-SB-23	P6-SB-23	P6-SB-24	P6-SB-24	P6-SB-25	P6-SB-25	P6-SB-26	P6-SB-26	P6-SB-27	P6-SB-27
		1 - 2	9 - 10	2 - 3	14 - 15	4 - 5	13 - 14	4 - 5	9 - 10	3 - 5	9 - 10	0.5 - 2.5	7 - 8	10	3 - 5	5 - 10	1 - 3	5 - 10	1 - 3	5 - 10	4 - 5	22 - 23
		08/03/11	08/03/11	08/10/11	08/10/11	08/02/11	08/02/11	08/02/11	08/02/11	07/26/11	07/26/11	07/26/11	07/26/11	07/26/11	07/25/11	07/25/11	07/25/11	07/25/11	07/25/11	07/25/11	08/03/11	08/03/11
		Semivolatile Organics																				
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	<40 J	<40 J	<40	<40	<70	R	<40	<200	<40	<40	<40	<40	<40	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40
	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	R	<40	<200	<40	<40	<40	<40	<40	<40	<40
2,4-Dichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	R	<40	<200	<40	<40	<40	<40	<40	<40	<40
2,4,5-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	R	<40	<200	<40	<40	<40	<40	<40	<40	<40
2,4-Dimethylphenol	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	R	<40	<200	<40	<40	<40	<40	<40	<40	<40
2,4-Dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	<40 J	<40 J	<40 J	<40 J	<70	R	<40 J	<200	<40	<40	<40	<40	<40	<40 J	<40 J
2,4-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40
2,6-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40
2-Chloronaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40
2-Chlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	R	<40	<200	<40	<40	<40	<40	<40	<40	<40
2-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40
2-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	R	<40	<200	<40	<40	<40	<40	<40	<40	<40
2-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40
2-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	R	<40	<200	<40	<40	<40	<40	<40	<40	<40
3&4-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	R	<40	<200	<40	<40	<40	<40	<40	<40	<40
3,3'-Dichlorobenzidine	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	70 S	<140	<200	<40	<40	<40	<40	<40	<40	<40
3-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40
4-Bromophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40
4-Chloro-3-methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	R	<40	<200	<40	<40	<40	<40	<40	<40	<40
4-Chloroaniline	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40
4-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40
4-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	R	<40	<200	<40	<40	<40	<40	<40	<40	<40
Anthracene	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40
Acenaphthene	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40
Acenaphthylene	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40
Acetophenone	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40
Atrazine	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40
Benzaldehyde	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<70	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40
Benzo(a)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40	<40	<40	<110 J	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40
Benzo(a)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40 J	<40 J	<40	170 J	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40
Benzo(b)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40 J	<40 J	<40	230 J	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40
Benzo(g,h,i)perylene	ug/kg	NA	NA	NA	NA	NA	NA	<40	<40 J	<40 J	<40	120 J	<40	<40	<200	<40	<40	<40	<40	<		

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	P6-SB-18	P6-SB-18	P6-SB-19	P6-SB-19	P6-SB-20	P6-SB-20	P6-SB-21	P6-SB-21	P6-SB-22	P6-SB-22	P6-SB-23	P6-SB-23	P6-SB-23	P6-SB-24	P6-SB-24	P6-SB-25	P6-SB-25	P6-SB-26	P6-SB-26	P6-SB-27	P6-SB-27
		1 - 2	9 - 10	2 - 3	14 - 15	4 - 5	13 - 14	4 - 5	9 - 10	3 - 5	9 - 10	0.5 - 2.5	7 - 8	10	3 - 5	5 - 10	1 - 3	5 - 10	1 - 3	5 - 10	4 - 5	22 - 23
		08/03/11	08/03/11	08/10/11	08/10/11	08/02/11	08/02/11	08/02/11	08/02/11	07/26/11	07/26/11	07/26/11	07/26/11	07/26/11	07/25/11	07/25/11	07/25/11	07/25/11	07/25/11	07/25/11	08/03/11	08/03/11
PCBs																						
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3	<3	<3	<3	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3	<3	<3	<3	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3	<3	<3	<3	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3	<3	<3	<3	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3	<3	<3	<3	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3	<3	<3	<3	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3	<3	<3	<3	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	<3	<3	<3	<3	<3	NA	NA
Inorganics																						
Antimony	mg/kg	NA	NA	<0.12	<0.12	<0.12	<0.11	<0.11	<0.11	0.54	<0.26	<0.20	<0.24	0.52	<0.25	<0.24	<0.23	<0.25	<0.24	<0.23	<0.13	<0.12
Arsenic	mg/kg	NA	NA	1.80	1.89	1.52	1.22	1.29	1.23	1.39	0.43	1.88	1.08	2.02	0.45	0.80	1.58	1.15	0.95	1.17	1.08	1.21
Barium	mg/kg	NA	NA	31.2	16.8	52.2	31.7	28.1	23.5	78.7 ⁱ	13.2	74.3	39.3	17.3	88.7 ⁱ	45.8	31.6	37.0	44.0	27.8	54.7	23.4
Beryllium	mg/kg	NA	NA	0.19	0.16	0.43	0.13	0.18	0.15	0.45	<0.07	0.24	<0.19	<0.06	0.44	0.26	0.22	<0.19	0.30	0.20	0.29	<0.16
Boron	mg/kg	NA	NA	<4.72	<4.84	<4.72	<4.26	<4.38	<4.30	<0.41	<1.63	<1.70	<0.43	<0.24	<0.28	<0.94	<1.02	<1.22	<0.61	<1.35	<4.54	<4.62
Cadmium	mg/kg	NA	NA	<0.12	<0.12	0.41	<0.11	<0.11	<0.11	0.40	<0.05	0.34	0.28	<0.04	<0.19	<0.12	<0.08	<0.08	<0.07	<0.10	<0.14	<0.12
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	2.70 [2.27]	3.67	4.35	4.94	2.73	2.57	3.43	6.94	3.83	2.05	3.53	4.12	1.56	3.15	8.41	2.82	2.80	2.99	3.80	19.8 ⁱ	5.54
Cobalt	mg/kg	3.03 [3.19]	2.59	4.53	4.13	4.46	4.34	3.26	3.13	2.01	0.86	2.41	1.99	0.99	1.87	4.01	2.35	1.83	2.30	3.29	2.56	2.75
Copper	mg/kg	NA	NA	7.10	11.2	5.49	3.70	4.90	10.3	15.4	2.07	11.9	7.95	4.53	11.7	8.10	4.04	4.87	3.87	4.21	9.45	5.11
Lead	mg/kg	NA	NA	4.98	4.30	8.05	3.12	3.67	4.13	13.6	2.42	66.4 ⁱ	5.28	2.11	6.30	4.56	4.67	4.67	7.91	4.20	78.9 ⁱ	4.78
Manganese	mg/kg	244 [387]	208	362	277	621 ^{abi}	267	253	183	83.4	87.9	266	171	85.5	147	278	249	275	129	241	320	237
Mercury	mg/kg	NA	NA	0.0858	0.0098	0.0397	0.0082	0.0140	<0.0057	<0.0304	<0.0060	<0.0408	<0.0118	<0.0063	0.0566	<0.0248	<0.0164	<0.0168	<0.0203	<0.0150	<0.0278	<0.0126
Nickel	mg/kg	NA	NA	8.59	13.0	3.18	7.83	8.22	7.37	3.82	1.84	6.36	6.35	2.86	2.70	9.68	3.69	3.90	2.93	5.88	5.43	7.42
Selenium	mg/kg	NA	NA	0.15	0.26	0.25	0.20	0.12	0.23	<0.25	<0.25	<0.20	<0.24	<0.24	<0.25	<0.24	<0.23	<0.25	<0.24	<0.23	<0.18	<0.28
Silver	mg/kg	NA	NA	<0.12	<0.12	<0.12	<0.11	<0.11	<0.11	<0.13	<0.12	<0.10	<0.12	<0.12	<0.12	<0.12	<0.11	<0.12	<0.12	<0.12	<0.11	<0.12
Thallium	mg/kg	NA	NA	<0.12	<0.12	<0.12	<0.11	<0.11	<0.11	<0.04	<0.05	<0.05	<0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.11	<0.12	
Vanadium	mg/kg	NA	NA	6.64	6.87	16.5	3.72	4.75	5.12	10.9	2.94	7.57	4.16	4.26	7.83	7.42	4.97	4.59	6.00	5.51	6.52	4.20
Zinc	mg/kg	NA	NA	11.5	16.8	14.2	7.09	10.4	11.4	32.6	8.20	28.2	16.2	5.83	11.9	13.7	6.57	9.65	8.00	30.1	14.1	9.44
Miscellaneous																						
Total solids	%	87 [86]	88	89	89	83	90	88	85	84	85	98	84	87	83	85	90	88	88	90	86	90

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		P6-SB-27 26 - 27 08/03/11	P6-SB-29 2 - 3 08/02/11	P6-SB-29 9 - 10 08/02/11	P6-SB-30 4 08/09/11	P6-SB-30 9 - 10 08/09/11	P6-SB-31 3.5 - 4.5 08/09/11	P6-SB-31 9 - 10 08/09/11	P6-SB-32 4 - 5 08/08/11	P6-SB-32 11 - 12 08/08/11	P6-SB-32 19 - 20 08/08/11	P6-SB-32 7 - 8 08/08/11	P6-SB-33 19 - 20 08/08/11	P6-SB-33 1 - 5 07/26/11	P6-SB-34 7 07/26/11	P6-SB-34 9 - 10 07/26/11	P6-SB-35 1 - 2 08/02/11	P6-SB-35 9 - 10 08/02/11	P6-SB-36 1.5 - 2.5 08/03/11	P6-SB-36 9 - 10 08/03/11	P6-SB-37 1 - 2 08/03/11
Units																					
Volatile Organics																					
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<3	NA	NA	<2 J	<2 J	<2 J [<lt;2 j]<="" td=""><td><3 J</td><td><3 J</td><td><2 J</td><td><2 J</td><td><2 J</td><td><3 J</td><td><5</td><td><5</td><td><5</td><td><3</td><td><4</td><td><3 [<lt;3]< td=""><td><3 J</td><td><3</td></lt;3]<></td></lt;2>	<3 J	<3 J	<2 J	<2 J	<2 J	<3 J	<5	<5	<5	<3	<4	<3 [<lt;3]< td=""><td><3 J</td><td><3</td></lt;3]<>	<3 J	<3
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<1	NA	NA	<1 J	<1 J	<1 J [<lt;1 j]<="" td=""><td><1 J</td><td><1 J</td><td><1 J</td><td><1 J</td><td><1 J</td><td><1 J</td><td><2 J</td><td><2 l</td><td><2</td><td><1</td><td><1</td><td><1 [<lt;1]< td=""><td><1</td><td><1</td></lt;1]<></td></lt;1>	<1 J	<1 J	<1 J	<1 J	<1 J	<1 J	<2 J	<2 l	<2	<1	<1	<1 [<lt;1]< td=""><td><1</td><td><1</td></lt;1]<>	<1	<1
1,2-Dichlorobenzene	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
1,4-Dichlorobenzene	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
2-Hexanone	ug/kg	<590	NA	NA	<490 J	<490 J	<490 J [<lt;500 j]<="" td=""><td><500 J</td><td><510 J</td><td><490 J</td><td><490 J</td><td><500 J</td><td><500 J</td><td><960</td><td><980</td><td><980</td><td><600</td><td><740</td><td><640 [<lt;640]< td=""><td><620</td><td><630</td></lt;640]<></td></lt;500>	<500 J	<510 J	<490 J	<490 J	<500 J	<500 J	<960	<980	<980	<600	<740	<640 [<lt;640]< td=""><td><620</td><td><630</td></lt;640]<>	<620	<630
Acetone	ug/kg	<590	NA	NA	<490 J	<490 J	<490 J [<lt;500 j]<="" td=""><td><500 J</td><td><510 J</td><td><490 J</td><td><490 J</td><td><500 J</td><td><500 J</td><td><960</td><td><980</td><td><980</td><td><600</td><td><740</td><td><640 [<lt;640]< td=""><td><620</td><td><630</td></lt;640]<></td></lt;500>	<500 J	<510 J	<490 J	<490 J	<500 J	<500 J	<960	<980	<980	<600	<740	<640 [<lt;640]< td=""><td><620</td><td><630</td></lt;640]<>	<620	<630
Bromodichloromethane	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
Bromoform	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
Bromomethane (Methyl bromide)	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
Carbon disulfide	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
Carbon tetrachloride	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
Chlorobenzene	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
Chloroform (Trichloromethane)	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
Chloromethane (Methyl chloride)	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
cis-1,3-Dichloropropene	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
Dichlorodifluoromethane (CFC-12)	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
Methyl acetate	ug/kg	<590	NA	NA	<490 J	<490 J	<490 J [<lt;500 j]<="" td=""><td><500 J</td><td><510 J</td><td><490 J</td><td><490 J</td><td><500 J</td><td><500 J</td><td><960</td><td><980</td><td><980</td><td><600</td><td><740</td><td><640 [<lt;640]< td=""><td><620</td><td><630</td></lt;640]<></td></lt;500>	<500 J	<510 J	<490 J	<490 J	<500 J	<500 J	<960	<980	<980	<600	<740	<640 [<lt;640]< td=""><td><620</td><td><630</td></lt;640]<>	<620	<630
Methylene chloride	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
Styrene	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
trans-1,3-Dichloropropene	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
Trichlorofluoromethane (CFC-11)	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
Trifluorotrichloroethane (Freon 113)	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
1,4-Dioxane	ug/kg	<300	NA	NA	<300 J	<300 J	<300 J [<lt;300 j]<="" td=""><td><300 J</td><td><300 J</td><td><300 J</td><td><300 J</td><td><300 J</td><td><300 J</td><td><500</td><td><500</td><td><500</td><td><300</td><td><400</td><td><300 [<lt;300]< td=""><td><300</td><td><300</td></lt;300]<></td></lt;300>	<300 J	<300 J	<300 J	<300 J	<300 J	<300 J	<500	<500	<500	<300	<400	<300 [<lt;300]< td=""><td><300</td><td><300</td></lt;300]<>	<300	<300
1,1,1-Trichloroethane	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
1,1,2,2-Tetrachloroethane	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
1,1,2-Trichloroethane	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
1,1-Dichloroethane	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
1,1-Dichloroethene	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
1,2-Dichloroethane	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
cis-1,2-Dichloroethene	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
trans-1,2-Dichloroethene	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
Trichloroethene	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
Tetrachloroethene	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
Vinyl chloride	ug/kg	<60	NA	NA	<50 J	<50 J	<50 J [<lt;50 j]<="" td=""><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><50 J</td><td><100</td><td><100</td><td><100</td><td><60</td><td><70</td><td><60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<></td></lt;50>	<50 J	<50 J	<50 J	<50 J	<50 J	<50 J	<100	<100	<100	<60	<70	<60 [<lt;60]< td=""><td><60</td><td><60</td></lt;60]<>	<60	<60
Chloroethane	ug/kg	<60	NA	NA																	

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		P6-SB-27 26 - 27 08/03/11	P6-SB-29 2 - 3 08/02/11	P6-SB-29 9 - 10 08/02/11	P6-SB-30 4 08/09/11	P6-SB-30 9 - 10 08/09/11	P6-SB-31 3.5 - 4.5 08/09/11	P6-SB-31 9 - 10 08/09/11	P6-SB-32 4 - 5 08/08/11	P6-SB-32 11 - 12 08/08/11	P6-SB-32 19 - 20 08/08/11	P6-SB-33 7 - 8 08/08/11	P6-SB-33 19 - 20 08/08/11	P6-SB-34 1 - 5 07/26/11	P6-SB-34 7 07/26/11	P6-SB-34 9 - 10 07/26/11	P6-SB-35 1 - 2 08/02/11	P6-SB-35 9 - 10 08/02/11	P6-SB-36 1.5 - 2.5 08/03/11	P6-SB-36 9 - 10 08/03/11	P6-SB-37 1 - 2 08/03/11
	Units																				
Semivolatile Organics																					
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40 J	<40 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	R	<50 J	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	R	<50	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	R	<50	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	R	<50	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	R	<50	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/kg	<40 J	<40 J	<40 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	R	<50 J	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
2-Chlorophenol	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	R	<50	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	100 S	<50	NA	NA	NA	NA	NA
2-Methylphenol	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	R	<50	NA	NA	NA	NA	NA
2-Nitroaniline	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
2-Nitrophenol	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	R	<50	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	R	<50	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
Naphthalene	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	100 S	<50	NA	NA	NA	NA	NA
3-Nitroaniline	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	R	<50	NA	NA	NA	NA	NA
4-Chloroaniline	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
4-Nitroaniline	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
4-Nitrophenol	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	R	<50	NA	NA	NA	NA	NA
Anthracene	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
Acenaphthene	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
Acenaphthylene	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
Acetophenone	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
Atrazine	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
Benzaldehyde	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50 J	<100	<50	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50 J	<100	<50	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50 J	<100	<50	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50 J	<100	<50	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
Caprolactam	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
Carbazole	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
Chrysene	ug/kg	<70	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100	<200	<100	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/kg	<70	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100 J	<200	<100	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
Diethyl phthalate	ug/kg	<70	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100	<200	<100	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/kg	<70	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100	<200	<100	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/kg	<70	<70	<80	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100	<200	<100	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50 J	<100	<50	NA	NA	NA	NA	NA
Fluoranthene	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	50 S	<100	<50	NA	NA	NA	NA	NA
Fluorene	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
Hexachloroethane	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50 J	<100	<50	NA	NA	NA	NA	NA
Isophorone	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
Nitrobenzene	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
Pentachlorophenol	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	R	<50	NA	NA	NA	NA	NA
Phenanthrene	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<100	<50	NA	NA	NA	NA	NA
Phenol	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	R	<50	NA	NA	NA	NA	NA
Pyrene	ug/kg	<40	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	70 S	<100	<50	NA	NA	NA	NA	NA

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	P6-SB-27	P6-SB-29	P6-SB-29	P6-SB-30	P6-SB-30	P6-SB-31	P6-SB-31	P6-SB-32	P6-SB-32	P6-SB-32	P6-SB-32	P6-SB-33	P6-SB-33	P6-SB-34	P6-SB-34	P6-SB-34	P6-SB-35	P6-SB-35	P6-SB-36	P6-SB-36	P6-SB-37
		26 - 27	2 - 3	9 - 10	4	9 - 10	3.5 - 4.5	9 - 10	4 - 5	11 - 12	19 - 20	7 - 8	19 - 20	1 - 5	7	9 - 10	1 - 2	9 - 10	1.5 - 2.5	9 - 10	1 - 2	
		08/03/11	08/02/11	08/02/11	08/09/11	08/09/11	08/09/11	08/09/11	08/08/11	08/08/11	08/08/11	08/08/11	08/08/11	07/26/11	07/26/11	07/26/11	08/02/11	08/02/11	08/03/11	08/03/11	08/03/11	
PCBs																						
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Inorganics																						
Antimony	mg/kg	<0.11	<0.10	<0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.92	33.7 ^a	<0.27	NA	NA	NA	NA	
Arsenic	mg/kg	0.32	1.13	0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.87	1.07	4.31	NA	NA	NA	NA	
Barium	mg/kg	2.52	34.0	65.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	62.2	298 ⁱ	68.8	NA	NA	NA	NA	
Beryllium	mg/kg	<0.11	0.16	0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.96	0.53	0.40	NA	NA	NA	NA	
Boron	mg/kg	<4.28	<4.04	<4.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.57	5.95	<3.16	NA	NA	NA	NA	
Cadmium	mg/kg	<0.11	<0.10	0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.26	5.59 ^{bi}	0.34	NA	NA	NA	NA	
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	<1	NA	<1	NA	
Chromium	mg/kg	0.79	4.07	3.24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.68	11.3	5.65	3.29	3.15	2.63 [2.83]	2.70	
Cobalt	mg/kg	<0.42	3.09	2.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.12	0.98	4.28	1.72	1.35	1.01 [1.07]	1.99	
Copper	mg/kg	1.18	4.15	3.72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.57	11.4	21.2	NA	NA	NA	NA	
Lead	mg/kg	0.86	3.30	5.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.1 ⁱ	80.9 ⁱ	9.89	NA	NA	NA	NA	
Manganese	mg/kg	67.6	250	86.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	60.6	64.9	188	175	141	203 [196]	220	
Mercury	mg/kg	<0.0055	0.0098	0.0375	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0592	<0.0095	<0.0277	NA	NA	NA	NA	
Nickel	mg/kg	2.22	8.40	3.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.45	6.52	11.2	NA	NA	NA	NA	
Selenium	mg/kg	<0.11	<0.10	<0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	1.86 ^{bi}	0.57 ^{bi}	NA	NA	NA	NA	
Silver	mg/kg	<0.11	<0.10	<0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.14	<0.14	<0.14	NA	NA	NA	NA	
Thallium	mg/kg	<0.11	<0.10	<0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.13	<0.03	<0.11	NA	NA	NA	NA	
Vanadium	mg/kg	1.05	4.28	4.29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.11	5.29	11.4	NA	NA	NA	NA	
Zinc	mg/kg	2.42	7.98	7.94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35.6	61.6 ⁱ	32.7	NA	NA	NA	NA	
Miscellaneous																						
Total solids	%	91	89	82	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	68	68	68	89	79	86 [86]	88	

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		P6-SB-37 5 - 5.5 08/03/11	P6-SB-37 9 - 10 08/03/11	P6-SB-38 2 - 3 07/28/11	P6-SB-38 9 - 10 07/28/11	P6-SB-39 2 - 3 07/28/11	P6-SB-39 9 - 10 07/28/11	P6-SB-40 10 07/28/11	P6-SB-40 20 07/28/11	P6-SB-40 35 07/28/11	P6-SB-41 4 - 5 08/08/11	P6-SB-41 8 - 9 08/08/11	P6-SB-41 25 08/08/11	P6-SB-42 1 - 2 08/04/11	P6-SB-42 6 - 7 08/04/11	P6-SB-43 1 - 3 07/25/11	P6-SB-43 15 - 20 07/25/11	SB-A5.6-NI207 1 - 2 06/07/12	SB-A5.6-NI207 6 - 7 06/07/12	SB-A5.6-NI207 16 - 17 06/07/12
	Units																			
Volatile Organics																				
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<5	<3 [<3]	NA	NA	NA	NA	NA	NA	NA	<2 J	<3 J	<2 J	<2 J	<3 J	<3	<3 [<3]	<70	<70	<60
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<2	<1 [<1]	NA	NA	NA	NA	NA	NA	NA	<1 J	<1 J	<1 J	<0.9 J	<1 J	<1	<1 [<1]	<70	<70	<60
1,2-Dichlorobenzene	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
1,4-Dichlorobenzene	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
2-Hexanone	ug/kg	<1,100	<590 [<600]	NA	NA	NA	NA	NA	NA	NA	<500 J	<700 J	<500 J	<460 J	<510 J	<640	<610 [<590]	<690	<660	<620
Acetone	ug/kg	<1,100	<590 [<600]	NA	NA	NA	NA	NA	NA	NA	<500 J	20,000 DJ ^a	<500 J	<460 J	<510 J	<640	<610 [<590]	<690	<660	<620
Bromodichloromethane	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
Bromoform	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
Bromomethane (Methyl bromide)	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
Carbon disulfide	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
Carbon tetrachloride	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
Chlorobenzene	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
Chloroform (Trichloromethane)	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
Chloromethane (Methyl chloride)	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
cis-1,3-Dichloropropene	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
Dichlorodifluoromethane (CFC-12)	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
Methyl acetate	ug/kg	<1,100	<590 [<600]	NA	NA	NA	NA	NA	NA	NA	<500 J	<500 J	<500 J	<460 J	<510 J	<640	<610 [<590]	<690	<660	<620
Methylene chloride	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
Styrene	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
trans-1,3-Dichloropropene	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
Trichlorofluoromethane (CFC-11)	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
Trifluorotrichloroethane (Freon 113)	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 T	<50 T	<60	<60 [<60]	<70	<70	<60
1,4-Dioxane	ug/kg	<500	<300 [<300]	NA	NA	NA	NA	NA	NA	NA	<300 J	<300 J	<300 J	<300 J	<300 J	<300	<300 [<300]	<7,000	<7,000	<6,000
1,1,1-Trichloroethane	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
1,1,2,2-Tetrachloroethane	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
1,1,2-Trichloroethane	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
1,1-Dichloroethane	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
1,1-Dichloroethene	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
1,2-Dichloroethane	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
cis-1,2-Dichloroethene	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
trans-1,2-Dichloroethene	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
Trichloroethene	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
Tetrachloroethene	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	510 J ^a	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
Vinyl chloride	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 T	<50 T	<60	<60 [<60]	<70	<70	<60
Chloroethane	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
Benzene	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
Ethylbenzene	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	1,510 J ^{ab}	71,000 DJ ^{abcd}	<50 J	<50 J	250 J	<60	<60 [<60]	<70	<70	<60
Toluene	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	37,000 DJ ^{ab}	<50 J	<50 J	370 J	<60	<60 [<60]	<70	<70	<60
o-Xylene	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	280 J	144,000 DJ ^{ab}	<50 J	<50 J	740 J	<60	<60 [<60]	<70	<70	<60
m&p-Xylene	ug/kg	<200	<100 [<100]	NA	NA	NA	NA	NA	NA	NA	2,700 J ^b	36,000 EJ ^{abcd}	<100 J	<90 J	1,000 J ^b	<100	<100 [<100]	<100	<100	<100
Xylene (total)	ug/kg	<300	<160 [<160]	NA	NA	NA	NA	NA	NA	NA	2,980 J ^b	480,000 J ^{abcdff}	<150	<140	1,740 J ^b	<160	<160 [<160]	<170	<170	<160
Methyl tert butyl ether (MTBE)	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<1,100	<590 [<600]	NA	NA	NA	NA	NA	NA	NA	<500 J	2,580 J	<500 J	<460 J	<510 J	<640	<610 [<590]	<690	<660	<620
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<1,100	<590 [<600]	NA	NA	NA	NA	NA	NA	NA	<500 J	50,000 DJ ^a	<500 J	<460 J	<510 J	<640	<610 [<590]	<690	<660	<620
1,2,4-Trichlorobenzene	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
1,3-Dichlorobenzene	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
Cyclohexane	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	4,810 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
Methyl cyclohexane	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	750 J	<50 J	<50 J	240 J	<60	<60 [<60]	<70	<70	<60
Dibromochloromethane	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	<50 J	<50 J	<50 J	<50 J	<60	<60 [<60]	<70	<70	<60
Isopropyl benzene	ug/kg	<100	<60 [<60]	NA	NA	NA	NA	NA	NA	NA	<50 J	5,770 J ^b	<50 J	<50 J	570 J	<60	<60 [<60]	<70	<70	<60
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		P6-SB-37 5 - 5.5 08/03/11	P6-SB-37 9 - 10 08/03/11	P6-SB-38 2 - 3 07/28/11	P6-SB-38 9 - 10 07/28/11	P6-SB-39 2 - 3 07/28/11	P6-SB-39 9 - 10 07/28/11	P6-SB-40 10 07/28/11	P6-SB-40 20 07/28/11	P6-SB-40 35 07/28/11	P6-SB-41 4 - 5 08/08/11	P6-SB-41 8 - 9 08/08/11	P6-SB-41 25 08/08/11	P6-SB-42 1 - 2 08/04/11	P6-SB-42 6 - 7 08/04/11	P6-SB-43 1 - 3 07/25/11	P6-SB-43 15 - 20 07/25/11	SB-A5.6-NI207 1 - 2 06/07/12	SB-A5.6-NI207 6 - 7 06/07/12	SB-A5.6-NI207 16 - 17 06/07/12
Semivolatile Organics																				
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
2,4,6-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
2,4-Dichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
2,4,5-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
2,4-Dimethylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
2,4-Dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
2,4-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
2,6-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
2-Chloronaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
2-Chlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
2-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
2-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
2-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
2-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
3&4-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<80	<80	<80
3,3'-Dichlorobenzidine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
3-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
4-Bromophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
4-Chloro-3-methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
4-Chloroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
4-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
4-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
Anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
Acenaphthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
Acenaphthylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
Acetophenone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
Atrazine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
Benzaldehyde	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
Benzo(a)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
Benzo(a)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
Benzo(b)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
Benzo(g,h,i)perylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
Benzo(k)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
Biphenyl (1,1-Biphenyl)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
bis(2-Chloroethoxy)methane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40 J	<40 J	<40 J
bis(2-Chloroethyl)ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<50]	<80	<80	<80
Butyl benzylphthalate (BBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
Caprolactam	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
Chrysene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<80	<70 [<70]	<40	<40	<40
Dibenz(a,h)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<80	<70 [<70]	<80	<80	<80
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
Diethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<80	<70 [<70]	<80	<80	<80
Dimethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<80	<70 [<70]	<100 B	<110 B	<80 B
Di-n-butylphthalate (DBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<80	<70 [<70]	<80	<80	<80
Di-n-octyl phthalate (DnOP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<80	<80	<80
Fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<40	<40 [<40]	<40	<40	<40
Fluorene																				

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	P6-SB-37	P6-SB-37	P6-SB-38	P6-SB-38	P6-SB-39	P6-SB-39	P6-SB-40	P6-SB-40	P6-SB-40	P6-SB-41	P6-SB-41	P6-SB-41	P6-SB-42	P6-SB-42	P6-SB-43	P6-SB-43	SB-A5.6-NI207	SB-A5.6-NI207	SB-A5.6-NI207
		5 - 5.5	9 - 10	2 - 3	9 - 10	2 - 3	9 - 10	10	20	35	4 - 5	8 - 9	25	1 - 2	6 - 7	1 - 3	15 - 20	1 - 2	6 - 7	16 - 17
		08/03/11	08/03/11	07/28/11	07/28/11	07/28/11	07/28/11	07/28/11	07/28/11	07/28/11	08/08/11	08/08/11	08/08/11	08/04/11	08/04/11	07/25/11	07/25/11	06/07/12	06/07/12	06/07/12
PCBs																				
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																				
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.24	NA	<0.21	<0.21	<0.20
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.00	NA	1.62	0.71	1.48
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50.0	NA	100 ⁱ	34.6	23.9
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.24	NA	0.71	<0.21	<0.20
Boron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.35	NA	<4.2	<4.3	<4.1
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.08	NA	0.66	0.15	<0.10
Chromium VI (hexavalent)	mg/kg	<1	NA	<2	NA	NA	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	<0.26	1.91 [2.22]	8.00	3.57	3.99	4.44	3.28	3.63	1.88	NA	NA	NA	NA	NA	4.09	NA	9.55	7.44	6.42
Cobalt	mg/kg	1.62	3.07 [1.79]	4.84	3.65	1.91	6.28	2.97	2.76	1.50	NA	NA	NA	NA	NA	1.85	NA	6.86 ^{abi}	2.80	4.05
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.37	NA	13.9	5.68	10.7
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.29	3.85 [4.03]	44.0 ⁱ	4.42	4.29
Manganese	mg/kg	22.4	201 [158]	170	253	18.1	322	NA	NA	NA	NA	NA	NA	NA	NA	162	NA	87.3	209	275
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0486	<0.0102 [<0.0099]	0.0502	0.0095	0.0134
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.27	NA	8.97	11.0	12.1
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	<0.23	<0.23	<0.25	NA	NA	NA	NA	NA	<0.24	NA	0.57 ^{bi}	0.23	0.23
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.12	NA	<0.10	<0.10	<0.10
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.02	NA	<0.21	<0.21	<0.20
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.05	NA	14.8	7.82	8.32
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.6	NA	43.3	16.0	16.0
Miscellaneous																				
Total solids	%	64	90 [89]	80	88	86	92	83	90	84	NA	NA	NA	NA	NA	87	89 [91]	87	86	88

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.6-NM208 1 - 2 05/30/12	SB-A5.6-NM208 6 - 7 05/30/12	SB-A5.6-NM208 17 - 18 05/30/12	SB-A5.6-NP224 1 - 2 05/29/12	SB-A5.6-NP224 6 - 7 05/29/12	SB-A5.6-NP224 17 - 18 05/29/12	SB-A5.6-NQ208 1 - 2 06/07/12	SB-A5.6-NQ208 7 - 8 06/07/12	SB-A5.6-NQ208 16 - 17 06/07/12	SB-A5.6-NT220 1 - 2 05/29/12	SB-A5.6-NT220 6 - 7 06/04/12	SB-A5.6-NT220 10 - 11 06/04/12	SB-A5.6-NT220 19 - 20 06/04/12	SB-A5.6-NT236 1 - 2 05/25/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
1,2-Dichlorobenzene	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
1,4-Dichlorobenzene	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
2-Hexanone	ug/kg	<810	<840	<770	<870	NA	<840	<540	<680	<630	<860	<690 [<580]	<750	<620	<820
Acetone	ug/kg	<2,000	<2,100	<1,900	<2,200	NA	<2,100	<540	<680	<630	<2,100	<690 [<580]	<750	<620	<2,100
Bromodichloromethane	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
Bromoform	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	<50	<70	<60	NA	<70 [<60]	<70	<60	NA
Carbon disulfide	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
Carbon tetrachloride	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
Chlorobenzene	ug/kg	<81	<84	<77	<87	NA	<84	<50	70	<60	<86	<70 [<60]	<70	<60	<82
Chloroform (Trichloromethane)	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
Chloromethane (Methyl chloride)	ug/kg	<200	<210	<190	<220	NA	<210	<50	<70	<60	<210	<70 [<60]	<70	<60	<210
cis-1,3-Dichloropropene	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	<50	<70	<60	NA	<70 [<60]	<70	<60	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	<540	<680	<630	NA	<690 [<580]	<750	<620	NA
Methylene chloride	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
Styrene	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
trans-1,3-Dichloropropene	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	<50	<70	<60	NA	<70 [<60]	<70	<60	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
1,4-Dioxane	ug/kg	<810	<840	<770	<870	NA	<840	<5,000	<7,000	<6,000	<860	<7,000 [<6,000]	<7,000	<6,000	<820
1,1,1-Trichloroethane	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
1,1,2,2-Tetrachloroethane	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
1,1,2-Trichloroethane	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
1,1-Dichloroethane	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
1,1-Dichloroethene	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
1,2-Dichloroethane	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
cis-1,2-Dichloroethene	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
trans-1,2-Dichloroethene	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
Trichloroethene	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
Tetrachloroethene	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
Vinyl chloride	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
Chloroethane	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
Benzene	ug/kg	<81	<84	<77	27 J	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
Ethylbenzene	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
Toluene	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
o-Xylene	ug/kg	<81	<84	<77	16 J	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
m&p-Xylene	ug/kg	<160	<170	<150	<170	NA	<170	<100	<100	<100	<170	<100 [<100]	<100	<100	<160
Xylene (total)	ug/kg	<241	<254	<227	16 J	NA	<254	<150	<170	<160	<256	<170 [<160]	<170	<160	<242
Methyl tert butyl ether (MTBE)	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<810	<840	<770	<870	NA	<840	<540	<680	<630	<860	<690 [<580]	<750	<620	<820
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<810 J	<840 J	<770 J	<870	NA	<840	<540	<680	<630	<860	<690 [<580]	<750	<620	<820
1,2,4-Trichlorobenzene	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
1,2,4-Trimethylbenzene	ug/kg	<81	<84	<77	<87	NA	<84	NA	NA	NA	<86	NA	NA	NA	<82
1,3,5-Trimethylbenzene	ug/kg	<81	<84	<77	30 J	NA	<84	NA	NA	NA	<86	NA	NA	NA	<82
1,2-Dichloropropane	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
1,3-Dichlorobenzene	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
Cyclohexane	ug/kg	<81	<84	<77	110	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
Methyl cyclohexane	ug/kg	32 J	<84	<77	440	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
Dibromochloromethane	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
Isopropyl benzene	ug/kg	<81	<84	<77	<87	NA	<84	<50	<70	<60	<86	<70 [<60]	<70	<60	<82
Naphthalene	ug/kg	<81	<84	<77	110	NA	<84	NA	NA	NA	<86	NA	NA	NA	<82

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.6-NM208 1 - 2 05/30/12	SB-A5.6-NM208 6 - 7 05/30/12	SB-A5.6-NM208 17 - 18 05/30/12	SB-A5.6-NP224 1 - 2 05/29/12	SB-A5.6-NP224 6 - 7 05/29/12	SB-A5.6-NP224 17 - 18 05/29/12	SB-A5.6-NQ208 1 - 2 06/07/12	SB-A5.6-NQ208 7 - 8 06/07/12	SB-A5.6-NQ208 16 - 17 06/07/12	SB-A5.6-NT220 1 - 2 05/29/12	SB-A5.6-NT220 6 - 7 06/04/12	SB-A5.6-NT220 10 - 11 06/04/12	SB-A5.6-NT220 19 - 20 06/04/12	SB-A5.6-NT236 1 - 2 05/25/12
	Units														
Semivolatile Organics															
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
2,4-Dichlorophenol	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
2,4-Dimethylphenol	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
2,4-Dinitrophenol	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
2-Chloronaphthalene	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
2-Chlorophenol	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
2-Methylnaphthalene	ug/kg	50	<40	<40	100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
2-Methylphenol	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
2-Nitroaniline	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
2-Nitrophenol	ug/kg	<40 J	<40 J	<40 J	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
3&4-Methylphenol	ug/kg	<70	<80	<70	<300	<80	<70	<80	<80	<70	<80	<80 [<200]	<80	<70	<70
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
Naphthalene	ug/kg	<40	<40	<40	200	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
3-Nitroaniline	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
4-Chloroaniline	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
4-Nitroaniline	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
4-Nitrophenol	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
Anthracene	ug/kg	<40	<40	<40	200	<40	<40	<40	<40	<40	40	<40 [<90]	<40	<40	<40
Acenaphthene	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
Acenaphthylene	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
Acetophenone	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
Atrazine	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
Benzaldehyde	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
Benzo(a)anthracene	ug/kg	40	<40	<40	100	60	<40	<40	<40	<40	150	60 [<90]	<40	<40	<40
Benzo(a)pyrene	ug/kg	40	<40	<40	100 J	60	<40	<40	<40	<40	160 J	60 [<90]	<40	<40	<40
Benzo(b)fluoranthene	ug/kg	100 J	<40	<40	400 J	130 J	<40	60 J	<40	<40	420 J	110 J [<90]	<40	<40	<40
Benzo(g,h,i)perylene	ug/kg	40	<40	<40	R	<40	<40	<40	<40	<40	70 J	<40 [<90]	<40	<40	<40
Benzo(k)fluoranthene	ug/kg	110 J	<40	<40	500 J	130 J	<40	60 J	<40	<40	430 J	110 J [<90]	<40	<40	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
bis(2-Chloroethoxy)methane	ug/kg	<40 J	<40 J	<40 J	<100	<40	<40	<40 J	<40 J	<40 J	<40	<40 [<90]	<40	<40	<40
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70	<80	<70	<300	<80	<70	<70	<80	<70	<80	90 [<200]	<80	<70	<70
Butyl benzylphthalate (BBP)	ug/kg	50	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
Caprolactam	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
Carbazole	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
Chrysene	ug/kg	50	<40	<40	200	70	<40	<40	<40	<40	160	60 [<90]	<40	<40	<40
Dibenz(a,h)anthracene	ug/kg	<70	<80	<70	<300	<80	<70	<70	<80	<70	<80 J	<80 [<200]	<80	<70	<70
Dibenzofuran	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
Diethyl phthalate	ug/kg	<70	<80	<70	<300	<80	<70	<70	<80	<70	<80	<80 [<200]	<80	<70	<70
Dimethyl phthalate	ug/kg	<170 B	<110 B	<200 B	<100 B	<190 B	<50 B	<160 B	<70 B	<90 B	<170 B	<300 B [<150 B]	<100 B	<120 B	<40
Di-n-butylphthalate (DBP)	ug/kg	<70	<80	<70	<300	190 B	<70	<70	<80	<70	<80	6,000 D [<6,900 B]	<80	<70	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<70	<80	<70	R	<80	<70	<70	<80	<70	100 J	<80 [<200]	<80	<70	<70
Fluoranthene	ug/kg	70	<40	<40	200	100	<40	<40	<40	<40	280	130 [<90]	<40	<40	<40
Fluorene	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
Hexachlorobenzene	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
Hexachlorobutadiene	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
Hexachlorocyclopentadiene	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
Hexachloroethane	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	<40	R	<40	<40	<40	<40	<40	60 J	<40 [<90]	<40	<40	<40
Isophorone	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
Nitrobenzene	ug/kg	<40 J	<40 J	<40 J	<100	<40	<40	<40 J	<40 J	<40 J	<40	<40 [<90]	<40	<40	<40
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
N-Nitrosodiphenylamine	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
Pentachlorophenol	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
Phenanthrene	ug/kg	50	<40	<40	200	40	<40	<40	<40	<40	170	70 [<90]	<40	<40	<40
Phenol	ug/kg	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40 [<90]	<40	<40	<40
Pyrene	ug/kg	70	<40	<40	300	90	<40	<40	<40	<40	360	120 [<90]	<40	<40	<40

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A5.6-NM208	SB-A5.6-NM208	SB-A5.6-NM208	SB-A5.6-NP224	SB-A5.6-NP224	SB-A5.6-NP224	SB-A5.6-NQ208	SB-A5.6-NQ208	SB-A5.6-NQ208	SB-A5.6-NQ208	SB-A5.6-NT220	SB-A5.6-NT220	SB-A5.6-NT220	SB-A5.6-NT236
		1 - 2	6 - 7	17 - 18	1 - 2	6 - 7	17 - 18	1 - 2	7 - 8	16 - 17	1 - 2	6 - 7	10 - 11	19 - 20	1 - 2
		05/30/12	05/30/12	05/30/12	05/29/12	05/29/12	05/29/12	06/07/12	06/07/12	06/07/12	05/29/12	06/04/12	06/04/12	06/04/12	05/25/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	<0.20	<0.21	<0.21	8.45 ^a	3.84	<0.21	<0.20	<0.20	<0.21	0.31	1.53 [1.46]	<0.22	<0.21	<0.20
Arsenic	mg/kg	1.79	0.44	1.56	12.6 ^{abi}	7.32 ^{abi}	0.89	1.10	0.97	1.19	0.92	0.58 [0.49]	1.68	1.34	0.45
Barium	mg/kg	36.7	104 ⁱ	25.2	2,290 ^{abi}	798 ^{bi}	37.5	8.79	40.0	28.1	77.7 ⁱ	59.2 [57.8]	50.8	74.6	13.7
Beryllium	mg/kg	<0.20	0.37	<0.21	0.39	0.48	<0.21	<0.20	<0.20	<0.21	0.21	<0.21 [<0.2]	0.42	<0.21	<0.20
Boron	mg/kg	<4.0	<4.2	<4.2	<4.4	6.67	<4.2	<4.0	<4.1	<4.2	<4.1	<4.2 [<4]	<4.4	<4.2	<4.0
Cadmium	mg/kg	0.20	0.12	<0.10	10.9 ^{abi}	3.12 ⁱ	0.12	0.11	0.14	<0.10	0.41	1.05 [1.11]	<0.11	<0.10	<0.10
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	4.60	11.1	6.30	18.1 ⁱ	10.8	3.13	2.52	3.04	6.00	4.90	7.42 [17.4]	7.79	4.99	1.78
Cobalt	mg/kg	8.06 ^{abi}	4.33	3.94	18.9 ^{abi}	6.95 ^{abi}	3.19	25.7 ^{abi}	1.76	3.69	2.20	1.83 [1.67]	3.72	3.28	1.95
Copper	mg/kg	9.22	8.54	10.0	53.4 ⁱ	903 ^{bi}	10.3	8.00	1.83	8.82	11.5	6.89 [6.04]	15.6	8.08	1.14
Lead	mg/kg	33.9 ⁱ	6.99	4.57	1,540 ^{affi}	15,300 ^{abfi}	5.21	14.0	3.78	4.15	191 ⁱ	13.4 [9.02]	8.80	4.15	2.14
Manganese	mg/kg	159	148	245	299	217	233	117	68.8	248	135	58.2 [48.7]	135	269	496 ^{abi}
Mercury	mg/kg	0.0257	0.0422	0.0125	0.0440	0.0811	0.0103	0.0104	0.0262	0.0121	0.0436	0.0332 [0.009]	0.0153	0.0090	0.0112
Nickel	mg/kg	7.21	9.68	11.4	9.95	17.6	8.29	7.89	3.11	11.3	4.63	5.83 [5.85]	9.19	10.3	8.12
Selenium	mg/kg	<0.20	<0.21	<0.21	0.35	0.39	<0.21	<0.20	0.29	0.36	<0.20	<0.21 [<0.2]	<0.22	<0.21	<0.20
Silver	mg/kg	0.55	<0.10	<0.10	1.31 ^{bi}	1.62 ^{bi}	<0.10	3.78 ^{bi}	<0.10	<0.10	<0.10	<0.10 [<0.1]	<0.11	<0.10	<0.10
Thallium	mg/kg	<0.20	<0.21	<0.21	<0.22	0.53	<0.21	<0.20	<0.20	<0.21	<0.20	<0.21 [<0.2]	<0.22	<0.21	<0.20
Vanadium	mg/kg	5.77	10.3	9.75	1.82	8.88	6.60	3.49	5.21	8.04	6.19	4.65 [4.27]	22.7	7.23	2.04
Zinc	mg/kg	25.9	17.1	15.0	504 ^{bi}	1,200 ^{bi}	17.6	18.7	6.52	14.4	29.8	31.7 [28.6]	20.6	11.8	2.98
Miscellaneous															
Total solids	%	91	83	90	77	81	89	94	86	89	86	86 [91]	79	90	93

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.6-NT236 4 - 5 05/25/12	SB-A5.6-NT236 12 - 13 05/25/12	SB-A5.6-NU227 0.5 - 1 05/25/12	SB-A5.6-NU227 15 - 16 05/25/12	SB-A5.6-NV216 1 - 2 05/30/12	SB-A5.6-NV216 11 - 12 05/30/12	SB-A5.6-NX224 1 - 2 05/29/12	SB-A5.6-NX224 5 - 6 05/29/12	SB-A5.6-NX224 15 - 16 05/29/12	SB-A5.6-NX232 1 - 2 05/25/12	SB-A5.6-NX232 12 - 13 05/25/12	SB-A5.6-NX240 1 - 2 05/25/12	SB-A5.6-NX240 13 - 14 05/25/12	SB-A5.6-OB236 2 - 3 05/25/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
1,2-Dichlorobenzene	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
1,4-Dichlorobenzene	ug/kg	<170	<78	<73	<73	22 J	<69	<79	NA	<93	<80	<83	<78	<76	<79
2-Hexanone	ug/kg	<1,700	<780	<730	<730	<780	<690	<790	NA	<930	<800	<830	<780	<760	<790
Acetone	ug/kg	<4,300	<1,900	<1,800	<1,800	<1,900	<1,700	<2,000	NA	<2,300	<2,000	<2,100	<2,000	<1,900	<2,000
Bromodichloromethane	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
Bromoform	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
Carbon tetrachloride	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
Chlorobenzene	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
Chloroform (Trichloromethane)	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
Chloromethane (Methyl chloride)	ug/kg	<430	<190	<180	<180	<190	<170	<200	NA	<230	<200	<210	<200	<190	<200
cis-1,3-Dichloropropene	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
Styrene	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
trans-1,3-Dichloropropene	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
1,4-Dioxane	ug/kg	<1,700	<780	<730	<730	<780	<690	<790	NA	<930	<800	<830	<780	<760	<790
1,1,1-Trichloroethane	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
1,1,2,2-Tetrachloroethane	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
1,1,2-Trichloroethane	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
1,1-Dichloroethane	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
1,1-Dichloroethene	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
1,2-Dichloroethane	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
cis-1,2-Dichloroethene	ug/kg	<170	<78	<73	180	23 J	<69	<79	NA	<93	<80	<83	<78	<76	<79
trans-1,2-Dichloroethene	ug/kg	<170	<78	<73	17 J	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
Trichloroethene	ug/kg	<170	<78	<73	60 J	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
Tetrachloroethene	ug/kg	<170	<78	<73	<73	26 J	<69	<79	NA	<93	<80	<83	<78	<76	<79
Vinyl chloride	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
Chloroethane	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
Benzene	ug/kg	<170	<78	<73	<73	9.3 J	<69	<79	NA	<93	<80	<83	<78	<76	<79
Ethylbenzene	ug/kg	44 J	<78	<73	<73	33 J	<69	<79	NA	<93	<80	<83	<78	<76	<79
Toluene	ug/kg	110 J	<78	14 J	<73	73 J	<69	<79	NA	<93	<80	<83	<78	<76	<79
o-Xylene	ug/kg	170 J	<78	18 J	<73	110	<69	<79	NA	<93	<80	<83	<78	<76	<79
m&p-Xylene	ug/kg	<340	<160	<150	<150	<160	<140	<160	NA	<190	<160	<170	<160	<150	<160
Xylene (total)	ug/kg	170 J	<238	18 J	<223	110	<209	<239	NA	<283	<240	<253	<238	<226	<239
Methyl tert butyl ether (MTBE)	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<1,700	<780	<730	<730	<780	<690	<790	NA	<930	<800	<830	<780	<760	<790
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<1,700	<780	<730	<730	<780 J	<690 J	<790	NA	<930	<800	<830	<780	<760	<790
1,2,4-Trichlorobenzene	ug/kg	<170	<78	<73	<73	400 J	<69	<79	NA	<93	<80	<83	<78	<76	<79
1,2,4-Trimethylbenzene	ug/kg	150 J	<78	<73	<73	110 J	<69	<79	NA	<93	<80	<83	<78	<76	<79
1,3,5-Trimethylbenzene	ug/kg	<170	<78	<73	<73	38 J	<69	<79	NA	<93	<80	<83	<78	<76	<79
1,2-Dichloropropane	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
1,3-Dichlorobenzene	ug/kg	<170	<78	<73	<73	44 J	<69	<79	NA	<93	<80	<83	<78	<76	<79
Cyclohexane	ug/kg	230	<78	<73	<73	150 J	<69	<79	NA	<93	<80	<83	<78	<76	<79
Methyl cyclohexane	ug/kg	450	<78	43 J	<73	260	<69	<79	NA	<93	<80	<83	<78	<76	<79
Dibromochloromethane	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
Isopropyl benzene	ug/kg	<170	<78	<73	<73	<78	<69	<79	NA	<93	<80	<83	<78	<76	<79
Naphthalene	ug/kg	260	<78	<73	<73	160	<69	<79	NA	<93	<80	<83	<78	<76	<79

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.6-NT236 4 - 5 05/25/12	SB-A5.6-NT236 12 - 13 05/25/12	SB-A5.6-NU227 0.5 - 1 05/25/12	SB-A5.6-NU227 15 - 16 05/25/12	SB-A5.6-NV216 1 - 2 05/30/12	SB-A5.6-NV216 11 - 12 05/30/12	SB-A5.6-NX224 1 - 2 05/29/12	SB-A5.6-NX224 5 - 6 05/29/12	SB-A5.6-NX224 15 - 16 05/29/12	SB-A5.6-NX232 1 - 2 05/25/12	SB-A5.6-NX232 12 - 13 05/25/12	SB-A5.6-NX240 1 - 2 05/25/12	SB-A5.6-NX240 13 - 14 05/25/12	SB-A5.6-OB236 2 - 3 05/25/12
	Units														
Semivolatile Organics															
2-Methyl-4,6-dinitrophenol	ug/kg	<70	<40	<70	<40	<100	<40	<40 J	<40	<40	<50	<40	<30	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	<70	<40	<70	<40	<100	<40	<40 J	<40	<40	<50	<40	<30	<40	<40
2,4,6-Trichlorophenol	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
2,4-Dichlorophenol	ug/kg	<70	<40	<70	<40	<100	<40	R	<40	<40	<50	<40	<30	<40	<40
2,4,5-Trichlorophenol	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
2,4-Dimethylphenol	ug/kg	<70	<40	<70	<40	<100	<40	<40 J	<40	<40	<50	<40	<30	<40	<40
2,4-Dinitrophenol	ug/kg	<70	<40	<70	<40	<100	<40	R	<40	<40	<50	<40	<30	<40	<40
2,4-Dinitrotoluene	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
2,6-Dinitrotoluene	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
2-Chloronaphthalene	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
2-Chlorophenol	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
2-Methylnaphthalene	ug/kg	350	<40	<70	<40	700	<40	<40	<40	<40	<50	<40	<30	<40	<40
2-Methylphenol	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
2-Nitroaniline	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
2-Nitrophenol	ug/kg	<70	<40	<70	<40	<100 J	<40 J	<40 J	<40	<40	<50	<40	<30	<40	<40
3&4-Methylphenol	ug/kg	<100	<80	<100	<70	<300	<80	<80	<80	<70	<90	<80	<70	<80	<80
3,3'-Dichlorobenzidine	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
Naphthalene	ug/kg	200	<40	<70	<40	400	<40	<40	<40	<40	<50	<40	<30	<40	<40
3-Nitroaniline	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
4-Bromophenyl phenyl ether	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
4-Chloro-3-methylphenol	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
4-Chloroaniline	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
4-Nitroaniline	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
4-Nitrophenol	ug/kg	<70	<40	<70	<40	<100	<40	<40 J	<40	<40	<50	<40	<30	<40	<40
Anthracene	ug/kg	<70	<40	<70	<40	200	<40	<40	<40	<40	<50	<40	<30	<40	<40
Acenaphthene	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
Acenaphthylene	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
Acetophenone	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
Atrazine	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
Benzaldehyde	ug/kg	<150	<40	<70	<40	<300	<40	<40	<40	<40	<50	<40	<30	<40	<40
Benzo(a)anthracene	ug/kg	80	<40	<70	<40	600	<40	<40	40	<40	<50	<40	<30	<40	<40
Benzo(a)pyrene	ug/kg	<70	<40	<70 J	<40	600	<40	<40	120	<40	<50	<40	<30	<40	<40
Benzo(b)fluoranthene	ug/kg	150 J	<40	150 J	<40	1,500 J	<40	<40	230 J	<40	<50	<40	<30	<40	<40
Benzo(g,h,i)perylene	ug/kg	<70	<40	<70 J	<40	300	<40	<40	120	<40	<50	<40	<30	<40	<40
Benzo(k)fluoranthene	ug/kg	150 J	<40	150 J	<40	1,600 J	<40	<40	240 J	<40	<50	<40	<30	<40	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
bis(2-Chloroethoxy)methane	ug/kg	<70	<40	<70	<40	<100 J	<40 J	<40 J	<40	<40	<50	<40	<30	<40	<40
bis(2-Chloroethyl)ether	ug/kg	<70	<40	<70	<40	<100	<40	<40 J	<40	<40	<50	<40	<30	<40	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<100	<80	<100	<70	400	<80	<80	<80	<70	<90	<80	<70	<80	<80
Butyl benzylphthalate (BBP)	ug/kg	<70	<40	<70	<40	300	<40	<40	<40	<40	<50	<40	<30	<40	<40
Caprolactam	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
Carbazole	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
Chrysene	ug/kg	100	<40	<70	<40	900	<40	<40	50	<40	<50	<40	<30	<40	<40
Dibenz(a,h)anthracene	ug/kg	<100	<80	<100 J	<70	<300	<80	<80	<80	<70	<90	<80	<70	<80	<80
Dibenzofuran	ug/kg	80	<40	<70	<40	300	<40	<40	<40	<40	<50	<40	<30	<40	<40
Diethyl phthalate	ug/kg	<100	<80	<100	<70	<300	<80	<80	<80	<70	<90	<80	<70	<80	<80
Dimethyl phthalate	ug/kg	<70	<220 B	<170 B	<80 B	<300 B	<110 B	<130 B	<160 B	<50 B	<90 B	<110 B	<30	<40	<100 B
Di-n-butylphthalate (DBP)	ug/kg	<100	<80	200	<70	<300	<80	<80	<80	<70	<90	<80	<70	<80	<80
Di-n-octyl phthalate (DnOP)	ug/kg	<100	<80	<100 J	<70	<300	<80	<80	<80	<70	<90	<80	<70	<80	<80
Fluoranthene	ug/kg	140	<40	<70	<40	1,400	<40	<40	40	<40	<50	<40	<30	<40	<40
Fluorene	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
Hexachlorobenzene	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
Hexachlorobutadiene	ug/kg	<70	<40	<70	<40	<100	<40	<40 J	<40	<40	<50	<40	<30	<40	<40
Hexachlorocyclopentadiene	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
Hexachloroethane	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<70	<40	<70 J	<40	300	<40	<40	110	<40	<50	<40	<30	<40	<40
Isophorone	ug/kg	<70	<40	<70	<40	<100	<40	<40 J	<40	<40	<50	<40	<30	<40	<40
Nitrobenzene	ug/kg	<70	<40	<70	<40	<100 J	<40 J	<40 J	<40	<40	<50	<40	<30	<40	<40
N-Nitrosodi-n-propylamine	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
N-Nitrosodiphenylamine	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
Pentachlorophenol	ug/kg	<70	<40	<70	<40	<100	<40	<40 J	<40	<40	<50	<40	<30	<40	<40
Phenanthrene	ug/kg	200	<40	<70	<40	900	<40	<40	<40	<40	<50	<40	<30	<40	<40
Phenol	ug/kg	<70	<40	<70	<40	<100	<40	<40	<40	<40	<50	<40	<30	<40	<40
Pyrene	ug/kg	140	<40	80	<40	1,300	<40	<40	40	<40	<50	<40	<30	<40	<40

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.6-NT236 4 - 5 05/25/12	SB-A5.6-NT236 12 - 13 05/25/12	SB-A5.6-NU227 0.5 - 1 05/25/12	SB-A5.6-NU227 15 - 16 05/25/12	SB-A5.6-NV216 1 - 2 05/30/12	SB-A5.6-NV216 11 - 12 05/30/12	SB-A5.6-NX224 1 - 2 05/29/12	SB-A5.6-NX224 5 - 6 05/29/12	SB-A5.6-NX224 15 - 16 05/29/12	SB-A5.6-NX232 1 - 2 05/25/12	SB-A5.6-NX232 12 - 13 05/25/12	SB-A5.6-NX240 1 - 2 05/25/12	SB-A5.6-NX240 13 - 14 05/25/12	SB-A5.6-OB236 2 - 3 05/25/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	0.21	<0.22	5.48 ^a	<0.21	0.24	<0.22	<0.20	0.32	<0.20	<0.24	<0.20	<0.20	<0.22	<0.20
Arsenic	mg/kg	2.06	0.47	3.69	1.00	2.84	0.77	0.49	0.37	0.76	1.27	1.18	1.01	1.11	0.74
Barium	mg/kg	169 ⁱ	45.4	446 ⁱ	29.6	51.5	44.1	11.7	32.6	45.9	18.1	30.8	7.60	11.8	13.6
Beryllium	mg/kg	0.42	0.24	<0.20	<0.21	0.38	0.35	<0.20	<0.20	<0.20	<0.24	<0.20	<0.20	<0.22	<0.20
Boron	mg/kg	<4.1	<4.4	<4.0	<4.2	<4.0	<4.5	<4.0	<4.0	<4.0	<4.8	<4.0	<4.0	<4.4	<4.1
Cadmium	mg/kg	0.61	0.20	1.63 ⁱ	0.11	0.78	0.16	0.36	0.10	<0.10	0.16	0.10	<0.10	<0.11	<0.10
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	4.57	3.16	6.70	2.60	14.8	5.67	0.77	1.09	3.36	3.05	2.67	1.00	2.70	1.43
Cobalt	mg/kg	3.25	2.40	2.53	1.86	6.87 ^{abi}	3.43	1.02	1.22	2.97	2.72	3.35	1.21	2.23	3.10
Copper	mg/kg	14.7	7.16	97.7 ⁱ	4.29	26.2	11.7	2.21	4.65	4.35	1.73	5.10	2.21	3.56	2.60
Lead	mg/kg	258 ⁱ	4.97	1,860 ^{afi}	2.92	106 ⁱ	7.73	3.44	15.8	4.06	5.29	3.62	3.32	2.21	7.53
Manganese	mg/kg	323	268	244	189	393	131	102	140	220	696 ^{abi}	544 ^{abi}	94.9	255	138
Mercury	mg/kg	0.0680	0.0167	0.4009 ^{bi}	0.0072	0.0916	0.0228	0.0084	0.0062	0.0124	0.0131	0.0140	0.0053	0.0106	0.0105
Nickel	mg/kg	6.87	6.04	8.97	7.07	18.5	8.50	2.15	4.65	7.67	11.3	7.33	3.23	8.53	3.70
Selenium	mg/kg	0.22	<0.22	<0.20	0.26	0.30	0.22	<0.20	0.24	0.20	0.24	0.27	<0.20	<0.22	<0.20
Silver	mg/kg	<0.10	<0.11	0.33	<0.10	0.16	<0.11	<0.10	<0.10	<0.10	0.14	<0.10	<0.10	<0.11	0.26
Thallium	mg/kg	<0.20	<0.22	<0.20	<0.21	<0.20	<0.22	<0.20	<0.20	<0.20	<0.24	<0.20	<0.20	<0.22	<0.20
Vanadium	mg/kg	8.80	6.80	2.01	5.28	4.59	12.9	1.83	2.20	7.19	2.42	6.46	2.06	4.60	1.81
Zinc	mg/kg	51.5 ⁱ	8.79	454 ^{bi}	10.3	106 ⁱ	25.4	3.47	9.33	10.2	4.72	8.58	5.95	5.86	5.89
Miscellaneous															
Total solids	%	90	82	94	89	94	80	84	88	89	74	88	96	84	85

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.6-OB236 7 - 8 05/25/12	SB-A5.6-OB236 17 - 18 05/25/12	SB-A5.6-OC213 1 - 2 05/29/12	SB-A5.6-OC213 8 - 9 05/29/12	SB-A5.6-OC213 18 - 19 05/29/12	SB-A5.6-OC221 0.5 - 1 05/29/12	SB-A5.6-OC221 7 - 8 05/29/12	SB-A5.6-OC221 18 - 19 05/29/12	SB-A5.6-OC221 1 - 2 05/29/12	SB-A5.6-OG217 18 - 19 05/29/12	SB-A5.6-OG217 18 - 19 05/29/12	SB-A5.7-LX268 1 - 2 11/06/12	SB-A5.7-LX268 6 - 7 11/06/12	SB-A5.7-LX268 16 - 17 11/06/12	SB-A5.7-LX268 24 - 25 11/06/12
	Units															
Volatile Organics																
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
1,2-Dichlorobenzene	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
1,4-Dichlorobenzene	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
2-Hexanone	ug/kg	<710	<700	<750	<960	<750	<730	<770	<920	<830	<780		NA	NA	NA	NA
Acetone	ug/kg	<1,800	<1,800	<1,900	<2,400	<1,900	<1,800	<1,900	<2,300	2,700	4,600		NA	NA	NA	NA
Bromodichloromethane	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
Bromoform	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
Carbon disulfide	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
Carbon tetrachloride	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
Chlorobenzene	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
Chloroform (Trichloromethane)	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
Chloromethane (Methyl chloride)	ug/kg	<180	<180	<190	<240	<190	<180	<190	<230	<210	<190		NA	NA	NA	NA
cis-1,3-Dichloropropene	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
Methylene chloride	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
Styrene	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
trans-1,3-Dichloropropene	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
1,4-Dioxane	ug/kg	<710	<700	<750	<960	<750	<730	<770	<920	<830	<780		NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	<71	<70	<75	<96	<75	<73	46 J	<92	<83	<78		NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
1,1,2-Trichloroethane	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
1,1-Dichloroethane	ug/kg	<71	<70	<75	<96	<75	<73	58 J	<92	<83	<78		NA	NA	NA	NA
1,1-Dichloroethene	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
1,2-Dichloroethane	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
cis-1,2-Dichloroethene	ug/kg	<71	90	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
trans-1,2-Dichloroethene	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
Trichloroethene	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
Tetrachloroethene	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
Vinyl chloride	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
Chloroethane	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
Benzene	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
Ethylbenzene	ug/kg	<71	<70	<75	<96	<75	<73	2,400 ^{ab}	<92	<83	<78		NA	NA	NA	NA
Toluene	ug/kg	<71	<70	<75	<96	<75	<73	15 J	<92	<83	<78		NA	NA	NA	NA
o-Xylene	ug/kg	<71	<70	18 J	<96	<75	<73	600	<92	<83	<78		NA	NA	NA	NA
m&p-Xylene	ug/kg	<140	<140	<150	<190	<150	<150	4,800 ^b	<180	<170	<160		NA	NA	NA	NA
Xylene (total)	ug/kg	<211	<210	18 J	<286	<225	<223	5,400 ^b	<272	<253	<238		NA	NA	NA	NA
Methyl tert butyl ether (MTBE)	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<710	<700	<750	<960	<750	<730	<770	<920	<830	<780		NA	NA	NA	NA
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<710	<700	<750	<960	<750 J	<730	<770	<920 J	<830 J	<780 J		NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
1,2,4-Trimethylbenzene	ug/kg	<71	<70	<75	<96	<75	<73	2,200 ^{ab}	<92	<83	<78		NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	<71	<70	<75	<96	<75	<73	400	<92	<83	<78		NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
1,3-Dichlorobenzene	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
Cyclohexane	ug/kg	<71	<70	28 J	<96	<75	<73	210	<92	<83	<78		NA	NA	NA	NA
Methyl cyclohexane	ug/kg	<71	<70	58 J	<96	<75	<73	1,300	<92	<83	<78		NA	NA	NA	NA
Dibromochloromethane	ug/kg	<71	<70	<75	<96	<75	<73	<77	<92	<83	<78		NA	NA	NA	NA
Isopropyl benzene	ug/kg	<71	<70	<75	<96	<75	<73	360	<92	<83	<78		NA	NA	NA	NA
Naphthalene	ug/kg	<71	<70	<75	<96	<75	<73	110	<92	<83	<78		NA	NA	NA	NA

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.6-OB236 7 - 8 05/25/12	SB-A5.6-OB236 17 - 18 05/25/12	SB-A5.6-OC213 1 - 2 05/29/12	SB-A5.6-OC213 8 - 9 05/29/12	SB-A5.6-OC213 18 - 19 05/29/12	SB-A5.6-OC221 0.5 - 1 05/29/12	SB-A5.6-OC221 7 - 8 05/29/12	SB-A5.6-OC221 18 - 19 05/29/12	SB-A5.6-OG217 1 - 2 05/29/12	SB-A5.6-OG217 18 - 19 05/29/12	SB-A5.7-LX268 1 - 2 11/06/12	SB-A5.7-LX268 6 - 7 11/06/12	SB-A5.7-LX268 16 - 17 11/06/12	SB-A5.7-LX268 24 - 25 11/06/12
	Units														
Semivolatile Organics															
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
2,4-Dichlorophenol	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
2,4-Dimethylphenol	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
2,4-Dinitrophenol	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
2-Chloronaphthalene	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
2-Chlorophenol	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
2-Methylnaphthalene	ug/kg	<40	<40	50	<40	<40	<40	100	<40	<30	<40	NA	NA	NA	NA
2-Methylphenol	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
2-Nitroaniline	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
2-Nitrophenol	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
3&4-Methylphenol	ug/kg	<80	<70	<70	<80	<70	<70	<200	<70	<70	<70	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<30	<40	<40 J	<40	<100	<40	<30	<40	NA	NA	NA	NA
Naphthalene	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
3-Nitroaniline	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
4-Chloroaniline	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
4-Nitroaniline	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
4-Nitrophenol	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
Anthracene	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
Acenaphthene	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
Acenaphthylene	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
Acetophenone	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
Atrazine	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
Benzaldehyde	ug/kg	<40	<40	<30	<40	<40	<40	<800	<40	<30	<40	NA	NA	NA	NA
Benzo(a)anthracene	ug/kg	<40	<40	60	<40	<40 J	<40	<100	<40	50	<40	NA	NA	NA	NA
Benzo(a)pyrene	ug/kg	<40	<40	80	<40	<40	<40	<100	<40	50	<40	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/kg	<40	<40	190 J	<40	<40	60 lp	<100	<40	100 J	<40	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/kg	<40	<40	70	<40	<40	<40 J	<100	<40	40	<40	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/kg	<40	<40	200 J	<40	<40	70 J	<100	<40	100 J	<40	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<80	<70	<70	<80	<70 J	90	4,600	<70	<70	<70	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<30	<40	<40 J	<40	600	<40	<30	<40	NA	NA	NA	NA
Caprolactam	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
Carbazole	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
Chrysene	ug/kg	<40	<40	90	<40	<40 J	<40	<100	<40	50	<40	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/kg	<80	<70	<70	<80	<70	<70 J	<200	<70	<70	<70	NA	NA	NA	NA
Dibenzofuran	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
Diethyl phthalate	ug/kg	<80	<70	<70	<80	<70	<70	<200	<70	<70	<70	NA	NA	NA	NA
Dimethyl phthalate	ug/kg	<210 B	<110 B	<90 B	<60 B	<50 B	<100 B	<100	<60 B	<30 B	<100 B	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/kg	<80	<70	<70	<80	<70	130	<200	<70	<70	<70	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/kg	<80	<70	<70	<80	<70	<70 J	300	<70	<70	<70	NA	NA	NA	NA
Fluoranthene	ug/kg	<40	<40	80	<40	<40	50	<100	<40	90	<40	NA	NA	NA	NA
Fluorene	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
Hexachlorobenzene	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
Hexachlorobutadiene	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
Hexachloroethane	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	50	<40	<40	<40 J	<100	<40	40	<40	NA	NA	NA	NA
Isophorone	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
Nitrobenzene	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
Pentachlorophenol	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
Phenanthrene	ug/kg	<40	<40	60	<40	<40	40	<100	<40	50	<40	NA	NA	NA	NA
Phenol	ug/kg	<40	<40	<30	<40	<40	<40	<100	<40	<30	<40	NA	NA	NA	NA
Pyrene	ug/kg	<40	<40	90	<40	<40 J	50	<100	<40	80	<40	NA	NA	NA	NA

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.6-OB236 7 - 8 05/25/12	SB-A5.6-OB236 17 - 18 05/25/12	SB-A5.6-OC213 1 - 2 05/29/12	SB-A5.6-OC213 8 - 9 05/29/12	SB-A5.6-OC213 18 - 19 05/29/12	SB-A5.6-OC221 0.5 - 1 05/29/12	SB-A5.6-OC221 7 - 8 05/29/12	SB-A5.6-OC221 18 - 19 05/29/12	SB-A5.6-OG217 1 - 2 05/29/12	SB-A5.6-OG217 18 - 19 05/29/12	SB-A5.7-LX268 1 - 2 11/06/12	SB-A5.7-LX268 6 - 7 11/06/12	SB-A5.7-LX268 16 - 17 11/06/12	SB-A5.7-LX268 24 - 25 11/06/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	<0.21	<0.20	<0.20	<0.21	<0.20	1.60	0.35	<0.20	<0.20	<0.21	NA	NA	NA	NA
Arsenic	mg/kg	0.65	0.57	1.00	0.77	0.35	1.70	1.50	1.01	1.32	0.92	1.62	1.15	3.17	2.22
Barium	mg/kg	29.8	18.3	10.7	41.1	16.5	99.6 ⁱ	33.2	38.2	8.60	40.9	64.9	25.2	25.0	33.8
Beryllium	mg/kg	<0.21	<0.20	<0.20	0.37	<0.20	<0.20	<0.21	<0.20	<0.20	<0.21	NA	NA	NA	NA
Boron	mg/kg	<4.2	<4.0	<4.0	<4.2	<4.1	<4.0	<4.2	<4.1	<4.0	<4.2	NA	NA	NA	NA
Cadmium	mg/kg	0.20	<0.10	0.10	0.19	<0.10	0.75	0.23	0.11	<0.10	<0.10	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	1.93	2.36	2.00	4.35	2.59	5.19	3.27	3.43	1.66	4.15	NA	NA	NA	NA
Cobalt	mg/kg	1.58	1.86	1.51	3.83	2.32	11.4 ^{abi}	2.44	3.48	1.63	2.82	NA	NA	NA	NA
Copper	mg/kg	4.05	6.14	6.32	8.11	5.63	8.33	9.19	4.03	4.20	8.69	NA	NA	NA	NA
Lead	mg/kg	4.79	2.92	11.5	7.07	3.35	32.5 ⁱ	17.3	3.56	9.91	3.61	NA	NA	NA	NA
Manganese	mg/kg	347	165	102	406	216	262	211	220	109	189	430	227	262	252
Mercury	mg/kg	0.0236	0.0087	0.0189	0.0349	0.0094	0.0098	0.0125	0.0117	0.0078	0.0169	NA	NA	NA	NA
Nickel	mg/kg	2.90	6.12	4.30	5.47	6.51	6.91	5.13	7.64	4.89	7.85	NA	NA	NA	NA
Selenium	mg/kg	<0.21	<0.20	<0.20	<0.21	0.20	0.21	<0.21	0.30	0.27	0.27	NA	NA	NA	NA
Silver	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	2.12 ^{bi}	<0.10	<0.10	<0.10	<0.10	NA	NA	NA	NA
Thallium	mg/kg	<0.21	<0.20	<0.20	<0.21	<0.20	<0.20	<0.21	<0.20	<0.20	<0.21	NA	NA	NA	NA
Vanadium	mg/kg	6.66	4.63	2.43	12.3	5.08	3.77	6.18	6.26	2.76	8.45	NA	NA	NA	NA
Zinc	mg/kg	5.15	8.82	19.5	13.4	9.67	164 ⁱ	16.3	10.3	12.1	13.3	NA	NA	NA	NA
Miscellaneous															
Total solids	%	84	93	98	84	89	95	89	90	97	89	88	89	90	90

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.7-MC272 1 - 2 11/06/12	SB-A5.7-MC272 6.5 - 7.5 11/06/12	SB-A5.7-MC272 13 - 14 11/06/12	SB-A5.7-MC272 28 - 29 11/06/12	SB-A5.7-MF238 1 - 2 09/14/12	SB-A5.7-MF238 11 - 12 09/14/12	SB-A5.7-MF238 17 - 18 09/14/12	SB-A5.7-MF238 23 - 24 09/14/12	SB-A5.7-MF238 29 - 30 09/14/12	SB-A5.7-MH243 1 - 2 09/06/12	SB-A5.7-MH243 6 - 7 09/06/12	SB-A5.7-MH243 14 - 15 09/06/12	SB-A5.7-MH243 19 - 20 09/06/12	SB-A5.7-ML233 1 - 2 09/14/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
1,2-Dichlorobenzene	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
1,4-Dichlorobenzene	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
2-Hexanone	ug/kg	NA	NA	NA	NA	<570	<600	<620	<600	<620	<590	<590	<680	<580	<570
Acetone	ug/kg	NA	NA	NA	NA	<570	<600	<620	<600	<620	<590	<590	<680	<580	<570
Bromodichloromethane	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
Bromoform	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
Carbon disulfide	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
Carbon tetrachloride	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
Chlorobenzene	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
Chloroform (Trichloromethane)	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
Chloromethane (Methyl chloride)	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
cis-1,3-Dichloropropene	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
Methyl acetate	ug/kg	NA	NA	NA	NA	<570	<600	<620	<600	<620	<590	<590	<680	<580	<570
Methylene chloride	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
Styrene	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
trans-1,3-Dichloropropene	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
Trifluorotrichloroethane (Freon 113)	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
1,1,2,2-Tetrachloroethane	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
1,1,2-Trichloroethane	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
1,1-Dichloroethane	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
1,1-Dichloroethene	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
1,2-Dichloroethane	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
cis-1,2-Dichloroethene	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
trans-1,2-Dichloroethene	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
Trichloroethene	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
Tetrachloroethene	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
Vinyl chloride	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
Chloroethane	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
Benzene	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
Ethylbenzene	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
Toluene	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
o-Xylene	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
m&p-Xylene	ug/kg	NA	NA	NA	NA	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Xylene (total)	ug/kg	NA	NA	NA	NA	<160	<160	<160	<160	<160	<160	<160	<170	<160	<160
Methyl tert butyl ether (MTBE)	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	NA	NA	NA	NA	<570	<600	<620	<600	<620	<590	<590	<680	<580	<570
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	NA	NA	NA	NA	<570	<600	<620	<600	<620	<590	<590	<680	<580	<570
1,2,4-Trichlorobenzene	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
1,3-Dichlorobenzene	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
Cyclohexane	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
Methyl cyclohexane	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
Dibromochloromethane	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
Isopropyl benzene	ug/kg	NA	NA	NA	NA	<60	<60	<60	<60	<60	<60	<60	<70	<60	<60
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.7-MC272 1 - 2 11/06/12	SB-A5.7-MC272 6.5 - 7.5 11/06/12	SB-A5.7-MC272 13 - 14 11/06/12	SB-A5.7-MC272 28 - 29 11/06/12	SB-A5.7-MF238 1 - 2 09/14/12	SB-A5.7-MF238 11 - 12 09/14/12	SB-A5.7-MF238 17 - 18 09/14/12	SB-A5.7-MF238 23 - 24 09/14/12	SB-A5.7-MF238 29 - 30 09/14/12	SB-A5.7-MH243 1 - 2 09/06/12	SB-A5.7-MH243 6 - 7 09/06/12	SB-A5.7-MH243 14 - 15 09/06/12	SB-A5.7-MH243 19 - 20 09/06/12	SB-A5.7-ML233 1 - 2 09/14/12
	Units														
Semivolatile Organics															
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A5.7-MC272	SB-A5.7-MC272	SB-A5.7-MC272	SB-A5.7-MC272	SB-A5.7-MF238	SB-A5.7-MF238	SB-A5.7-MF238	SB-A5.7-MF238	SB-A5.7-MF238	SB-A5.7-MF238	SB-A5.7-MH243	SB-A5.7-MH243	SB-A5.7-MH243	SB-A5.7-MH243	SB-A5.7-ML233
		1 - 2	6.5 - 7.5	13 - 14	28 - 29	1 - 2	11 - 12	17 - 18	23 - 24	29 - 30	1 - 2	6 - 7	14 - 15	19 - 20	1 - 2	
		11/06/12	11/06/12	11/06/12	11/06/12	09/14/12	09/14/12	09/14/12	09/14/12	09/14/12	09/06/12	09/06/12	09/06/12	09/06/12	09/14/12	
PCBs																
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	1.22	0.62	3.57	3.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	104 ¹	29.9	37.4	8.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	91.4	119	245	202	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																
Total solids	%	83	84	91	85	94	90	91	91	91	90	90	86	92		94

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.7-ML233 7 - 8 09/14/12	SB-A5.7-ML233 13 - 14 09/14/12	SB-A5.7-ML233 20 - 21 09/14/12	SB-A5.7-ML233 27 - 28 09/14/12	SB-A5.7-ML238 1 - 2 09/06/12	SB-A5.7-ML238 6.5 - 7.5 09/06/12	SB-A5.7-ML238 14 - 15 09/06/12	SB-A5.7-ML238 19 - 20 09/06/12	SB-A5.7-ML247 2 - 3 09/06/12	SB-A5.7-ML247 8 - 8.5 09/06/12	SB-A5.7-ML247 13 - 14 09/06/12	SB-A5.7-ML247 21 - 22 09/06/12	SB-A5.7-MQ238 5 - 6 09/14/12	SB-A5.7-MQ238 13 - 14 09/14/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
1,2-Dichlorobenzene	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
1,4-Dichlorobenzene	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
2-Hexanone	ug/kg	<640	<590	<690	<650	<630	<610	<630	<600	<650 [<600]	<690	<650	<630	<760 [<770]	<600
Acetone	ug/kg	<640	<590	<690	<650	<630	<610	<630	<600	<650 [<600]	<690	<650	<630	<760 [<770]	<600
Bromodichloromethane	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
Bromoform	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
Bromomethane (Methyl bromide)	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
Carbon disulfide	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
Carbon tetrachloride	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
Chlorobenzene	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
Chloroform (Trichloromethane)	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
Chloromethane (Methyl chloride)	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
cis-1,3-Dichloropropene	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
Dichlorodifluoromethane (CFC-12)	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
Methyl acetate	ug/kg	<640	<590	<690	<650	<630	<610	<630	<600	<650 [<600]	<690	<650	<630	<760 [<770]	<600
Methylene chloride	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
Styrene	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
trans-1,3-Dichloropropene	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
Trichlorofluoromethane (CFC-11)	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
Trifluorotrichloroethane (Freon 113)	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
1,1,2,2-Tetrachloroethane	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
1,1,2-Trichloroethane	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
1,1-Dichloroethane	ug/kg	<60	<60	<70	<70	<60	<60	230	1,400	<60 [<60]	<70	<60	<60	<80 [<80]	<60
1,1-Dichloroethene	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
1,2-Dichloroethane	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
cis-1,2-Dichloroethene	ug/kg	<60	<60	<70	<70	<60	<60	<60	800	<60 [<60]	<70	<60	<60	<80 [<80]	<60
trans-1,2-Dichloroethene	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
Trichloroethene	ug/kg	<60	<60	<70	<70	<60	<60	80	130 ^a	<60 [<60]	<70	<60	<60	<80 [<80]	<60
Tetrachloroethene	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
Vinyl chloride	ug/kg	<60	<60	<70	<70	<60	<60	170 ^a	110 ^a	<60 [<60]	<70	<60	<60	<80 [<80]	<60
Chloroethane	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
Benzene	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
Ethylbenzene	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
Toluene	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
o-Xylene	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
m&p-Xylene	ug/kg	<100	<100	<100	<100	<100	<100	<100	<100	<100 [<100]	<100	<100	<100	<200 [<200]	<100
Xylene (total)	ug/kg	<160	<160	<170	<170	<160	<160	<160	<160	<160 [<160]	<170	<160	<160	<280 [<280]	<160
Methyl tert butyl ether (MTBE)	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<640	<590	<690	<650	<630	<610	<630	<600	<650 [<600]	<690	<650	<630	<760 [<770]	<600
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<640	<590	<690	<650	<630	<610	<630	<600	<650 [<600]	<690	<650	<630	<760 [<770]	<600
1,2,4-Trichlorobenzene	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
1,3-Dichlorobenzene	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
Cyclohexane	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
Methyl cyclohexane	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
Dibromochloromethane	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
Isopropyl benzene	ug/kg	<60	<60	<70	<70	<60	<60	<60	<60	<60 [<60]	<70	<60	<60	<80 [<80]	<60
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.7-ML233 7 - 8 09/14/12	SB-A5.7-ML233 13 - 14 09/14/12	SB-A5.7-ML233 20 - 21 09/14/12	SB-A5.7-ML233 27 - 28 09/14/12	SB-A5.7-ML238 1 - 2 09/06/12	SB-A5.7-ML238 6.5 - 7.5 09/06/12	SB-A5.7-ML238 14 - 15 09/06/12	SB-A5.7-ML238 19 - 20 09/06/12	SB-A5.7-ML247 2 - 3 09/06/12	SB-A5.7-ML247 8 - 8.5 09/06/12	SB-A5.7-ML247 13 - 14 09/06/12	SB-A5.7-ML247 21 - 22 09/06/12	SB-A5.7-MQ238 5 - 6 09/14/12	SB-A5.7-MQ238 13 - 14 09/14/12
Semivolatile Organics															
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A5.7-ML233	SB-A5.7-ML233	SB-A5.7-ML233	SB-A5.7-ML233	SB-A5.7-ML238	SB-A5.7-ML238	SB-A5.7-ML238	SB-A5.7-ML238	SB-A5.7-ML247	SB-A5.7-ML247	SB-A5.7-ML247	SB-A5.7-ML247	SB-A5.7-MQ238	SB-A5.7-MQ238
		7 - 8	13 - 14	20 - 21	27 - 28	1 - 2	6.5 - 7.5	14 - 15	19 - 20	2 - 3	8 - 8.5	13 - 14	21 - 22	5 - 6	13 - 14
		09/14/12	09/14/12	09/14/12	09/14/12	09/06/12	09/06/12	09/06/12	09/06/12	09/06/12	09/06/12	09/06/12	09/06/12	09/14/12	09/14/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Total solids	%	89	91	87	91	87	88	88	90	88 [89]	83	90	90	81 [80]	91

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.7-MQ238 19 - 20 09/14/12	SB-A5.7-MQ238 25 - 26 09/14/12	SB-A5.7-MQ238 29 - 30 09/14/12	SB-A5.7-MQ243 12 - 13 09/06/12	SB-A5.7-MQ243 19 - 20 09/06/12	SB-A5.7-MT232 0.5 - 1 05/23/12	SB-A5.7-MT232 5 - 6 05/23/12	SB-A5.7-MT232 8 - 9 05/23/12	SB-A5.7-MT232 14 - 15 05/23/12	SB-A5.7-MT232 19 - 20 05/23/12	SB-A5.7-MU227 0.5 - 1.5 05/23/12	SB-A5.7-MU227 5 - 6 05/23/12	SB-A5.7-MU227 16 - 17 05/23/12	SB-A5.7-MU235 0.5 - 1 05/23/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
1,2-Dichlorobenzene	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
1,4-Dichlorobenzene	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
2-Hexanone	ug/kg	<670	<720	<620	<610	<620	<740	<950	<830	<750	<860	<860	<750	<720	<900
Acetone	ug/kg	<670	<720	<620	<610	<620	<1,800	<2,400	<2,100	<1,900	<2,200	<2,100	<1,900	<1,800	<2,200
Bromodichloromethane	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
Bromoform	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
Bromomethane (Methyl bromide)	ug/kg	<70	<70	<60	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
Carbon tetrachloride	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
Chlorobenzene	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
Chloroform (Trichloromethane)	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
Chloromethane (Methyl chloride)	ug/kg	<70	<70	<60	<60	<60	<180	<240	<210	<190	<220	<210	<190	<180	<220
cis-1,3-Dichloropropene	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
Dichlorodifluoromethane (CFC-12)	ug/kg	<70	<70	<60	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	<670	<720	<620	<610	<620	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
Styrene	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
trans-1,3-Dichloropropene	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
Trichlorofluoromethane (CFC-11)	ug/kg	<70	<70	<60	<60	<60	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	<740	<950	<830	<750	<860	<860	<750	<720	<900
1,1,1-Trichloroethane	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
1,1,2,2-Tetrachloroethane	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
1,1,2-Trichloroethane	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
1,1-Dichloroethane	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
1,1-Dichloroethene	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
1,2-Dichloroethane	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
cis-1,2-Dichloroethene	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
trans-1,2-Dichloroethene	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
Trichloroethene	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
Tetrachloroethene	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
Vinyl chloride	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
Chloroethane	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
Benzene	ug/kg	<70	<70	<60	<60	<60	18 J	25 J	30 J	130 ^a	<86	<86	<75	<72	<90
Ethylbenzene	ug/kg	<70	<70	<60	<60	<60	34 J	82 J	190	<75	<86	<86	<75	<72	<90
Toluene	ug/kg	<70	<70	<60	<60	<60	<74	180	170	<75	<86	<86	<75	<72	13 J
o-Xylene	ug/kg	<70	<70	<60	<60	<60	44 J	130	370	<75	<86	<86	<75	<72	20 J
m&p-Xylene	ug/kg	<100	<100	<100	<100	<100	<150	450	1,300 ^b	<150	<170	<170	<150	<140	<180
Xylene (total)	ug/kg	<170	<170	<160	<160	<160	44 J	580	1,670 ^b	<225	<256	<256	<225	<212	20 J
Methyl tert butyl ether (MTBE)	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<670	<720	<620	<610	<620	<740	<950	<830	<750	<860	<860	<750	<720	<900
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<670	<720	<620	<610	<620	<740	<950	<830	<750	<860	<860	<750	<720	<900
1,2,4-Trichlorobenzene	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	34 J	330	350	<75	<86	<86	<75	<72	<90
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	23 J	130	110	<75	<86	<86	<75	<72	<90
1,2-Dichloropropane	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
1,3-Dichlorobenzene	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
Cyclohexane	ug/kg	<70	<70	<60	<60	<60	72 J	<95	<83	<75	<86	<86	25 J	<72	<90
Methyl cyclohexane	ug/kg	<70	<70	<60	<60	<60	310	160	<83	<75	<86	<86	46 J	<72	<90
Dibromochloromethane	ug/kg	<70	<70	<60	<60	<60	<74	<95	<83	<75	<86	<86	<75	<72	<90
Isopropyl benzene	ug/kg	<70	<70	<60	<60	<60	28 J	37 J	59 J	<75	<86	<86	74 J	<72	<90
Naphthalene	ug/kg	NA	NA	NA	NA	NA	<74	<95	82 J	<75	<86	<86	60 J	<72	<90

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.7-MQ238 19 - 20 09/14/12	SB-A5.7-MQ238 25 - 26 09/14/12	SB-A5.7-MQ238 29 - 30 09/14/12	SB-A5.7-MQ243 12 - 13 09/06/12	SB-A5.7-MQ243 19 - 20 09/06/12	SB-A5.7-MT232 0.5 - 1 05/23/12	SB-A5.7-MT232 5 - 6 05/23/12	SB-A5.7-MT232 8 - 9 05/23/12	SB-A5.7-MT232 14 - 15 05/23/12	SB-A5.7-MT232 19 - 20 05/23/12	SB-A5.7-MU227 0.5 - 1.5 05/23/12	SB-A5.7-MU227 5 - 6 05/23/12	SB-A5.7-MU227 16 - 17 05/23/12	SB-A5.7-MU235 0.5 - 1 05/23/12
	Units														
Semivolatile Organics															
2-Methyl-4,6-dinitrophenol	ug/kg	NA	NA	NA	NA	NA	<40	R	<40	<40	<40	<500	<40	<40	<80
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	NA	NA	NA	NA	NA	<40 J	<80 J	<40 J	<40 J	<40 J	<500 J	<40 J	<40 J	<80 J
2,4,6-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	<40	R	<40	<40	<40	<500	<40	<40	<80
2,4-Dichlorophenol	ug/kg	NA	NA	NA	NA	NA	<40	R	<40	<40	<40	<500	<40	<40	<80
2,4,5-Trichlorophenol	ug/kg	NA	NA	NA	NA	NA	<40	R	<40	<40	<40	<500	<40	<40	<80
2,4-Dimethylphenol	ug/kg	NA	NA	NA	NA	NA	<40	R	<40	<40	<40	<500	<40	<40	<80
2,4-Dinitrophenol	ug/kg	NA	NA	NA	NA	NA	<40	R	<40	<40	<40	<500	<40	<40	<80
2,4-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
2,6-Dinitrotoluene	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
2-Chloronaphthalene	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
2-Chlorophenol	ug/kg	NA	NA	NA	NA	NA	<40	R	<40	<40	<40	<500	<40	<40	<80
2-Methylnaphthalene	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
2-Methylphenol	ug/kg	NA	NA	NA	NA	NA	<40	R	<40	<40	<40	<500	<40	<40	<80
2-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
2-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	<40	R	<40	<40	<40	<500	<40	<40	<80
3&4-Methylphenol	ug/kg	NA	NA	NA	NA	NA	<80	R	<80	<80	<70	<1,000	<70	<70	<200
3,3'-Dichlorobenzidine	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
Naphthalene	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
3-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
4-Bromophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
4-Chloro-3-methylphenol	ug/kg	NA	NA	NA	NA	NA	<40	R	<40	<40	<40	<500	<40	<40	<80
4-Chloroaniline	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
4-Chlorophenyl phenyl ether	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
4-Nitroaniline	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
4-Nitrophenol	ug/kg	NA	NA	NA	NA	NA	<40	R	<40	<40	<40	<500	<40	<40	<80
Anthracene	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
Acenaphthene	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
Acenaphthylene	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
Acetophenone	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
Atrazine	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
Benzaldehyde	ug/kg	NA	NA	NA	NA	NA	<110	<180	<110	<40	<40	<500	<40	<40	<80
Benzo(a)anthracene	ug/kg	NA	NA	NA	NA	NA	70	<80	<40	<40	<40	<500	<40	<40	<80
Benzo(a)pyrene	ug/kg	NA	NA	NA	NA	NA	50	<80	<40	<40	<40	<500 J	<40	<40	<80 J
Benzo(b)fluoranthene	ug/kg	NA	NA	NA	NA	NA	110 J	<80	<40	<40	<40	<500 J	<40	<40	<80 I
Benzo(g,h,i)perylene	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500 J	<40	<40	<80 I
Benzo(k)fluoranthene	ug/kg	NA	NA	NA	NA	NA	110 J	<80	<40	<40	<40	<500 J	<40	<40	<80 I
Biphenyl (1,1-Biphenyl)	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
bis(2-Chloroethoxy)methane	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
bis(2-Chloroethyl)ether	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	NA	NA	NA	NA	<80	<200	<80	<80	<70	<1,000	<70	<70	<200
Butyl benzylphthalate (BBP)	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
Caprolactam	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
Carbazole	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
Chrysene	ug/kg	NA	NA	NA	NA	NA	70	<80	<40	<40	<40	<500	<40	<40	<80
Dibenz(a,h)anthracene	ug/kg	NA	NA	NA	NA	NA	<80	<200	<80	<80	<70	<1,000 J	<70	<70	<200 J
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
Diethyl phthalate	ug/kg	NA	NA	NA	NA	NA	<80	<200	<80	<80	<70	<1,000	<70	<70	<200
Dimethyl phthalate	ug/kg	NA	NA	NA	NA	NA	<50 B	<180 B	<40	<140 B	<130 B	<500	<40	<40 B	<80
Di-n-butylphthalate (DBP)	ug/kg	NA	NA	NA	NA	NA	<80	<200	<80	<80	<70	<1,000	<70	<70	<200
Di-n-octyl phthalate (DnOP)	ug/kg	NA	NA	NA	NA	NA	<80	<200	<80	<80	<70	<1,000 J	<70	<70	<200 J
Fluoranthene	ug/kg	NA	NA	NA	NA	NA	130	<80	<40	<40	<40	<500	<40	<40	110
Fluorene	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
Hexachlorobenzene	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
Hexachlorobutadiene	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
Hexachlorocyclopentadiene	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
Hexachloroethane	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
Indeno(1,2,3-cd)pyrene	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500 J	<40	<40	<80 I
Isophorone	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
Nitrobenzene	ug/kg	NA	NA	NA	NA	NA	<40 J	<80 J	<40 J	<40 J	<40 J	<500 J	<40 J	<40 J	<80 J
N-Nitrosodi-n-propylamine	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
N-Nitrosodiphenylamine	ug/kg	NA	NA	NA	NA	NA	<40	<80	<40	<40	<40	<500	<40	<40	<80
Pentachlorophenol	ug/kg	NA	NA	NA	NA	NA	<40	R	<40	<40	<40	<500	<40	<40	<80
Phenanthrene	ug/kg	NA	NA	NA	NA	NA	70	<80	<40	<40	<40	<500	<40	<40	<80
Phenol	ug/kg	NA	NA	NA	NA	NA	<40	R	60	<40	<40	<500	<40	<40	<80
Pyrene	ug/kg	NA	NA	NA	NA	NA	120	<80	<40	<40	<40	<500	<40	<40	100

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.7-MQ238	SB-A5.7-MQ238	SB-A5.7-MQ238	SB-A5.7-MQ243	SB-A5.7-MQ243	SB-A5.7-MT232	SB-A5.7-MT232	SB-A5.7-MT232	SB-A5.7-MT232	SB-A5.7-MT232	SB-A5.7-MU227	SB-A5.7-MU227	SB-A5.7-MU227	SB-A5.7-MU235
		19 - 20	25 - 26	29 - 30	12 - 13	19 - 20	0.5 - 1	5 - 6	8 - 9	14 - 15	19 - 20	0.5 - 1.5	5 - 6	16 - 17	0.5 - 1
		09/14/12	09/14/12	09/14/12	09/06/12	09/06/12	05/23/12	05/23/12	05/23/12	05/23/12	05/23/12	05/23/12	05/23/12	05/23/12	05/23/12
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	NA	NA	NA	NA	NA	<0.20	1.36	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Arsenic	mg/kg	NA	NA	NA	NA	NA	1.66	0.84	0.91	1.57	1.83	3.78	1.03	1.95	2.24
Barium	mg/kg	NA	NA	NA	NA	NA	68.8	56.9	76.9 ⁱ	10.2	30.6	30.9	13.4	31.7	97.5 ⁱ
Beryllium	mg/kg	NA	NA	NA	NA	NA	0.32	0.70	0.35	<0.21	<0.20	0.24	<0.21	<0.20	0.35
Boron	mg/kg	NA	NA	NA	NA	NA	<4.2	10.6 ^a	<4.2	<4.3	<4.0	<4.0	<4.3	<4.0	<4.2
Cadmium	mg/kg	NA	NA	NA	NA	NA	0.25	0.71	0.43	<0.10	<0.10	0.64	<0.10	<0.10	0.39
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	5.70	9.32	5.56	1.72	3.66	4.97	2.86	4.42	4.86
Cobalt	mg/kg	NA	NA	NA	NA	NA	6.45	1.45	1.50	1.41	2.95	29.8 ^{abi}	2.55	3.28	6.54
Copper	mg/kg	NA	NA	NA	NA	NA	13.7	6.18	15.9	5.64	9.31	13.5	7.95	9.73	17.7
Lead	mg/kg	NA	NA	NA	NA	NA	30.3 ⁱ	14.4	7.30	2.33	4.40	69.0 ⁱ	6.94	4.37	82.4 ⁱ
Manganese	mg/kg	NA	NA	NA	NA	NA	340	24.4	19.0	149	238	201	350	233	255
Mercury	mg/kg	NA	NA	NA	NA	NA	0.0798	0.0192	0.0266	0.0089	0.0114	0.0145	0.0057	0.0103	0.0767
Nickel	mg/kg	NA	NA	NA	NA	NA	8.18	22.8 ⁱ	4.68	5.17	9.27	10.5	6.94	10.3	7.57
Selenium	mg/kg	NA	NA	NA	NA	NA	<0.21	0.77 ^{bi}	0.40	<0.21	<0.20	0.24	0.21	<0.20	0.22
Silver	mg/kg	NA	NA	NA	NA	NA	0.18	<0.11	<0.10	<0.10	<0.10	2.50 ^{bi}	<0.10	<0.10	0.26
Thallium	mg/kg	NA	NA	NA	NA	NA	<0.21	<0.22	<0.21	<0.21	<0.20	<0.20	<0.21	<0.20	<0.21
Vanadium	mg/kg	NA	NA	NA	NA	NA	10.8	9.40	15.1	3.09	5.91	11.6	4.97	6.77	8.12
Zinc	mg/kg	NA	NA	NA	NA	NA	26.3	18.9	18.7	10.2	14.3	31.3	9.52	13.6	30.6
Miscellaneous															
Total solids	%	87	82	90	89	90	86	44	83	86	91	97	89	89	84

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.7-MU235 6 - 7 05/23/12	SB-A5.7-MU235 19 - 20 05/23/12	SB-A5.7-MW223 1 - 2 05/24/12	SB-A5.7-MW223 6 - 7 05/24/12	SB-A5.7-MW223 11 - 12 05/24/12	SB-A5.7-MW223 17 - 18 05/24/12	SB-A5.7-MW238 0.5 - 1 05/23/12	SB-A5.7-MW238 19 - 20 05/24/12	SB-A5.7-MW238 21 - 22 05/24/12	SB-A5.7-MY227 0.5 - 1 05/24/12	SB-A5.7-MY227 4 - 5 05/24/12	SB-A5.7-MY227 10 - 11 05/24/12	SB-A5.7-MY227 16 - 17 05/24/12	SB-A5.7-MY231 0.5 - 1 05/24/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
1,2-Dichlorobenzene	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
1,4-Dichlorobenzene	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
2-Hexanone	ug/kg	<1,200	<750	<850	<780	<920	<810	<800	<740	<740	<740	<980	<1,000	<810	<910
Acetone	ug/kg	<2,900	<1,900	<2,100	<2,000	<2,300	<2,000	<2,000	<1,800	<1,900	<1,800	<2,500	<2,500	<2,000	<2,300
Bromodichloromethane	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
Bromoform	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
Carbon tetrachloride	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
Chlorobenzene	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
Chloroform (Trichloromethane)	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
Chloromethane (Methyl chloride)	ug/kg	<290	<190	<210	<200	<230	<200	<200	<180	<190	<180	<250	<250	<200	<230
cis-1,3-Dichloropropene	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
Styrene	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
trans-1,3-Dichloropropene	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
1,4-Dioxane	ug/kg	<1,200	<750	<850	<780	<920	<810	<800	<740	<740	<740	<980	<1,000	<810	<910
1,1,1-Trichloroethane	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
1,1,2,2-Tetrachloroethane	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
1,1,2-Trichloroethane	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
1,1-Dichloroethane	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
1,1-Dichloroethene	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
1,2-Dichloroethane	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
cis-1,2-Dichloroethene	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
trans-1,2-Dichloroethene	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
Trichloroethene	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
Tetrachloroethene	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
Vinyl chloride	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
Chloroethane	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
Benzene	ug/kg	<120	<75	<85	9.4 J	<92	<81	<80	<74	<74	<74	15 J	18 J	<81	<91
Ethylbenzene	ug/kg	<120	<75	<85	20 J	<92	<81	<80	<74	<74	<74	120	<100	<81	<91
Toluene	ug/kg	25 J	<75	<85	<78	<92	<81	13 J	<74	<74	11 J	55 J	<100	<81	<91
o-Xylene	ug/kg	28 J	<75	<85	20 J	<92	<81	21 J	<74	<74	18 J	160	<100	<81	<91
m&p-Xylene	ug/kg	<230	<150	<170	<160	<180	<160	<160	<150	<150	<150	600	<200	<160	<180
Xylene (total)	ug/kg	28 J	<225	<255	20 J	<272	<241	21 J	<224	<224	18 J	760	<300	<241	<271
Methyl tert butyl ether (MTBE)	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<1,200	<750	<850	<780	<920	<810	<800	<740	<740	<740	<980	<1,000	<810	<910
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<1,200	<750	<850	<780	<920	<810	<800	<740	<740	<740	<980	<1,000	<810	<910
1,2,4-Trichlorobenzene	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
1,2,4-Trimethylbenzene	ug/kg	190	<75	<85	54 J	<92	<81	<80	<74	<74	<74	460	<100	<81	<91
1,3,5-Trimethylbenzene	ug/kg	100 J	<75	<85	<78	<92	<81	<80	<74	<74	<74	180	<100	<81	<91
1,2-Dichloropropane	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
1,3-Dichlorobenzene	ug/kg	<120	<75	<85	<78	<92	<81	13 J	<74	<74	<74	<98	<100	<81	<91
Cyclohexane	ug/kg	<120	<75	<85	<78	48 J	<81	<80	<74	<74	<74	65 J	<100	<81	<91
Methyl cyclohexane	ug/kg	570	<75	<85	120	<92	<81	37 J	<74	<74	<74	240	<100	<81	<91
Dibromochloromethane	ug/kg	<120	<75	<85	<78	<92	<81	<80	<74	<74	<74	<98	<100	<81	<91
Isopropyl benzene	ug/kg	<120	<75	<85	38 J	<92	<81	<80	<74	<74	<74	61 J	<100	<81	<91
Naphthalene	ug/kg	<120	<75	<85	320	72 J	<81	97	<74	<74	<74	170	<100	<81	<91

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.7-MU235 6 - 7 05/23/12	SB-A5.7-MU235 19 - 20 05/23/12	SB-A5.7-MW223 1 - 2 05/24/12	SB-A5.7-MW223 6 - 7 05/24/12	SB-A5.7-MW223 11 - 12 05/24/12	SB-A5.7-MW223 17 - 18 05/24/12	SB-A5.7-MW238 0.5 - 1 05/23/12	SB-A5.7-MW238 19 - 20 05/24/12	SB-A5.7-MW238 21 - 22 05/24/12	SB-A5.7-MY227 0.5 - 1 05/24/12	SB-A5.7-MY227 4 - 5 05/24/12	SB-A5.7-MY227 10 - 11 05/24/12	SB-A5.7-MY227 16 - 17 05/24/12	SB-A5.7-MY231 0.5 - 1 05/24/12
	Units														
Semivolatile Organics															
2-Methyl-4,6-dinitrophenol	ug/kg	R	<40	<500 X	<40	<40	<40	<600	<40	<40	<500 X	R	<40	<40	<500
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	<70 J	<40 J	<500	<40	<40	<40	<600 J	<40	<40	<500	<200	<40	<40	<500
2,4,6-Trichlorophenol	ug/kg	R	<40	<500 X	<40	<40	<40	<600	<40	<40	<500	R	<40	<40	<500
2,4-Dichlorophenol	ug/kg	R	<40 J	<500	<40	<40	<40	<600 J	<40 J	<40 J	<500	R	<40	<40	<500
2,4,5-Trichlorophenol	ug/kg	R	<40	<500 X	<40	<40	<40	<600	<40	<40	<500	R	<40	<40	<500
2,4-Dimethylphenol	ug/kg	R	<40	<500	<40	<40	<40	<600	<40	<40	<500	R	<40	<40	<500
2,4-Dinitrophenol	ug/kg	R	<40	<500 X	<40	<40	<40	<600	<40	<40	<500 X	R	<40	<40 J	<500
2,4-Dinitrotoluene	ug/kg	<70	<40	<500	<40	<40	<40	<600	<40	<40	<500 X	<200	<40	<40	<500
2,6-Dinitrotoluene	ug/kg	<70	<40	<500 X	<40	<40	<40	<600	<40	<40	<500 X	<200	<40	<40	<500
2-Chloronaphthalene	ug/kg	<70	<40	<500 X	<40	<40	<40	<600	<40	<40	<500	<200	<40	<40	<500
2-Chlorophenol	ug/kg	R	<40	<500 X	<40	<40	<40	<600	<40	<40	<500	R	<40	<40 J	<500
2-Methylnaphthalene	ug/kg	<70	<40	<500 X	<40	<40	<40	<600	<40	<40	<500	<200	<40	<40	<500
2-Methylphenol	ug/kg	NA	<40	<500 X	<40	<40	<40	<600	<40	<40	<500	R	<40	<40	<500
2-Nitroaniline	ug/kg	<70	<40	<500 X	<40	<40	<40	<600	<40	<40	<500	<200	<40	<40	<500
2-Nitrophenol	ug/kg	R	<40 J	<500 X	<40	<40	<40	<600 J	<40 J	<40 J	<500	R	<40	<40	<500
3&4-Methylphenol	ug/kg	R	<80	<1,000	<80	<70	<70	<1,000	<70	<70	<1,000 X	R	<80	<70	<1,000
3,3'-Dichlorobenzidine	ug/kg	<70	<40	<500 X	<40	<40	<40	<600 J	<40	<40	<500	<200	<40	<40	<500
Naphthalene	ug/kg	<70	<40	<500 X	70	40	<40	<600	<40	<40	<500	300	<40	<40 J	<500
3-Nitroaniline	ug/kg	<70	<40	<500 X	<40	<40	<40	<600	<40	<40	<500	<200	<40	<40	<500
4-Bromophenyl phenyl ether	ug/kg	<100 S	<40	<500	<40	<40	<40	<600	<40	<40	<500	<200	<40	<40	<500
4-Chloro-3-methylphenol	ug/kg	R	<40	<500 X	<40	<40	<40	<600	<40	<40	<500 X	R	<40	<40	<500
4-Chloroaniline	ug/kg	<70	<40	<500	<40	<40	<40	<600	<40	<40	<500	<200	<40	<40	<500
4-Chlorophenyl phenyl ether	ug/kg	<70	<40	<500 X	<40	<40	<40	<600	<40	<40	<500 X	<200	<40	<40	<500
4-Nitroaniline	ug/kg	<70	<40	<500	<40	<40	<40	<600	<40	<40	<500	<200	<40	<40 J	<500
4-Nitrophenol	ug/kg	R	<40	<500	<40	<40	<40	<600	<40	<40	<500	R	<40	<40	<500
Anthracene	ug/kg	<100 S	<40	<500	<40	<40	<40	<600	<40	<40	<500	<200	<40	<40	<500
Acenaphthene	ug/kg	<70	<40	<500 X	<40	<40	<40	<600	<40	<40	<500 X	<200	<40	<40	<500
Acenaphthylene	ug/kg	<70	<40	<500	<40	<40	<40	<600	<40	<40	<500 X	<200	<40	<40	<500
Acetophenone	ug/kg	NA	<40	<500 X	<40	<40	<40	<600	<40	<40	<500	<200	<40	<40 J	<500
Atrazine	ug/kg	<100 S	<40	<500	<40	<40	<40	<600	<40	<40	<500 X	<200	<40	<40	<500
Benzaldehyde	ug/kg	<100 S	<40	<500	<40	<40	<40	<600	<40	<40	<500	1,400 S	<40	<40 J	<500
Benzo(a)anthracene	ug/kg	<70	<40	<500 X	<40	<40	<40	<600 J	<40	<40	<500 X	<200	<40	<40	<500
Benzo(a)pyrene	ug/kg	<70	<40	500 XI	<40	<40	<40	<600 J	<40	<40	<500 XI	<200	<40	<40	<500 J
Benzo(b)fluoranthene	ug/kg	<70	<40	1,000 J	<40	<40	<40	<600 J	<40	<40	900 XI	<200	<40	<40	<500 J
Benzo(g,h,i)perylene	ug/kg	<70	<40	R	<40	<40	<40	<600 J	<40	<40	<500 XI	<200	<40	<40	<500 J
Benzo(k)fluoranthene	ug/kg	<70	<40	1,000 J	<40	<40	<40	<600 J	<40	<40	1,000 IX	<200	<40	<40	<500 J
Biphenyl (1,1-Biphenyl)	ug/kg	<70	<40	<500 X	<40	<40	<40	<600	<40	<40	<500	<200	<40	<40	<500
bis(2-Chloroethoxy)methane	ug/kg	<70	<40 J	<500	<40	<40	<40	<600 J	<40 J	<40 J	<500	<200	<40	<40 J	<500
bis(2-Chloroethyl)ether	ug/kg	NA	<40 J	<500	<40	<40	<40	<600 J	<40 J	<40 J	<500	<200	<40	<40 J	<500
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<100	<80	<1,000	360	<70	<70	<1,000 J	<70	<70	<1,000	<500	<80	<70	<1,000
Butyl benzylphthalate (BBP)	ug/kg	<70	<40	<500 X	<40	<40	<40	<600 J	<40	<40	<500	<200	<40	<40	<500
Caprolactam	ug/kg	<70	<40	<500	<40	<40	<40	<600	<40	<40	<500	<200	<40	<40	<500
Carbazole	ug/kg	<100 S	<40	<500 X	<40	<40	<40	<600	<40	<40	<500	<200	<40	<40	<500
Chrysene	ug/kg	<70	<40	<500	<40	<40	<40	<600 J	<40	<40	<500 X	<200	<40	<40	<500
Dibenz(a,h)anthracene	ug/kg	<100	<80	R	<80	<70	<70	<1,000 XI	<70	<70	<1,000 XI	<500	<80	<70	<1,000 J
Dibenzofuran	ug/kg	<70	<40	<500	<40	<40	<40	<600	<40	<40	<500 X	<200	<40	<40	<500
Diethyl phthalate	ug/kg	<100	<80	<1,000 X	<80	<70	<70	<1,000	<70	<70	<1,000	<500	<80	<70	<1,000
Dimethyl phthalate	ug/kg	<70	<110 B	<500	330 B	<160 B	210 B	<600	<50 B	<80 B	<500 X	1,300 B	370 B	<100 BJ	<500
Di-n-butylphthalate (DBP)	ug/kg	<300 S	<80	<1,000 X	<80	<70	<70	<1,000	<70	<70	<1,000	<500	<80	<70	<1,000
Di-n-octyl phthalate (DnOP)	ug/kg	<100	<80	R	<80	<70	<70	<1,000 J	<70	<70	<1,000 J	<500	<80	<70	<1,000 J
Fluoranthene	ug/kg	200 S	<40	800 X	<40	<40	<40	<600	<40	<40	600 X	<200	<40	<40	<500
Fluorene	ug/kg	<70	<40	<500 X	<40	<40	<40	<600	<40	<40	<500	<200	<40	<40	<500
Hexachlorobenzene	ug/kg	<100 S	<40	<500	<40	<40	<40	<600	<40	<40	<500	<200	<40	<40	<500
Hexachlorobutadiene	ug/kg	<70	<40	<500 X	<40	<40	<40	<600	<40	<40	<500	<200	<40	<40 J	<500
Hexachlorocyclopentadiene	ug/kg	<70	<40	<500 X	<40	<40	<40	<600	<40	<40	<500 X	<200	<40	<40 J	<500
Hexachloroethane	ug/kg	NA	<40	<500 X	<40	<40	<40	<600	<40	<40	<500 X	<200	<40	<40 J	<500
Indeno(1,2,3-cd)pyrene	ug/kg	<70	<40	R	<40	<40	<40	<600 J	<40	<40	<500 XI	<200	<40	<40	<500 J
Isophorone	ug/kg	<70	<40 J	<500 X	<40	<40	<40	<600 J	<40 J	<40 J	<500 X	<200	<40	<40	<500
Nitrobenzene	ug/kg	<70 J	<40 J	<500 X	<40	<40	<40	<600 J	<40 J	<40 J	<500	<200	<40	<40 J	<500
N-Nitrosodi-n-propylamine	ug/kg	NA	<40	<500 X	<40	<40	<40	<600	<40	<40	<500 X	<200	<40	<40	<500
N-Nitrosodiphenylamine	ug/kg	<100 S	<40	<500 X	<40	<40	<40	<600	<40	<40	<500	<200	<40	<40	<500
Pentachlorophenol	ug/kg	R	<40	<500 X	<40	<40	<40	<600	<40	<40	<500	R	<40	<40	<500
Phenanthrene	ug/kg	200 S	<40	<500 X	<40	<40	<40	600 X	<40	<40	<500	<200	<40	<40	<500
Phenol	ug/kg	R	<40	<500	<40	<40	<40	<600	<40	<40	<500	R	<40	<40	<500
Pyrene	ug/kg	<70	<40	1,200 X	<40	<40	<40	700 J	<40	<40	800 X	<200	<40	<40	<500

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A5.7-MU235	SB-A5.7-MU235	SB-A5.7-MW223	SB-A5.7-MW223	SB-A5.7-MW223	SB-A5.7-MW223	SB-A5.7-MW238	SB-A5.7-MW238	SB-A5.7-MW238	SB-A5.7-MW238	SB-A5.7-MY227	SB-A5.7-MY227	SB-A5.7-MY227	SB-A5.7-MY231
		6 - 7	19 - 20	1 - 2	6 - 7	11 - 12	17 - 18	0.5 - 1	19 - 20	21 - 22	0.5 - 1	4 - 5	10 - 11	16 - 17	0.5 - 1
		05/23/12	05/23/12	05/24/12	05/24/12	05/24/12	05/24/12	05/23/12	05/24/12	05/24/12	05/24/12	05/24/12	05/24/12	05/24/12	05/24/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	6.92 ^a	<0.20	<0.20	<0.21	<0.20	<0.21	0.26	<0.20	<0.20	0.54	5.68 ^a	<0.20	<0.21	0.21
Arsenic	mg/kg	0.79	1.90	2.17	1.04	0.96	1.49	1.82	2.63	1.87	2.56	20.5 ^{abi}	1.00	2.44	1.82
Barium	mg/kg	160 ⁱ	33.3	9.66	46.6	31.5	32.5	104 ⁱ	5.33	26.3	40.7	391 ⁱ	24.5	32.5	26.7
Beryllium	mg/kg	0.62	<0.21	<0.20	0.26	0.23	<0.21	<0.21	<0.20	<0.20	<0.20	1.34	<0.20	<0.21	<0.20
Boron	mg/kg	6.16	<4.2	<4.0	<4.3	<4.1	<4.2	<4.3	4.89	<4.1	<4.0	64.8 ^a	<4.0	<4.2	<4.1
Cadmium	mg/kg	3.90 ⁱ	<0.10	0.35	0.72	<0.10	<0.10	0.55	<0.10	<0.10	0.52	3.68 ⁱ	0.10	<0.10	0.23
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	9.07	4.24	2.63	3.86	3.33	3.00	5.43	1.70	2.91	9.68	19.2 ⁱ	3.10	2.77	6.71
Cobalt	mg/kg	1.59	3.24	157 ^{abi}	1.59	2.33	2.78	10.4 ^{abi}	1.52	2.90	23.8 ^{abi}	4.29	2.88	2.98	25.2 ^{abi}
Copper	mg/kg	6.66	10.0	9.02	8.92	14.8	9.71	18.4	7.25	8.97	23.8	23.6	10.2	10.4	10.9
Lead	mg/kg	34.3 ⁱ	4.82	8.12	45.1 ⁱ	5.82	4.29	180 ⁱ	3.35	4.27	151 ⁱ	153 ⁱ	4.30	4.97	65.0 ⁱ
Manganese	mg/kg	25.3	246	257	62.5	233	253	174	283	213	182	295	234	242	131
Mercury	mg/kg	0.0146	0.0107	0.0075	0.0310	0.0130	0.0116	0.0619	<0.0054	0.0096	0.148 ^{bi}	<0.017	0.0076	0.0068	0.0470
Nickel	mg/kg	20.1 ⁱ	9.88	8.21	3.23	7.24	8.99	7.69	8.61	8.83	12.6	17.8	8.91	8.71	6.67
Selenium	mg/kg	1.49 ^{bi}	0.34	<0.20	<0.21	0.25	0.21	<0.21	0.20	0.25	0.28	1.23 ^{bi}	0.30	0.35	<0.20
Silver	mg/kg	<0.11	<0.10	12.7 ^{abi}	<0.10	<0.10	<0.10	1.09 ^{bi}	<0.10	<0.10	1.90 ^{bi}	<0.15	<0.10	<0.10	2.01 ^{bi}
Thallium	mg/kg	<0.22	<0.21	<0.20	<0.21	<0.20	<0.21	<0.21	<0.20	<0.20	<0.20	<0.31	<0.20	<0.21	<0.20
Vanadium	mg/kg	12.6	6.33	9.64	3.24	10.3	5.33	6.74	2.34	4.82	11.5	45.4	5.67	6.12	6.52
Zinc	mg/kg	61.5 ⁱ	13.6	13.0	41.8	14.2	11.8	62.3 ⁱ	4.83	13.2	217 ⁱ	279 ^{bi}	14.1	14.6	23.0
Miscellaneous															
Total solids	%	50	88	93	83	91	90	87	92	90	93	28	87	89	93

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.7-MY231 5 - 6 05/24/12	SB-A5.7-MY231 16 - 17 05/24/12	SB-A5.7-MY235 0.5 - 1.5 05/24/12	SB-A5.7-MY235 5 - 6 05/24/12	SB-A5.7-MY235 11 - 12 05/24/12	SB-A5.7-MY235 19 - 20 05/24/12	SB-A5.8-MQ299 3 - 4 09/21/12	SB-A5.8-NM321 1 - 2 09/21/12	SB-A5.8-NM321 5 - 6 09/21/12	SB-A5.8-NM321 16 - 17 09/21/12	SB-A6-SJ190 1.5 - 2.5 05/17/12	SB-A6-SJ190 11.5 - 12.5 05/17/12	SB-A6-SJ190 21.5 - 22.5 05/17/12	SB-A6-SL188 1 - 2 05/16/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
1,2-Dichlorobenzene	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
1,4-Dichlorobenzene	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
2-Hexanone	ug/kg	<920	<740	<800	<960	<800	<780	NA	NA	NA	NA	<820	<830	<810	<860
Acetone	ug/kg	<2,300	<1,800	<2,000	<2,400	<2,000	<1,900	NA	NA	NA	NA	<2,000 J	<2,100 J	<3,000 BJ	<4,100 BJ
Bromodichloromethane	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
Bromoform	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
Carbon tetrachloride	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
Chlorobenzene	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
Chloroform (Trichloromethane)	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
Chloromethane (Methyl chloride)	ug/kg	<230	<180	<200	<240	<200	<190	NA	NA	NA	NA	<200	<210	<200	<220
cis-1,3-Dichloropropene	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
Styrene	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
trans-1,3-Dichloropropene	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
1,4-Dioxane	ug/kg	<920	<740	<800	<960	<800	<780	NA	NA	NA	NA	<820	<830	<810	<860
1,1,1-Trichloroethane	ug/kg	27 J	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
1,1,2,2-Tetrachloroethane	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
1,1,2-Trichloroethane	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
1,1-Dichloroethane	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
1,1-Dichloroethene	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
1,2-Dichloroethane	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
cis-1,2-Dichloroethene	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
trans-1,2-Dichloroethene	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
Trichloroethene	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
Tetrachloroethene	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
Vinyl chloride	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
Chloroethane	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
Benzene	ug/kg	12 J	<74	12 J	18 J	68 J	13 J	NA	NA	NA	NA	<82	<83	<81	<86
Ethylbenzene	ug/kg	58 J	<74	<80	72 J	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
Toluene	ug/kg	60 J	<74	15 J	83 J	11 J	<78	NA	NA	NA	NA	<82	<83	<81	<86
o-Xylene	ug/kg	99	<74	15 J	99	22 J	<78	NA	NA	NA	NA	<82	<83	<81	<86
m&p-Xylene	ug/kg	310	<150	<160	400	<160	<160	NA	NA	NA	NA	<160	<170	<160	<170
Xylene (total)	ug/kg	409	<224	15 J	499	22 J	<238	NA	NA	NA	NA	<242	<253	<241	<256
Methyl tert butyl ether (MTBE)	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<920	<740	<800	<960	<800	<780	NA	NA	NA	NA	<820	<830	<810	<860
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<920	<740	<800	<960	<800	<780	NA	NA	NA	NA	<820	<830	<810	<860
1,2,4-Trichlorobenzene	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
1,2,4-Trimethylbenzene	ug/kg	320	<74	<80	320	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
1,3,5-Trimethylbenzene	ug/kg	210	<74	<80	120	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
1,2-Dichloropropane	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
1,3-Dichlorobenzene	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
Cyclohexane	ug/kg	200	<74	37 J	150	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
Methyl cyclohexane	ug/kg	1,300	<74	45 J	310	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
Dibromochloromethane	ug/kg	<92	<74	<80	<96	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
Isopropyl benzene	ug/kg	<92	<74	<80	46 J	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86
Naphthalene	ug/kg	300	<74	61 J	500	<80	<78	NA	NA	NA	NA	<82	<83	<81	<86

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.7-MY231 5 - 6 05/24/12	SB-A5.7-MY231 16 - 17 05/24/12	SB-A5.7-MY235 0.5 - 1.5 05/24/12	SB-A5.7-MY235 5 - 6 05/24/12	SB-A5.7-MY235 11 - 12 05/24/12	SB-A5.7-MY235 19 - 20 05/24/12	SB-A5.8-MQ299 3 - 4 09/21/12	SB-A5.8-NM321 1 - 2 09/21/12	SB-A5.8-NM321 5 - 6 09/21/12	SB-A5.8-NM321 16 - 17 09/21/12	SB-A6-SJ190 1.5 - 2.5 05/17/12	SB-A6-SJ190 11.5 - 12.5 05/17/12	SB-A6-SJ190 21.5 - 22.5 05/17/12	SB-A6-SL188 1 - 2 05/16/12
	Units														
Semivolatile Organics															
2-Methyl-4,6-dinitrophenol	ug/kg	R	<40	<300	R	<40 J	<40	NA	NA	NA	NA	<40 J	<40 J	<30 J	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	<100	<40	<300	<60	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
2,4,6-Trichlorophenol	ug/kg	R	<40	<300	R	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
2,4-Dichlorophenol	ug/kg	R	<40	<300 J	R	<40 J	<40 J	NA	NA	NA	NA	<40	<40	<30	<40 J
2,4,5-Trichlorophenol	ug/kg	R	<40	<300	R	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
2,4-Dimethylphenol	ug/kg	R	<40	<300	R	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40 J
2,4-Dinitrophenol	ug/kg	R	<40	<300	R	<40	<40	NA	NA	NA	NA	<40 J	<40 J	<30 J	<40
2,4-Dinitrotoluene	ug/kg	<100	<40	<300	<60	<40	<40	NA	NA	NA	NA	<40	<40	<30	<40
2,6-Dinitrotoluene	ug/kg	<100	<40	<300	<60	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
2-Chloronaphthalene	ug/kg	<100	<40	<300	<60	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
2-Chlorophenol	ug/kg	R	<40	<300	R	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
2-Methylnaphthalene	ug/kg	300	<40	<300	<60	<40	<40	NA	NA	NA	NA	<40	<40	<30	<40
2-Methylphenol	ug/kg	R	<40	<300	R	<40	<40	NA	NA	NA	NA	<40	<40	<30	<40
2-Nitroaniline	ug/kg	<100	<40	<300	<60	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
2-Nitrophenol	ug/kg	R	<40	<300 J	R	<40 J	<40 J	NA	NA	NA	NA	<40	<40	<30	<40 J
3&4-Methylphenol	ug/kg	R	<70	<700	R	<80	<70	NA	NA	NA	NA	<70	<70	<70	<80
3,3'-Dichlorobenzidine	ug/kg	<100	<40	<300	<60	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
Naphthalene	ug/kg	200	<40	<300	120	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
3-Nitroaniline	ug/kg	<100	<40	<300	<60	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
4-Bromophenyl phenyl ether	ug/kg	<100	<40	<300	<60	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
4-Chloro-3-methylphenol	ug/kg	R	<40	<300	R	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
4-Chloroaniline	ug/kg	<100	<40	<300	<60	<40	<40	NA	NA	NA	NA	<40	<40	<30	<40
4-Chlorophenyl phenyl ether	ug/kg	<100	<40	<300	<60	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
4-Nitroaniline	ug/kg	<100	<40	<300	<60	<40	<40	NA	NA	NA	NA	<40	<40	<30	<40
4-Nitrophenol	ug/kg	R	<40	<300	R	<40	<40	NA	NA	NA	NA	<40 J	<40 J	<30 J	<40
Anthracene	ug/kg	<100	<40	<300	110 S	<40	<40	NA	NA	NA	NA	<40 J	<40 J	<30 J	<40
Acenaphthene	ug/kg	<100	<40	<300	<60	<40	<40	NA	NA	NA	NA	<40	<40	<30	<40
Acenaphthylene	ug/kg	<100	<40	<300	70	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
Acetophenone	ug/kg	<100	<40	<300	<60	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
Atrazine	ug/kg	<100	<40	<300	<60	<40 J	<40	NA	NA	NA	NA	<40 J	<40 J	<30 J	<40
Benzaldehyde	ug/kg	<100	<40	<300	<120	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
Benzo(a)anthracene	ug/kg	<100	<40	1,100	490	<40 J	<40	NA	NA	NA	NA	50	<40	<30	<40
Benzo(a)pyrene	ug/kg	<100	<40	1,200 J	440	<40 J	<40	NA	NA	NA	NA	50 J	<40 J	<30 J	<40
Benzo(b)fluoranthene	ug/kg	<100	<40	2,600 J	770 J	<40	<40	NA	NA	NA	NA	110 J	<40 J	<30 J	<40
Benzo(g,h,i)perylene	ug/kg	<100	<40	400 J	170	<40 J	<40	NA	NA	NA	NA	<40 J	<40 J	<30 J	<40
Benzo(k)fluoranthene	ug/kg	<100	<40	2,600 J	780 J	<40 J	<40	NA	NA	NA	NA	120 J	<40	<30	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<100	<40	<300	<60	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
bis(2-Chloroethoxy)methane	ug/kg	<100	<40	<300 J	<60 J	<40 J	<40 J	NA	NA	NA	NA	<40	<40	<30	<40 J
bis(2-Chloroethyl)ether	ug/kg	<100	<40	<300 J	<60 J	<40 J	<40 J	NA	NA	NA	NA	<40	<40	<30	<40 J
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<300	<70	<700	<100	<80 J	<70	NA	NA	NA	NA	<70	<120 B	<70	<80
Butyl benzylphthalate (BBP)	ug/kg	<100	<40	<300	<60	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
Caprolactam	ug/kg	<100	<40	<300	<60	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
Carbazole	ug/kg	<100	<40	<300	<60	<40	<40	NA	NA	NA	NA	<40	<40	<30	<40
Chrysene	ug/kg	<100	<40	1,200	530	<40	<40	NA	NA	NA	NA	50	<40	<30	<40
Dibenz(a,h)anthracene	ug/kg	<300	<70	R	<100	<80 J	<70	NA	NA	NA	NA	<70	<70	<70	<80
Dibenzofuran	ug/kg	<100	<40	<300	<60	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
Diethyl phthalate	ug/kg	<300	<70	<700	<100	<80 J	<70	NA	NA	NA	NA	<70	<70	<70	<80
Dimethyl phthalate	ug/kg	<200 B	<150 B	<300	<180 B	<370 J	<40 B	NA	NA	NA	NA	<40 B	460 B	<380 B	<200 B
Di-n-butylphthalate (DBP)	ug/kg	<300	<70	<700	<100	<80 J	<70	NA	NA	NA	NA	<70	<70	<70	<80
Di-n-octyl phthalate (DnOP)	ug/kg	<300	<70	R	<100	<80 J	<70	NA	NA	NA	NA	<70	<70	<70	<80
Fluoranthene	ug/kg	<100	<40	1,600	990 S	<40 J	<40	NA	NA	NA	NA	90	<40	<30	<40
Fluorene	ug/kg	<100	<40	<300	<60	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
Hexachlorobenzene	ug/kg	<100	<40	<300	<60	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
Hexachlorobutadiene	ug/kg	<100	<40	<300	<60	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
Hexachlorocyclopentadiene	ug/kg	<100	<40	<300	<60	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
Hexachloroethane	ug/kg	<100	<40	<300	<60	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<100	<40	400 J	150	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
Isophorone	ug/kg	<100	<40	<300 J	<60 J	<40 J	<40 J	NA	NA	NA	NA	<40	<40	<30	<40
Nitrobenzene	ug/kg	<100	<40	<300 J	<60 J	<40 J	<40 J	NA	NA	NA	NA	<40	<40	<30	<40 J
N-Nitrosodi-n-propylamine	ug/kg	<100	<40	<300	<60	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
N-Nitrosodiphenylamine	ug/kg	<100	<40	<300	<60	<40	<40	NA	NA	NA	NA	<40 J	<40 J	<30 J	<40
Pentachlorophenol	ug/kg	R	<40	<300	R	<40	<40	NA	NA	NA	NA	<40 J	<40 J	<30 J	<40
Phenanthrene	ug/kg	<100	<40	<300	400 S	<40	<40	NA	NA	NA	NA	40 J	<40 J	<30 J	<40
Phenol	ug/kg	R	<40	<300	R	<40 J	<40	NA	NA	NA	NA	<40	<40	<30	<40
Pyrene	ug/kg	<100	<40	2,100	760	<40 J	<40	NA	NA	NA	NA	90	<40	<30	<40

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.7-MY231 5 - 6 05/24/12	SB-A5.7-MY231 16 - 17 05/24/12	SB-A5.7-MY235 0.5 - 1.5 05/24/12	SB-A5.7-MY235 5 - 6 05/24/12	SB-A5.7-MY235 11 - 12 05/24/12	SB-A5.7-MY235 19 - 20 05/24/12	SB-A5.8-MQ299 3 - 4 09/21/12	SB-A5.8-NM321 1 - 2 09/21/12	SB-A5.8-NM321 5 - 6 09/21/12	SB-A5.8-NM321 16 - 17 09/21/12	SB-A6-SJ190 1.5 - 2.5 05/17/12	SB-A6-SJ190 11.5 - 12.5 05/17/12	SB-A6-SJ190 21.5 - 22.5 05/17/12	SB-A6-SL188 1 - 2 05/16/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	13.7 ^a	<0.20	0.24	9.53 ^a	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20	NA	NA	NA	NA
Arsenic	mg/kg	7.71 ^{abi}	0.93	2.22	5.54	1.13	1.77	0.83 [0.75]	2.43	3.50	1.92	NA	NA	NA	NA
Barium	mg/kg	1,340 ^{abi}	34.9	179 ⁱ	505 ⁱ	20.3	22.4	8.89 [6.74]	27.5	30.2	20.8	NA	NA	NA	NA
Beryllium	mg/kg	1.18	0.20	0.21	0.79	<0.20	<0.20	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/kg	12.3 ^a	<4.1	<4.1	16.2 ^a	<4.0	<4.0	<4.0 [<4]	<4.0	<4.0	<4.0	NA	NA	NA	NA
Cadmium	mg/kg	5.60 ^{bi}	0.10	0.59	10.5 ^{abi}	<0.10	<0.10	<0.10 [<0.1]	0.11	0.12	<0.10	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	20.7 ⁱ	3.47	7.77	17.1	3.29	3.14	1.50 [1.35]	4.86	5.46	3.55	NA	NA	NA	NA
Cobalt	mg/kg	3.15	2.86	9.46 ^{abi}	5.14	2.86	2.64	1.28 [1.59]	3.39	2.99	3.07	NA	NA	NA	NA
Copper	mg/kg	13.0	10.0	15.2	55.2 ⁱ	10.4	7.95	2.00 [2.48]	7.20	9.64	8.05	NA	NA	NA	NA
Lead	mg/kg	57.3 ⁱ	4.64	129 ⁱ	266 ⁱ	4.28	3.83	2.47 [2.26]	10.3	15.3	3.43	NA	NA	NA	NA
Manganese	mg/kg	88.1	243	187	220	241	211	112 [109]	235	303	219	NA	NA	NA	NA
Mercury	mg/kg	0.0235	0.0118	0.0312	0.0964	0.0079	0.0109	0.0065 [0.0075]	0.0362	0.1458 ^{bi}	0.0068	NA	NA	NA	NA
Nickel	mg/kg	25.8 ⁱ	8.76	7.98	16.0	8.91	7.97	3.51 [3.97]	8.41	8.76	10.4	NA	NA	NA	NA
Selenium	mg/kg	1.35 ^{bi}	0.35	<0.20	0.86 ^{bi}	0.40	0.33	<0.20 [<0.2]	<0.20	<0.20	<0.20	NA	NA	NA	NA
Silver	mg/kg	<0.11	<0.10	1.13 ^{bi}	0.14	<0.10	<0.10	<0.10 [<0.1]	<0.10	<0.10	<0.10	NA	NA	NA	NA
Thallium	mg/kg	0.29	<0.20	<0.20	<0.22	<0.20	<0.20	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	13.7	5.67	8.17	17.3	6.07	5.25	2.18 [2.02]	6.95	7.02	5.34	NA	NA	NA	NA
Zinc	mg/kg	55.3 ⁱ	14.1	183 ⁱ	4,220 ^{abi}	13.3	11.7	4.03 [5.08]	18.9	27.1	12.6	NA	NA	NA	NA
Miscellaneous															
Total solids	%	45	89	91	52	87	90	93 [93]	92	89	91	92	91	97	88

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A6-SL188 11 - 12 05/17/12	SB-A6-SL188 21 - 22 05/17/12	SB-A6-SL192 1 - 2 05/16/12	SB-A6-SL192 9 - 10 05/16/12	SB-A6-SL192 19 - 20 05/16/12	SB-A6-SL192 29 - 30 05/16/12	SB-A6-SN190 1 - 2 05/16/12	SB-A6-SN190 11 - 12 05/16/12	SB-A6-SN190 21 - 22 05/16/12	SB-A6-SN190 1 - 2 06/04/12	SB-A7-SO214 5 - 6 06/04/12	SB-A7-SO214 13 - 14 06/04/12	SB-A7-SO214 19 - 20 06/04/12	SB-A7-SP219 1 - 2 06/05/12	SB-A7-SP219 4 - 5 06/05/12	SB-A7-SP219 12 - 13 06/05/12
Units																	
Volatile Organics																	
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
1,2-Dichlorobenzene	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
1,4-Dichlorobenzene	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
2-Hexanone	ug/kg	<830	<840	<830	<820	<880	<790	<880	<830	<800	<570	<630	<770	<630	<650	<610 [<640]	<690
Acetone	ug/kg	<2,900 BJ	<2,300 BJ	<2,100	<2,100	<2,200	<2,000	<2,500 B	<2,200 B	<3,000 B	<570	<630	<770	<630	<650	<610 [<640]	<690
Bromodichloromethane	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
Bromoform	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<80	<60	<60	<60 [<60]	<70
Carbon disulfide	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
Carbon tetrachloride	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
Chlorobenzene	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
Chloroform (Trichloromethane)	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
Chloromethane (Methyl chloride)	ug/kg	<210	<210	<210	<210	<220	<200	<220	<210	<200	<60	<60	<80	<60	<60	<60 [<60]	<70
cis-1,3-Dichloropropene	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<80	<60	<60	<60 [<60]	<70
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<570	<630	<770	<630	<650	<610 [<640]	<690
Methylene chloride	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
Styrene	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
trans-1,3-Dichloropropene	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60	<60	<80	<60	<60	<60 [<60]	<70
Trifluorotrichloroethane (Freon 113)	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
1,4-Dioxane	ug/kg	<830	<840	<830	<820	<880	<790	<880	<830	<800	<6,000	<6,000	<8,000	<6,000	<6,000	<6,000 [<6,000]	<7,000
1,1,1-Trichloroethane	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
1,1,2,2-Tetrachloroethane	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
1,1,2-Trichloroethane	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
1,1-Dichloroethane	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
1,1-Dichloroethene	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
1,2-Dichloroethane	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
cis-1,2-Dichloroethene	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
trans-1,2-Dichloroethene	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
Trichloroethene	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
Tetrachloroethene	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
Vinyl chloride	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
Chloroethane	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
Benzene	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
Ethylbenzene	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
Toluene	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
o-Xylene	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
m&p-Xylene	ug/kg	<170	<170	<170	<160	<180	<160	<180	<170	<160	<100	<100	<200	<100	<100	<100 [<100]	<100
Xylene (total)	ug/kg	<253	<254	<253	<242	<268	<239	<268	<253	<240	<160	<160	<280	<160	<160	<160 [<160]	<170
Methyl tert butyl ether (MTBE)	ug/kg	<83	<84	<83 J	<82	<88	<79 J	<88 J	<83 J	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<830	<840	<830	<820	<880	<790	<880	<830	<800	<570	<630	<770	<630	<650	<610 [<640]	<690
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<830	<840	<830	<820	<880	<790	<880	<830	<800	<570	<630	<770	<630	<650	<610 [<640]	<690
1,2,4-Trichlorobenzene	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
1,2,4-Trimethylbenzene	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
1,3-Dichlorobenzene	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
Cyclohexane	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
Methyl cyclohexane	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<120	<60	<60	<60 [<60]	<70
Dibromochloromethane	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
Isopropyl benzene	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	<60	<60	<80	<60	<60	<60 [<60]	<70
Naphthalene	ug/kg	<83	<84	<83	<82	<88	<79	<88	<83	<80	NA	NA	NA	NA	NA	NA	NA

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A6-SL188 11 - 12 05/17/12	SB-A6-SL188 21 - 22 05/17/12	SB-A6-SL192 1 - 2 05/16/12	SB-A6-SL192 9 - 10 05/16/12	SB-A6-SL192 19 - 20 05/16/12	SB-A6-SL192 29 - 30 05/16/12	SB-A6-SN190 1 - 2 05/16/12	SB-A6-SN190 11 - 12 05/16/12	SB-A6-SN190 21 - 22 05/16/12	SB-A7-SO214 1 - 2 06/04/12	SB-A7-SO214 5 - 6 06/04/12	SB-A7-SO214 13 - 14 06/04/12	SB-A7-SO214 19 - 20 06/04/12	SB-A7-SP219 1 - 2 06/05/12	SB-A7-SP219 4 - 5 06/05/12	SB-A7-SP219 12 - 13 06/05/12
	Units																
Semivolatile Organics																	
2-Methyl-4,6-dinitrophenol	ug/kg	<40 J	<40 J	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	R	<40 [R]	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	R	<40 [R]	<40
2,4-Dichlorophenol	ug/kg	<40	<40	<40	<40 J	<40 J	<30 J	<40 J	<30 J	<40 J	<40	<40	<40	<40	R	<40 [R]	<40
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	R	<40 [R]	<40
2,4-Dimethylphenol	ug/kg	<40	<40	<40	<40 J	<40 J	<30 J	<40 J	<30 J	<40 J	<40	<40	<40	<40	R	<40 [R]	<40
2,4-Dinitrophenol	ug/kg	<40 J	<40 J	<40 J	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	R	<40 [R]	<40
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
2-Chloronaphthalene	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
2-Chlorophenol	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	R	<40 [R]	<40
2-Methylnaphthalene	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
2-Methylphenol	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	R	<40 [R]	<40
2-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
2-Nitrophenol	ug/kg	<40	<40	<40	<40 J	<40 J	<30 J	<40 J	<30 J	<40 J	<40	<40	<40	<40	R	<40 [R]	<40
3&4-Methylphenol	ug/kg	<70	<70	<80	<70	<80	<70	<80	<70	<70	<70	<80	<80	<70	R	<70 [R]	<80
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
Naphthalene	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
3-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	R	<40 [R]	<40
4-Chloroaniline	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
4-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
4-Nitrophenol	ug/kg	<40 J	<40 J	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	R	<40 [R]	<40
Anthracene	ug/kg	<40 J	<40 J	<40	<40	<40	<30	<40	<30	<40	50	<40	<40	<40	200 S	100 [50 S]	<40
Acenaphthene	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	40 [<40]	<40
Acenaphthylene	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
Acetophenone	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
Atrazine	ug/kg	<40 J	<40 J	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
Benzaldehyde	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
Benzo(a)anthracene	ug/kg	<40	<40	50	<40	<40	<30	<40	<30	<40	180	<40	<40	<40	700	340 [160]	<40
Benzo(a)pyrene	ug/kg	<40 J	<40 J	50	<40	<40	<30	<40	<30	<40	190	<40	<40	<40	600	300 [140]	<40
Benzo(b)fluoranthene	ug/kg	<40 J	<40 J	100 J	<40	<40	<30	<40	<30	<40	380	<40	<40	<40	1,000 J	560 J [250 J]	<40
Benzo(g,h,i)perylene	ug/kg	<40 J	<40 J	<40	<40	<40	<30	<40	<30	<40	110	<40	<40	<40	400	200 [110]	<40
Benzo(k)fluoranthene	ug/kg	<40	<40	110 J	<40	<40	<30	<40	<30	<40	390	<40	<40	<40	1,000 J	580 J [250 J]	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<40	<40 J	<40 J	<30 J	<40 J	<30 J	<40 J	<40	<40	<40	<40	<200	<40 [<40]	<40
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<40	<40 J	<40 J	<30 J	<40 J	<30 J	<40 J	<40	<40	<40	<40	<200	<40 [<40]	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70	<70	<80	<70	<80	80	<80	<70	120	210	<80	<80	<70	<300	<70 [<70]	<80
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	40	<40	<40	<40	<200	<40 [<40]	<40
Caprolactam	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
Carbazole	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	60 [<40]	<40
Chrysene	ug/kg	<40	<40	60	<40	<40	<30	<40	<30	<40	190	<40	<40	<40	700	340 [160]	<40
Dibenz(a,h)anthracene	ug/kg	<70	<70	<80	<70	<80	<70	<80	<70	<70	<70	<80	<80	<70	<300	110 [<70]	<80
Dibenzofuran	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
Diethyl phthalate	ug/kg	<70	<70	<80	<70	<80	<70	<80	<70	<70	<70	<80	<80	<70	<300	<70 [<70]	<80
Dimethyl phthalate	ug/kg	430 B	<360 B	<140 B	<100 B	<170 B	<190 B	<240 B	<190 B	<160 B	40	<40	<40	<40	<200	<180 B [<40]	<180 B
Di-n-butylphthalate (DBP)	ug/kg	<70	<70	<80	<70	<80	<70	<80	<70	<70	<40	<80	<80	<70	<300	<90 B [<70]	<80
Di-n-octyl phthalate (DnOP)	ug/kg	<70	<70	<80	<70	<80	<70	<80	<70	<70	<70	<80	<80	<70	<300	<70 [<70]	<80
Fluoranthene	ug/kg	<40	<40	70	<40	<40	<30	<40	<30	<40	350	40	<40	<40	1,500 S	720 [350 S]	<40
Fluorene	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	40 [<40]	<40
Hexachlorobenzene	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
Hexachlorobutadiene	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
Hexachlorocyclopentadiene	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
Hexachloroethane	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	110	<40	<40	<40	400	180 [100]	<40
Isophorone	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
Nitrobenzene	ug/kg	<40	<40	<40	<40 J	<40 J	<30 J	<40 J	<30 J	<40 J	<40	<40	<40	<40	<200	<40 [<40]	<40
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
N-Nitrosodiphenylamine	ug/kg	<40 J	<40 J	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	<200	<40 [<40]	<40
Pentachlorophenol	ug/kg	<40 J	<40 J	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	R	<40 [R]	<40
Phenanthrene	ug/kg	<40 J	<40 J	<40	<40	<40	<30	<40	<30	<40	170	<40	<40	<40	1,000 S	400 [190 S]	<40
Phenol	ug/kg	<40	<40	<40	<40	<40	<30	<40	<30	<40	<40	<40	<40	<40	R	<40 [R]	<40
Pyrene	ug/kg	<40	<40	70	<40	<40	<30	<40	<30	<40	330	<40	<40	<40	1,300	650 [300]	<40

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A6-SL188	SB-A6-SL188	SB-A6-SL192	SB-A6-SL192	SB-A6-SL192	SB-A6-SL192	SB-A6-SN190	SB-A6-SN190	SB-A6-SN190	SB-A6-SN190	SB-A7-SO214	SB-A7-SO214	SB-A7-SO214	SB-A7-SO214	SB-A7-SP219	SB-A7-SP219	SB-A7-SP219
		11 - 12	21 - 22	1 - 2	9 - 10	19 - 20	29 - 30	1 - 2	11 - 12	21 - 22	1 - 2	5 - 6	13 - 14	19 - 20	1 - 2	4 - 5	12 - 13	
		05/17/12	05/17/12	05/16/12	05/16/12	05/16/12	05/16/12	05/16/12	05/16/12	05/16/12	06/04/12	06/04/12	06/04/12	06/04/12	06/05/12	06/05/12	06/05/12	
PCBs																		
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																		
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																		
Total solids	%	90	91	87	89	86	98	86	98	92	94	88	80	89	88	89 [90]	84	

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A7-SP219 18 - 19 06/05/12	SB-A7-SQ209 1.5 - 2 06/04/12	SB-A7-SQ209 7 - 8 06/04/12	SB-A7-SQ209 13 - 14 06/04/12	SB-A7-SQ209 19 - 20 06/04/12	SB-A7-ST221 2 - 3 09/25/12	SB-A7-ST221 9 - 10 09/25/12	SB-A7-ST221 14 - 15 09/25/12	SB-A7-ST221 19 - 20 09/25/12	SB-A7-ST221 25 - 26 09/25/12	SB-A7-SX206 0 - 1 06/04/12	SB-A7-SX206 6 - 7 06/04/12	SB-A7-SX206 14 - 15 06/04/12	SB-A7-SX206 19 - 20 06/04/12	SB-A7-SZ209 1 - 2 06/05/12	SB-A7-SZ209 5 - 6 06/05/12
	Units																
Volatile Organics																	
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
1,2-Dichlorobenzene	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
1,4-Dichlorobenzene	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
2-Hexanone	ug/kg	<620	<620	<720	<630 [<770]	<640	<570	<640	<1,100	<700	<630	<630	<630	<600	<610	<540	<600
Acetone	ug/kg	<620	<620	<720	<630 [<770]	<640	<570	<640	1,300	<700	<630	<630	<630	<600	<610	<540	<600
Bromodichloromethane	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
Bromoform	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
Bromomethane (Methyl bromide)	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
Carbon disulfide	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
Carbon tetrachloride	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
Chlorobenzene	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
Chloroform (Trichloromethane)	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
Chloromethane (Methyl chloride)	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
cis-1,3-Dichloropropene	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
Dichlorodifluoromethane (CFC-12)	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
Methyl acetate	ug/kg	<620	<620	<720	<630 [<770]	<640	<570	1,510	<1,100	<700	<630	<630	<630	<600	<610	<540	<600
Methylene chloride	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
Styrene	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
trans-1,3-Dichloropropene	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
Trichlorofluoromethane (CFC-11)	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
Trifluorotrichloroethane (Freon 113)	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
1,4-Dioxane	ug/kg	<6,000	<6,000	<7,000	<6,000 [<8,000]	<6,000	NA	NA	NA	NA	NA	<6,000 J	<6,000	<6,000	<6,000	<6,000	<6,000
1,1,1-Trichloroethane	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
1,1,2,2-Tetrachloroethane	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
1,1,2-Trichloroethane	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
1,1-Dichloroethane	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
1,1-Dichloroethene	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
1,2-Dichloroethane	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
cis-1,2-Dichloroethene	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
trans-1,2-Dichloroethene	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
Trichloroethene	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
Tetrachloroethene	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
Vinyl chloride	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
Chloroethane	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
Benzene	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
Ethylbenzene	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
Toluene	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
o-Xylene	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
m&p-Xylene	ug/kg	<100	<100	<100	<100 [<200]	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<100
Xylene (total)	ug/kg	<160	<160	<170	<160 [<280]	<160	<160	<160	<300	<170	<160	<160	<160	<160	<160	<160	<160
Methyl tert butyl ether (MTBE)	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<620	<620	<720	<630 [<770]	<640	<570	<640	<1,100	<700	<630	<630	<630	<600	<610	<540	<600
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<620	<620	<720	<630 [<770]	<640	<570	<640	<1,100	<700	<630	<630	<630	<600	<610	<540	<600
1,2,4-Trichlorobenzene	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
1,3-Dichlorobenzene	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
Cyclohexane	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
Methyl cyclohexane	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
Dibromochloromethane	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	<100	<70	<60	<60	<60	<60	<60	<60	<60
Isopropyl benzene	ug/kg	<60	<60	<70	<60 [<80]	<60	<60	<60	200	<70	<60	<60	<60	<60	<60	<60	<60
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A7-SP219 18 - 19 06/05/12	SB-A7-SQ209 1.5 - 2 06/04/12	SB-A7-SQ209 7 - 8 06/04/12	SB-A7-SQ209 13 - 14 06/04/12	SB-A7-SQ209 19 - 20 06/04/12	SB-A7-ST221 2 - 3 09/25/12	SB-A7-ST221 9 - 10 09/25/12	SB-A7-ST221 14 - 15 09/25/12	SB-A7-ST221 19 - 20 09/25/12	SB-A7-ST221 25 - 26 09/25/12	SB-A7-SX206 0 - 1 06/04/12	SB-A7-SX206 6 - 7 06/04/12	SB-A7-SX206 14 - 15 06/04/12	SB-A7-SX206 19 - 20 06/04/12	SB-A7-SZ209 1 - 2 06/05/12	SB-A7-SZ209 5 - 6 06/05/12
	Units																
Semivolatile Organics																	
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100 J	<1,000 J	<40	<40	<40	<30	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	<40 J	<40	<40	<40 [<40]	<40	<100 J	<100 J	<300 J	<100 J	<100 J	<1,000 J	<40	<40	<40	<30	<40
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
2,4-Dichlorophenol	ug/kg	<40 J	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100 J	<1,000 J	<40	<40	<40	<30	<40
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
2,4-Dimethylphenol	ug/kg	<40 J	<40	<40	<40 [<40]	<40	<100 J	<100 J	<300 J	<100 J	<100 J	<1,000 J	<40	<40	<40	<30	<40
2,4-Dinitrophenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100 J	<1,000 J	<40	<40	<40	<30	<40
2,4-Dinitrotoluene	ug/kg	<40 J	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
2-Chloronaphthalene	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
2-Chlorophenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
2-Methylnaphthalene	ug/kg	<40	60	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
2-Methylphenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
2-Nitroaniline	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
2-Nitrophenol	ug/kg	<40 J	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
3&4-Methylphenol	ug/kg	<70	<70	<80	<70 [<80]	<70	<200	<200	<500	<200	<200	<2,000 J	<70	<70	<70	<70	<70
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100 J	<1,000 J	<40	<40	<40	<30	<40
Naphthalene	ug/kg	<40	40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
3-Nitroaniline	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
4-Chloroaniline	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100 J	<1,000 J	<40	<40	<40	<30	<40
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100 J	<1,000 J	<40	<40	<40	<30	<40
4-Nitroaniline	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
4-Nitrophenol	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
Anthracene	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	3,000 J	<40	<40	<40	<30	<40
Acenaphthene	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	2,000 J	<40	<40	<40	<30	<40
Acenaphthylene	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
Acetophenone	ug/kg	<40 J	<40	<40	<40 [<40]	<40	<100 J	<100 J	<300 J	<100 J	<100 J	<1,000 J	<40	<40	<40	<30	<40
Atrazine	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100 J	<1,000 J	<40	<40	<40	<30	<40
Benzaldehyde	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100 J	<1,000 J	<40	<40	<40	<30	<40
Benzo(a)anthracene	ug/kg	<40	150	<40	<40 [<40]	<40	<100	<100	<300	<100	<100 J	10,000 J	<40	<40	<40	<30	<40
Benzo(a)pyrene	ug/kg	<40	200 J	<40	<40 [<40]	<40	<100	<100	<300	<100	<100 J	10,000 J ^f	<40	<40	<40	<30	<40
Benzo(b)fluoranthene	ug/kg	<40	340 J	<40	<40 [<40]	<40	<100	<100	<300	<100	<100 J	18,000 J	<40	<40	<40	<30	<40
Benzo(g,h,i)perylene	ug/kg	<40	110 J	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	5,000 J	<40	<40	<40	<30	<40
Benzo(k)fluoranthene	ug/kg	<40	350 J	<40	<40 [<40]	<40	<100	<100	<300	<100	<100 J	19,000 J	<40	<40	<40	<30	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
bis(2-Chloroethoxy)methane	ug/kg	<40 J	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100 J	<1,000 J	<40	<40	<40	<30	<40
bis(2-Chloroethyl)ether	ug/kg	<40 J	<40	<40	<40 [<40]	<40	<100 J	<100 J	<300 J	<100 J	<100 J	<1,000 J	<40	<40	<40	<30	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70 J	<70	<80	<70 [<80]	<70	<200 J	<200 J	<500 J	<200 J	<200 J	<2,000 J	<70	<70	<70	<70	<70
Butyl benzylphthalate (BBP)	ug/kg	<40 J	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
Caprolactam	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100 J	<1,000 J	<40	<40	<40	<30	<40
Carbazole	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100 J	2,000 J ^b	<40	<40	<40	<30	<40
Chrysene	ug/kg	<40	160	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	10,000 J	<40	<40	<40	<30	<40
Dibenz(a,h)anthracene	ug/kg	<70	<70 J	<80	<70 [<80]	<70	<200	<200	<500	<200	<200 J	<2,000 J	<70	<70	<70	<70	<70
Dibenzofuran	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
Diethyl phthalate	ug/kg	<70	<70	<80	<70 [<80]	<70	<200	<200	<500	<200	<200	<2,000 J	<70	<70	<70	<70	<70
Dimethyl phthalate	ug/kg	<240 B	<60 B	<50 B	<50 B [<70 B]	<40 B	<100	<100	<300	<100	<100	<1,000 J	<220 B	<60 B	<230 B	<40 B	<60 B
Di-n-butylphthalate (DBP)	ug/kg	<70 J	<70	<80	<70 [<80]	<70	<200	<200	<500	<200	<200 J	<2,000 J	<70	<70	<70	<70	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<70 J	<70 J	<80	<70 [<80]	<70	<200 J	<200 J	<500 J	<200 J	<200 J	<2,000 J	<70	<70	<70	<70	<70
Fluoranthene	ug/kg	<40	210	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	23,000 J ^b	<40	<40	<40	<30	<40
Fluorene	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	2,000 J	<40	<40	<40	<30	<40
Hexachlorobenzene	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
Hexachlorobutadiene	ug/kg	<40 J	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
Hexachlorocyclopentadiene	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100 J	<1,000 J	<40	<40	<40	<30	<40
Hexachloroethane	ug/kg	<40 J	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100 J	<1,000 J	<40	<40	<40	<30	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<40	90 J	<40	<40 [<40]	<40	<100	<100	<300	<100	<100 J	5,000 J	<40	<40	<40	<30	<40
Isophorone	ug/kg	<40 J	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
Nitrobenzene	ug/kg	<40 J	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
N-Nitrosodiphenylamine	ug/kg	<40	<40	<40	<40 [<40]	<40	<100	<100	<300	<100	<100	<1,000 J	<40	<40	<40	<30	<40
Pentachlorophenol	ug/kg	<40	<40	<40	<40 [<40]	<											

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A7-SP219	SB-A7-SQ209	SB-A7-SQ209	SB-A7-SQ209	SB-A7-SQ209	SB-A7-ST221	SB-A7-ST221	SB-A7-ST221	SB-A7-ST221	SB-A7-ST221	SB-A7-SX206	SB-A7-SX206	SB-A7-SX206	SB-A7-SX206	SB-A7-SZ209	SB-A7-SZ209
		18 - 19	1.5 - 2	7 - 8	13 - 14	19 - 20	2 - 3	9 - 10	14 - 15	19 - 20	25 - 26	0 - 1	6 - 7	14 - 15	19 - 20	1 - 2	5 - 6
		06/05/12	06/04/12	06/04/12	06/04/12	06/04/12	09/25/12	09/25/12	09/25/12	09/25/12	09/25/12	06/04/12	06/04/12	06/04/12	06/04/12	06/05/12	06/05/12
PCBs																	
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																	
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																	
Total solids	%	89	89	81	89 [80]	89	93	87	64	82	89	89	90	93	91	96	92

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A7-SZ209 23 - 24 06/05/12	SB-A7-SZ212 1 - 2 06/04/12	SB-A7-SZ212 7 - 8 06/04/12	SB-A7-SZ212 13 - 14 06/04/12	SB-A7-SZ212 19 - 20 06/04/12	SB-A7-SZ217 1 - 2 06/04/12	SB-A7-SZ217 4 - 5 06/04/12	SB-A7-SZ217 12 - 13 06/04/12	SB-A7-SZ217 18 - 19 06/04/12	SB-A7-TB220 4 - 5 09/25/12	SB-A7-TB220 9 - 10 09/25/12	SB-A7-TD212 8 - 8.5 11/29/12	SB-A7-TD212 10 - 10.5 11/29/12	SB-A7-TD220 2 - 3 11/06/12	SB-A7-TD220 8 - 9 11/06/12	SB-A7-TD220 14 - 15 11/06/12
	Units																
Volatile Organics																	
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
1,2-Dichlorobenzene	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
1,4-Dichlorobenzene	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
2-Hexanone	ug/kg	<610	<560	<770	<740	<630	<530	<580	<580	<620	<530	<6,200	<500	<500	<610	<2,000	<970 [<920]
Acetone	ug/kg	<610	<560	<770	<740	<630	<530	<580	<580	<620	<530	<6,200	<500	<500	<610	<2,000	<970 [<920]
Bromodichloromethane	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
Bromoform	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
Bromomethane (Methyl bromide)	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
Carbon disulfide	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
Carbon tetrachloride	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
Chlorobenzene	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
Chloroform (Trichloromethane)	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
Chloromethane (Methyl chloride)	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
cis-1,3-Dichloropropene	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
Dichlorodifluoromethane (CFC-12)	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
Methyl acetate	ug/kg	<610	<560	<770	<740	<630	<530	<580	<580	<620	<530	<6,200	<500	<500	<610	<2,000	<970 [<920]
Methylene chloride	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
Styrene	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
trans-1,3-Dichloropropene	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60 J	<200 J	<100 J [<90 J]
Trichlorofluoromethane (CFC-11)	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
Trifluorotrichloroethane (Freon 113)	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
1,4-Dioxane	ug/kg	<6,000	<6,000	<8,000	<7,000	<6,000	<5,000	<6,000	<6,000	<6,000	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
1,1,2,2-Tetrachloroethane	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
1,1,2-Trichloroethane	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
1,1-Dichloroethane	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
1,1-Dichloroethene	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
1,2-Dichloroethane	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
cis-1,2-Dichloroethene	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
trans-1,2-Dichloroethene	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
Trichloroethene	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
Tetrachloroethene	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
Vinyl chloride	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
Chloroethane	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
Benzene	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
Ethylbenzene	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	64,000 D ^{ab}	<50	<50	<60	<200	<100 [<90]
Toluene	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	37,000 D ^{ab}	<50	<50	<60	<200	<100 [<90]
o-Xylene	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	202,000 D ^{abcdfh}	<50	<50	<60	<200	<100 [<90]
m&p-Xylene	ug/kg	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	270,000 D ^{abcdfh}	<100	<100	<100	<400	<200 [<200]
Xylene (total)	ug/kg	<160	<160	<280	<170	<160	<150	<160	<160	<160	<150	472,000 ^{abcdfh}	<150	<150	<160	<600	<300 [<290]
Methyl tert butyl ether (MTBE)	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<610	<560	<770	<740	<630	<530	<580	<580	<620	<530	<6,200	<500	<500	<610	<2,000	<970 [<920]
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<610	<560	<770	<740	<630	<530	<580	<580	<620	<530	<6,200	<500	<500	<610	<2,000	<970 [<920]
1,2,4-Trichlorobenzene	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
1,3-Dichlorobenzene	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
Cyclohexane	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
Methyl cyclohexane	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	270,000 D	<50	<50	<60	<200	<100 [<90]
Dibromochloromethane	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	<600	<50	<50	<60	<200	<100 [<90]
Isopropyl benzene	ug/kg	<60	<60	<80	<70	<60	<50	<60	<60	<60	<50	83,000 D ^b	<50	<50	<60	<200	<100 [<90]
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A7-SZ209 23 - 24 06/05/12	SB-A7-SZ212 1 - 2 06/04/12	SB-A7-SZ212 7 - 8 06/04/12	SB-A7-SZ212 13 - 14 06/04/12	SB-A7-SZ212 19 - 20 06/04/12	SB-A7-SZ217 1 - 2 06/04/12	SB-A7-SZ217 4 - 5 06/04/12	SB-A7-SZ217 12 - 13 06/04/12	SB-A7-SZ217 18 - 19 06/04/12	SB-A7-TB220 4 - 5 09/25/12	SB-A7-TB220 9 - 10 09/25/12	SB-A7-TD212 8 - 8.5 11/29/12	SB-A7-TD212 10 - 10.5 11/29/12	SB-A7-TD220 2 - 3 11/06/12	SB-A7-TD220 8 - 9 11/06/12	SB-A7-TD220 14 - 15 11/06/12
	Units																
Semivolatile Organics																	
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
2,4-Dichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
2,4-Dimethylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
2,4-Dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40 J	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
2-Chloronaphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
2-Chlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
2-Methylnaphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
2-Methylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
2-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
2-Nitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
3&4-Methylphenol	ug/kg	<70	<70	<80	<80	<80	<70	<70	<70	<80	NA	NA	<300	<300	NA	NA	NA
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<40	<40 J	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
Naphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
3-Nitroaniline	ug/kg	<40	<40	<40	<40	<40 J	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
4-Chloroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
4-Nitroaniline	ug/kg	<40	<40	<40	<40	<40 J	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
4-Nitrophenol	ug/kg	<40	<40	<40	<40	<40 J	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
Anthracene	ug/kg	<40	<40	<40	<40	<40	<40	50	<40	<40	NA	NA	<100	<100	NA	NA	NA
Acenaphthene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
Acenaphthylene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
Acetophenone	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
Atrazine	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
Benzaldehyde	ug/kg	<40	<40	<40	<40	<40	<50	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
Benzo(a)anthracene	ug/kg	<40	70	<40	<40	<40	100	180	<40	<40	NA	NA	<100	<100	NA	NA	NA
Benzo(a)pyrene	ug/kg	<40	70	<40	<40	<40 J	120	180	<40	<40	NA	NA	<100	<100	NA	NA	NA
Benzo(b)fluoranthene	ug/kg	<40	130 J	<40	<40	<40	230 J	350 J	<40	<40	NA	NA	<100	<100	NA	NA	NA
Benzo(g,h,i)perylene	ug/kg	<40	40	<40	<40	<40 J	80	100	<40	<40	NA	NA	<100	<100	NA	NA	NA
Benzo(k)fluoranthene	ug/kg	<40	130 J	<40	<40	<40 J	230 J	360 J	<40	<40	NA	NA	<100	<100	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40	<40	<40 J	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70	<70	<80	<80	<80 J	<70	<70	<70	<80	NA	NA	<300	<300	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<40	<40	<40	160	90	<40	<40	NA	NA	<100	<100	NA	NA	NA
Caprolactam	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
Carbazole	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
Chrysene	ug/kg	<40	70	<40	<40	<40	100	180	<40	<40	NA	NA	<100	<100	NA	NA	NA
Dibenz(a,h)anthracene	ug/kg	<70	<70	<80	<80	<80	<70	<70	<70	<80	NA	NA	<300	<300	NA	NA	NA
Dibenzofuran	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
Diethyl phthalate	ug/kg	<70	<70	<80	<80	<80	<70	<70	<70	<80	NA	NA	<300	<300	NA	NA	NA
Dimethyl phthalate	ug/kg	<80 B	<40	<120 B	<110 B	<40 BJ	<140 B	<40 B	<70 B	<60 B	NA	NA	<100	<100	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/kg	<70	<70	<80	<80	<80	<70	350 B	<70	<80	NA	NA	<300	<300	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/kg	<70	<70	<80	<80	<80 J	<70	<70	<70	<80	NA	NA	<300	<300	NA	NA	NA
Fluoranthene	ug/kg	<40	120	<40	<40	<40	190	350	<40	<40	NA	NA	<100	<100	NA	NA	NA
Fluorene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
Hexachlorobenzene	ug/kg	<40	<40	<40	<40	<40 J	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
Hexachlorobutadiene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
Hexachlorocyclopentadiene	ug/kg	<40	<40	<40	<40	<40 J	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
Hexachloroethane	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	<40	<40	<40	70	100	<40	<40	NA	NA	<100	<100	NA	NA	NA
Isophorone	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
Nitrobenzene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
N-Nitrosodiphenylamine	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
Pentachlorophenol	ug/kg	<40	<40	<40	<40	<40 J	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
Phenanthrene	ug/kg	<40	70	<40	<40	<40	80	210	<40	<40	NA	NA	<100	<100	NA	NA	NA
Phenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	NA	NA	<100	<100	NA	NA	NA
Pyrene	ug/kg	<40	120	<40	<40	<40	170	330	<40	<40	NA	NA	<100	<100	NA	NA	NA

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A7-SZ209	SB-A7-SZ212	SB-A7-SZ212	SB-A7-SZ212	SB-A7-SZ212	SB-A7-SZ217	SB-A7-SZ217	SB-A7-SZ217	SB-A7-SZ217	SB-A7-SZ217	SB-A7-TB220	SB-A7-TB220	SB-A7-TD212	SB-A7-TD212	SB-A7-TD220	SB-A7-TD220	SB-A7-TD220
		23 - 24	1 - 2	7 - 8	13 - 14	19 - 20	1 - 2	4 - 5	12 - 13	18 - 19	4 - 5	9 - 10	8 - 8.5	10 - 10.5	2 - 3	8 - 9	14 - 15	
		06/05/12	06/04/12	06/04/12	06/04/12	06/04/12	06/04/12	06/04/12	06/04/12	06/04/12	09/25/12	09/25/12	11/29/12	11/29/12	11/06/12	11/06/12	11/06/12	
PCBs																		
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																		
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.32	3.06	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.37	0.15	NA	NA	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.97	6.36	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	45.2	405	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.82 ^{bi}	0.19	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05	0.04	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.1	12.3	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																		
Total solids	%	92	94	79	80	88	95	93	93	88	95	89	67	77	88	42	68 [69]	

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A7-TD220 19 - 20 11/06/12	SB-A7-TI208 4 - 5 11/06/12	SB-A7-TI208 15 - 16 11/06/12	SB-A7-TI208 29 - 30 11/07/12	SB-A7-TI227 3 - 4 11/06/12	SB-A7-TI227 14 - 15 11/06/12	SB-A7-TI227 29 - 30 11/06/12	SB-A9-RK206 4 - 5 09/25/12	SB-A9-RK206 9 - 10 09/25/12	SB-A9-RK206 15 - 16 09/25/12	SB-A9-RK206 21 - 22 09/25/12	SB-A9-RK206 27 - 28 09/25/12	SB-A9-RO207 1 - 2 05/31/12	SB-A9-RO207 4 - 5 05/31/12	SB-A9-RO207 9 - 10 05/31/12	SB-A9-RO207 15 - 16 05/31/12
	Units																
Volatile Organics																	
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
1,2-Dichlorobenzene	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
1,4-Dichlorobenzene	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
2-Hexanone	ug/kg	<630	NA	NA	NA	NA	NA	NA	<630	<630	<610	<620	<680	<750	<830 J	<810	<870
Acetone	ug/kg	<630	NA	NA	NA	NA	NA	NA	<630	<630	<610	<620	<680	<1,900	<2,100 J	<2,000	<2,200
Bromodichloromethane	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
Bromoform	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
Bromomethane (Methyl bromide)	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	NA	NA	NA	NA
Carbon disulfide	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
Carbon tetrachloride	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
Chlorobenzene	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
Chloroform (Trichloromethane)	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
Chloromethane (Methyl chloride)	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<190	<210 J	<200	<220
cis-1,3-Dichloropropene	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
Dichlorodifluoromethane (CFC-12)	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	NA	NA	NA	NA
Methyl acetate	ug/kg	<630	NA	NA	NA	NA	NA	NA	<630	<630	<610	<620	<680	NA	NA	NA	NA
Methylene chloride	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
Styrene	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	230	<87
trans-1,3-Dichloropropene	ug/kg	<60 J	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
Trichlorofluoromethane (CFC-11)	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
1,4-Dioxane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<750	<830 J	<810	<870
1,1,1-Trichloroethane	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
1,1,2,2-Tetrachloroethane	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
1,1,2-Trichloroethane	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
1,1-Dichloroethane	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
1,1-Dichloroethene	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
1,2-Dichloroethane	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
cis-1,2-Dichloroethene	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
trans-1,2-Dichloroethene	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
Trichloroethene	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
Tetrachloroethene	ug/kg	<60	NA	NA	NA	NA	NA	NA	380 ^a	<60	<60	<60	<70	89	77 J	<81	<87
Vinyl chloride	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
Chloroethane	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
Benzene	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
Ethylbenzene	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	7,200 ^{ab}	<87
Toluene	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	59 J	<87
o-Xylene	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	5,500 ^b	<87
m&p-Xylene	ug/kg	<100	NA	NA	NA	NA	NA	NA	<100	<100	<100	<100	<100	<150	<170 J	19,000 ^{ab}	<170
Xylene (total)	ug/kg	<160	NA	NA	NA	NA	NA	NA	<160	<160	<160	<160	<170	<225	<253	24,500 ^{ab}	<257
Methyl tert butyl ether (MTBE)	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<630	NA	NA	NA	NA	NA	NA	<630	<630	<610	<620	<680	<750	<830 J	<810	<870
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<630	NA	NA	NA	NA	NA	NA	<630	<630	<610	<620	<680	<750 J	<830 J	<810 J	<870 J
1,2,4-Trichlorobenzene	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<75	<83 J	14,000 ^{ab}	<87
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<75 J	<83 J	5,800 ^{ab}	<87
1,2-Dichloropropane	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
1,3-Dichlorobenzene	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
Cyclohexane	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
Methyl cyclohexane	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
Dibromochloromethane	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	<81	<87
Isopropyl benzene	ug/kg	<60	NA	NA	NA	NA	NA	NA	<60	<60	<60	<60	<70	<75	<83 J	1,500	<87
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<75	<83 J	330	<87

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A7-TD220 19 - 20 11/06/12	SB-A7-TI208 4 - 5 11/06/12	SB-A7-TI208 15 - 16 11/06/12	SB-A7-TI208 29 - 30 11/07/12	SB-A7-TI227 3 - 4 11/06/12	SB-A7-TI227 14 - 15 11/06/12	SB-A7-TI227 29 - 30 11/06/12	SB-A9-RK206 4 - 5 09/25/12	SB-A9-RK206 9 - 10 09/25/12	SB-A9-RK206 15 - 16 09/25/12	SB-A9-RK206 21 - 22 09/25/12	SB-A9-RK206 27 - 28 09/25/12	SB-A9-RO207 1 - 2 05/31/12	SB-A9-RO207 4 - 5 05/31/12	SB-A9-RO207 9 - 10 05/31/12	SB-A9-RO207 15 - 16 05/31/12
	Units																
Semivolatile Organics																	
2-Methyl-4,6-dinitrophenol	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200 J	<100 J	<100 J	<100 J	<100 J	<70	<40	<40	<40
2,4,6-Trichlorophenol	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
2,4-Dichlorophenol	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
2,4,5-Trichlorophenol	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
2,4-Dimethylphenol	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200 J	<100 J	<100 J	<100 J	<100 J	<70	<40	90	<40
2,4-Dinitrophenol	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
2,4-Dinitrotoluene	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
2,6-Dinitrotoluene	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
2-Chloronaphthalene	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
2-Chlorophenol	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
2-Methylnaphthalene	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
2-Methylphenol	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
2-Nitroaniline	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
2-Nitrophenol	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
3&4-Methylphenol	ug/kg	NA	<200	<200	<200	NA	NA	NA	<400	<200	<200	<200	<200	<100	<70	<70	<70
3,3'-Dichlorobenzidine	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
Naphthalene	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	190	<40
3-Nitroaniline	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
4-Bromophenyl phenyl ether	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
4-Chloro-3-methylphenol	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
4-Chloroaniline	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200 J	<100	<100	<100	<100	<70	<40	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
4-Nitroaniline	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
4-Nitrophenol	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
Anthracene	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	80	<40	<40	<40
Acenaphthene	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
Acenaphthylene	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
Acetophenone	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200 J	<100 J	<100 J	<100 J	<100 J	<70	<40	<40	<40
Atrazine	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
Benzaldehyde	ug/kg	NA	<200	<200	<200	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<8,600	<40
Benzo(a)anthracene	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	390	<40	<40	<40
Benzo(a)pyrene	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	400	<40	<40	<40
Benzo(b)fluoranthene	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	760 J	50 J	<40	<40
Benzo(g,h,i)perylene	ug/kg	NA	<200	<200	<200	NA	NA	NA	<200	<100	<100	<100	<100	250	<40	<40	<40
Benzo(k)fluoranthene	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	780 J	50 J	<40	<40
Biphenyl (1,1-Biphenyl)	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
bis(2-Chloroethoxy)methane	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
bis(2-Chloroethyl)ether	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200 J	<100 J	<100 J	<100 J	<100 J	<70	<40	<40	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	NA	<200	<200	<200	NA	NA	NA	<400 J	<200 J	<200 J	<200 J	<200 J	200	<70	<70	<70
Butyl benzylphthalate (BBP)	ug/kg	NA	<200	<200	<200	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
Caprolactam	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
Carbazole	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
Chrysene	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	400	<40	<40	<40
Dibenz(a,h)anthracene	ug/kg	NA	<200	<200	<200	NA	NA	NA	<400	<200	<200	<200	<200	<100	<70	<70	<70
Dibenzofuran	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
Diethyl phthalate	ug/kg	NA	<200	<200	<200	NA	NA	NA	<400	<200	<200	<200	<200	<100	<70	<70	<70
Dimethyl phthalate	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<60 B	<80 B	<170 B
Di-n-butylphthalate (DBP)	ug/kg	NA	<200	<200	<200	NA	NA	NA	<400 J	<200	<200	<200	<200	<100	<70	<70	<70
Di-n-octyl phthalate (DnOP)	ug/kg	NA	<200	<200	<200	NA	NA	NA	<400 J	<200 J	<200 J	<200 J	<200 J	<100	<70	<70	<70
Fluoranthene	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	730	40	<40	<40
Fluorene	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
Hexachlorobenzene	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
Hexachlorobutadiene	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
Hexachlorocyclopentadiene	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
Hexachloroethane	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200 J	<100	<100	<100	<100	<70	<40	<40	<40
Indeno(1,2,3-cd)pyrene	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	220	<40	<40	<40
Isophorone	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
Nitrobenzene	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
N-Nitrosodi-n-propylamine	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	400 ^a	<100	<100	<70	<40	<40	<40
N-Nitrosodiphenylamine	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
Pentachlorophenol	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
Phenanthrene	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	360	<40	<40	<40
Phenol	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	<70	<40	<40	<40
Pyrene	ug/kg	NA	<100	<100	<100	NA	NA	NA	<200	<100	<100	<100	<100	730	40	<40	<40

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A7-TD220	SB-A7-TI208	SB-A7-TI208	SB-A7-TI208	SB-A7-TI227	SB-A7-TI227	SB-A7-TI227	SB-A7-TI227	SB-A9-RK206	SB-A9-RK206	SB-A9-RK206	SB-A9-RK206	SB-A9-RK206	SB-A9-RO207	SB-A9-RO207	SB-A9-RO207	SB-A9-RO207
		19 - 20	4 - 5	15 - 16	29 - 30	3 - 4	14 - 15	29 - 30	4 - 5	9 - 10	15 - 16	21 - 22	27 - 28	1 - 2	4 - 5	9 - 10	15 - 16	
		11/06/12	11/06/12	11/06/12	11/07/12	11/06/12	11/06/12	11/06/12	09/25/12	09/25/12	09/25/12	09/25/12	09/25/12	05/31/12	05/31/12	05/31/12	05/31/12	
PCBs																		
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																		
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	0.57	0.73	2.60	0.54 [0.49]	2.70	1.90	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	<0.10	<0.11	<0.11	<0.11 [<0.11]	<0.11	<0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	3.01	4.89	3.37	4.29 [12.1]	4.61	3.98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	144	344	225	146 [90.7]	320	278	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	<0.10	<0.11	0.12 J	<0.12 [<0.12]	0.15	0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	<0.02	0.03	0.02	0.02 [<0.02]	0.03	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	3.08	14.4	8.99	12.9 [9.63]	11.6	12.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																		
Total solids	%	88	94	87	91	88 [88]	90	91	91	90	90	90	86	95	90	90	91	

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A9-RP205 2 - 3 05/30/12	SB-A9-RP205 5 - 6 05/30/12	SB-A9-RP205 11 - 12 05/30/12	SB-A9-RP205 17 - 18 05/30/12	SB-A9-RP213 0 - 1 05/31/12	SB-A9-RP213 4 - 5 05/31/12	SB-A9-RP213 10 - 11 05/31/12	SB-A9-RP213 16 - 17 05/31/12	SB-A9-RT205 1 - 2 05/30/12	SB-A9-RT205 6 - 7 05/30/12	SB-A9-RT205 19 - 20 05/30/12	SB-A9-RV209 1 - 2 05/30/12	SB-A9-RV209 7 - 8 05/31/12	SB-A9-RV209 13 - 14 05/31/12	SB-A9-RV209 19 - 20 05/31/12	SB-A9-RV212 0 - 1 05/31/12
	Units																
Volatile Organics																	
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
1,2-Dichlorobenzene	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
1,4-Dichlorobenzene	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
2-Hexanone	ug/kg	<830	<820	<830	<780	<810	<750	<820	<770	<730	<890 J [<830]	<800	<760	<830	<890	<820	<770
Acetone	ug/kg	<2,100 J	<2,100	<2,100 J	<1,900 J	<2,000	<1,900	<2,000	<1,900	<1,800	<2,200 J [<2,100]	<2,000 J	<1,900 J	<2,100 J	<2,200 J	<2,100 J	<1,900
Bromodichloromethane	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
Bromoform	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
Carbon tetrachloride	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
Chlorobenzene	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
Chloroform (Trichloromethane)	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
Chloromethane (Methyl chloride)	ug/kg	<210	<210	<210	<190	<200	<190	<200	<190	<180	<220 J [<210]	<200	<190	<210	<220	<210	<190
cis-1,3-Dichloropropene	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
Styrene	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
trans-1,3-Dichloropropene	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
1,4-Dioxane	ug/kg	<830	<820	<830	<780	<810	<750	<820	<770	<730	<890 J [<830]	<800	<760	<830	<890	<820	<770
1,1,1-Trichloroethane	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
1,1,2,2-Tetrachloroethane	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
1,1,2-Trichloroethane	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
1,1-Dichloroethane	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
1,1-Dichloroethene	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
1,2-Dichloroethane	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
cis-1,2-Dichloroethene	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
trans-1,2-Dichloroethene	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
Trichloroethene	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
Tetrachloroethene	ug/kg	60 J	270 ^a	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
Vinyl chloride	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
Chloroethane	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
Benzene	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
Ethylbenzene	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	50 J	<83	<89	<82	<77
Toluene	ug/kg	<83	37 J	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
o-Xylene	ug/kg	<83	24 J	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	46 J	<83	<89	<82	<77
m&p-Xylene	ug/kg	<170	<160	<170	<160	<160	<150	<160	<150	<150	<180 J [<170]	<160	190	<170	<180	<160	<150
Xylene (total)	ug/kg	<253	24 J	<253	<238	<241	<225	<242	<227	<223	<269 [<253]	<240	236 J	<253	<269	<242	<227
Methyl tert butyl ether (MTBE)	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<830	<820	<830	<780	<810	<750	<820	<770	<730	<890 J [<830]	<800	<760	<830	<890	<820	<770
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<830	<820 J	<830	<780	<810 J	<750 J	<820 J	<770 J	<730 J	<890 J [<830 J]	<800	<760	<830	<890	<820	<770
1,2,4-Trichlorobenzene	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
1,2,4-Trimethylbenzene	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	58 J	<83	<89	<82	<77
1,3,5-Trimethylbenzene	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
1,2-Dichloropropane	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
1,3-Dichlorobenzene	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
Cyclohexane	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
Methyl cyclohexane	ug/kg	<83	33 J	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
Dibromochloromethane	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
Isopropyl benzene	ug/kg	<83	<82	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	<76	<83	<89	<82	<77
Naphthalene	ug/kg	7,800 ^b	180	<83	<78	<81	<75	<82	<77	<73	<89 J [<83]	<80	150	<83	<89	<82	<77

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A9-RP205 2 - 3 05/30/12	SB-A9-RP205 5 - 6 05/30/12	SB-A9-RP205 11 - 12 05/30/12	SB-A9-RP205 17 - 18 05/30/12	SB-A9-RP213 0 - 1 05/31/12	SB-A9-RP213 4 - 5 05/31/12	SB-A9-RP213 10 - 11 05/31/12	SB-A9-RP213 16 - 17 05/31/12	SB-A9-RT205 1 - 2 05/30/12	SB-A9-RT205 6 - 7 05/30/12	SB-A9-RT205 19 - 20 05/30/12	SB-A9-RV209 1 - 2 05/30/12	SB-A9-RV209 7 - 8 05/31/12	SB-A9-RV209 13 - 14 05/31/12	SB-A9-RV209 19 - 20 05/31/12	SB-A9-RV212 0 - 1 05/31/12
	Units																
Semivolatile Organics																	
2-Methyl-4,6-dinitrophenol	ug/kg	<2,000 J	<80	<40	<40	R	R	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	<2,000 J	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
2,4,6-Trichlorophenol	ug/kg	<2,000 J	<80	<40	<40	R	R	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
2,4-Dichlorophenol	ug/kg	<2,000 J	<80	<40	<40	R	R	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
2,4,5-Trichlorophenol	ug/kg	<2,000 J	<80	<40	<40	R	R	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
2,4-Dimethylphenol	ug/kg	<2,000 J	<80	<40	<40	R	R	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
2,4-Dinitrophenol	ug/kg	<2,000 J	<80	<40	<40	R	R	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
2,4-Dinitrotoluene	ug/kg	<2,000 J	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
2,6-Dinitrotoluene	ug/kg	<2,000 J	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
2-Chloronaphthalene	ug/kg	<2,000 J	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
2-Chlorophenol	ug/kg	<2,000 J	<80	<40	<40	R	R	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
2-Methylnaphthalene	ug/kg	13,000 J^b	190	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	70	<200	<40	<40	<40	<30
2-Methylphenol	ug/kg	<2,000 J	<80	<40	<40	R	R	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
2-Nitroaniline	ug/kg	<2,000 J	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
2-Nitrophenol	ug/kg	<2,000 J	<80 J	<40	<40	R	R	<40	<40	<30 J	<30 J [<u><30 J</u>]	<40 J	<200	<40	<40	<40	<30
3&4-Methylphenol	ug/kg	<3,000 J	<200	<70	<80	R	R	<80	<70	<70	<70 [<u><70</u>]	<80	<400	<80	<70	<70	<70
3,3'-Dichlorobenzidine	ug/kg	<2,000 J	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
Naphthalene	ug/kg	19,000 J^b	280	<40	<40	<100	<100	<40	<40	70	70 [60]	290	<200	<40	<40	<40	<30
3-Nitroaniline	ug/kg	<2,000 J	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
4-Bromophenyl phenyl ether	ug/kg	<2,000 J	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
4-Chloro-3-methylphenol	ug/kg	<2,000 J	<80	<40	<40	R	R	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
4-Chloroaniline	ug/kg	<2,000 J	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
4-Chlorophenyl phenyl ether	ug/kg	<2,000 J	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
4-Nitroaniline	ug/kg	<2,000 J	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
4-Nitrophenol	ug/kg	<2,000 J	<80	<40	<40	R	R	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
Anthracene	ug/kg	78,000 J^{ac}	660	<40	<40	200 S	100 S	<40	<40	<30	<30 [<u><30</u>]	<40	1,000	<40	<40	<40	<30
Acenaphthene	ug/kg	21,000 J^b	120	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	400	<40	<40	<40	<30
Acenaphthylene	ug/kg	<2,000 J	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
Acetophenone	ug/kg	<2,000 J	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
Atrazine	ug/kg	<2,000 J	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
Benzaldehyde	ug/kg	<2,000 J	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
Benzo(a)anthracene	ug/kg	19,000 J	570	<40	<40	1,100	800	<40	<40	90	<30 [<u><30</u>]	<40	2,800	<40	<40	<40	90
Benzo(a)pyrene	ug/kg	8,000 J	500	<40	<40	1,000	700	<40	<40	90	<30 [<u><30</u>]	<40	2,800	<40	<40	<40	100
Benzo(b)fluoranthene	ug/kg	21,000 J	1,000 J	<40	<40	2,000 J	1,300 J	<40	<40	160 J	50 J [<u><30</u>]	<40	4,800 J	<40	<40	<40	180 J
Benzo(g,h,i)perylene	ug/kg	3,000 J	280	<40	<40	300	200	<40	<40	60	<30 [<u><30</u>]	<40	1,400	<40	<40	<40	50
Benzo(k)fluoranthene	ug/kg	22,000 J	1,060 J	<40	<40	2,000 J	1,400 J	<40	<40	160 J	60 J [<u><30</u>]	<40	5,000 J	<40	<40	<40	190 J
Biphenyl (1,1-Biphenyl)	ug/kg	4,000 J	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
bis(2-Chloroethoxy)methane	ug/kg	<2,000 J	<80 J	<40	<40	<100	<100	<40	<40	<30 J	<30 J [<u><30 J</u>]	<40 J	<200	<40	<40	<40	<30
bis(2-Chloroethyl)ether	ug/kg	<2,000 J	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<3,000 J	<200	<70	<80	<200	<300	<80	<70	<70	<70 [<u><70</u>]	<80	<400	<80	<70	<70	<70
Butyl benzylphthalate (BBP)	ug/kg	<2,000 J	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
Caprolactam	ug/kg	<2,000 J ^{ab}	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
Carbazole	ug/kg	21,000 J^{ab}	150	<40	<40	100 S	<100	<40	<40	<30	<30 [<u><30</u>]	<40	600	<40	<40	<40	<30
Chrysene	ug/kg	20,000 J	610	<40	<40	1,200	900	<40	<40	100	40 [<u><30</u>]	<40	2,800	<40	<40	<40	110
Dibenz(a,h)anthracene	ug/kg	<3,000 J	<200	<70	<80	<200	<300	<80	<70	<70	<70 [<u><70</u>]	<80	500 X	<80	<70	<70	<70
Dibenzofuran	ug/kg	22,000 J^b	140	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	200	<40	<40	<40	<30
Diethyl phthalate	ug/kg	<3,000 J	<200	<70	<80	<200	<300	<80	<70	<70	<70 [<u><70</u>]	<80	<400	<80	<70	<70	<70
Dimethyl phthalate	ug/kg	<2,000 J	<200 B	<120 B	<190 B	<100	<100	<110 B	<90 B	<200 B	<160 B [<u><200 B</u>]	<70 B	<300 B	<50 B	<140 B	<100 B	<70 B
Di-n-butylphthalate (DBP)	ug/kg	<3,000 J	<200	<70	<80	<200	<300	<80	<70	<70	<70 [<u><70</u>]	<80	<400	<80	<70	<70	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<3,000 J	<200	<70	<80	<200	<300	<80	<70	<70	<70 [<u><70</u>]	<80	<400	<80	<70	<70	<70
Fluoranthene	ug/kg	71,000 J^b	1,140	<40	<40	2,300 S	1,600 S	<40	<40	230	80 [50]	<40	6,200^b	<40	<40	<40	190
Fluorene	ug/kg	29,000 J^b	160	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	500	<40	<40	<40	<30
Hexachlorobenzene	ug/kg	<2,000 J	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
Hexachlorobutadiene	ug/kg	<2,000 J	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
Hexachlorocyclopentadiene	ug/kg	<2,000 J	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
Hexachloroethane	ug/kg	<2,000 J	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
Indeno(1,2,3-cd)pyrene	ug/kg	3,000 J	280	<40	<40	300	200	<40	<40	60	<30 [<u><30</u>]	<40	1,400	<40	<40	<40	40
Isophorone	ug/kg	<2,000 J	<80	<40	<40	<100 J	<100 J	<40 J	<40	<30	<30 [<u><30</u>]	<40	<200	<40 J	<40 J	<40 J	<30 J
Nitrobenzene	ug/kg	<2,000 J	<80 J	<40	<40	<100	<100	<40	<40	<30 J	<30 J [<u><30 J</u>]	<40 J	<200	<40	<40	<40	<30
N-Nitrosodi-n-propylamine	ug/kg	<2,000 J	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
N-Nitrosodiphenylamine	ug/kg	<2,000 J	<80	<40	<40	<100	<100	<40	<40	<30	<30 [<u><30</u>]	<40	<200	<40	<40	<40	<30
Pentachlorophenol	ug/kg</																

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A9-RP205	SB-A9-RP205	SB-A9-RP205	SB-A9-RP205	SB-A9-RP213	SB-A9-RP213	SB-A9-RP213	SB-A9-RP213	SB-A9-RP213	SB-A9-RT205	SB-A9-RT205	SB-A9-RT205	SB-A9-RV209	SB-A9-RV209	SB-A9-RV209	SB-A9-RV209	SB-A9-RV212
		2 - 3	5 - 6	11 - 12	17 - 18	0 - 1	4 - 5	10 - 11	16 - 17	1 - 2	6 - 7	19 - 20	1 - 2	7 - 8	13 - 14	19 - 20	0 - 1	
		05/30/12	05/30/12	05/30/12	05/30/12	05/31/12	05/31/12	05/31/12	05/31/12	05/30/12	05/30/12	05/30/12	05/30/12	05/30/12	05/31/12	05/31/12	05/31/12	05/31/12
PCBs																		
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																		
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																		
Total solids	%	74	85	89	83	93	92	84	90	97	96 [96]	87	92	82	90	90	99	

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A9-RV212 5 - 6 05/31/12	SB-A9-RV212 12 - 13 05/31/12	SB-A9-RV212 18 - 19 05/31/12	SB-A9-RZ229 0 - 1 05/31/12	SB-A9-RZ229 5 - 6 05/31/12	SB-A9-RZ229 17 - 18 05/31/12	SB-A9-RZ229 27 - 28 05/31/12	SB-A9-SB227 0 - 1 05/31/12	SB-A9-SB227 7 - 8 05/31/12	SB-A9-SB227 17 - 18 05/31/12	SB-A9-SB227 27 - 28 05/31/12	SB-A9-SB232 0 - 1 05/31/12	SB-A9-SB232 10 - 11 05/31/12	SB-A9-SB232 19 - 20 05/31/12	SB-A9-SB232 27 - 28 05/31/12	SB-A9-SE229 0 - 1 06/01/12
	Units																
Volatile Organics																	
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
1,2-Dichlorobenzene	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
1,4-Dichlorobenzene	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
2-Hexanone	ug/kg	<780	<880	<780	<760	<750	<760	<810	<800	<900	<850	<740	<810	<760 [<760]	<730	<810	<840
Acetone	ug/kg	2,100	<2,200	<2,000 J	<1,900	<1,900	<1,900	<2,000	<2,000	<2,200	<2,100	<1,800	<2,000	<1,900 [<1,900]	<1,800	<2,000	2,400
Bromodichloromethane	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
Bromoform	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
Carbon tetrachloride	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
Chlorobenzene	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
Chloroform (Trichloromethane)	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
Chloromethane (Methyl chloride)	ug/kg	<190	<220	<200	<190	<190	<190	<200	<200	<220	<210	<180	<200	<190 [<190]	<180	<200	<210
cis-1,3-Dichloropropene	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
Styrene	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
trans-1,3-Dichloropropene	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
1,4-Dioxane	ug/kg	<780	<880	<780	<760	<750	<760	<810	<800	<900	<850	<740	<810	<760 [<760]	<730	<810	<840
1,1,1-Trichloroethane	ug/kg	25 J	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
1,1,2,2-Tetrachloroethane	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
1,1,2-Trichloroethane	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
1,1-Dichloroethane	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
1,1-Dichloroethene	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
1,2-Dichloroethane	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
cis-1,2-Dichloroethene	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
trans-1,2-Dichloroethene	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
Trichloroethene	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
Tetrachloroethene	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
Vinyl chloride	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
Chloroethane	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
Benzene	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
Ethylbenzene	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
Toluene	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
o-Xylene	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
m&p-Xylene	ug/kg	<160	<180	<160	<150	<150	<150	<160	<160	<180	<170	<150	<160	<150 [<150]	<150	<160	<170
Xylene (total)	ug/kg	<238	<268	<238	<226	<225	<226	<241	<240	<270	<255	<224	<241	<226 [<226]	<223	<241	<254
Methyl tert butyl ether (MTBE)	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<780	<880	<780	<760	<750	<760	<810	<800	<900	<850	<740	<810	<760 [<760]	<730	<810	<840
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<780	<880	<780	<760	<750	<760 J	<810	<800 J	<900 J	<850 J	<740 J	<810	<760 [<760]	<730	<810	<840
1,2,4-Trichlorobenzene	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
1,2,4-Trimethylbenzene	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
1,3,5-Trimethylbenzene	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
1,2-Dichloropropane	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
1,3-Dichlorobenzene	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
Cyclohexane	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
Methyl cyclohexane	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
Dibromochloromethane	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
Isopropyl benzene	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84
Naphthalene	ug/kg	<78	<88	<78	<76	<75	<76	<81	<80	<90	<85	<74	<81	<76 [<76]	<73	<81	<84

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A9-RV212 5 - 6 05/31/12	SB-A9-RV212 12 - 13 05/31/12	SB-A9-RV212 18 - 19 05/31/12	SB-A9-RZ229 0 - 1 05/31/12	SB-A9-RZ229 5 - 6 05/31/12	SB-A9-RZ229 17 - 18 05/31/12	SB-A9-RZ229 27 - 28 05/31/12	SB-A9-SB227 0 - 1 05/31/12	SB-A9-SB227 7 - 8 05/31/12	SB-A9-SB227 17 - 18 05/31/12	SB-A9-SB227 27 - 28 05/31/12	SB-A9-SB232 0 - 1 05/31/12	SB-A9-SB232 10 - 11 05/31/12	SB-A9-SB232 19 - 20 05/31/12	SB-A9-SB232 27 - 28 05/31/12	SB-A9-SE229 0 - 1 06/01/12
	Units																
Semivolatile Organics																	
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
2,4-Dichlorophenol	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
2,4-Dimethylphenol	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
2,4-Dinitrophenol	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
2-Chloronaphthalene	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
2-Chlorophenol	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
2-Methylnaphthalene	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
2-Methylphenol	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
2-Nitroaniline	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
2-Nitrophenol	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
3&4-Methylphenol	ug/kg	<80	<70	<70	<400	<100	<80	<70	<70	<80	<70	<80	<100	<200 [<100]	<70	<70	<70
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
Naphthalene	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
3-Nitroaniline	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
4-Chloroaniline	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
4-Nitroaniline	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
4-Nitrophenol	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
Anthracene	ug/kg	<40	<40	<40	400	80	<40	<40	<40	<40	<40	<40	<70	180 [190]	<40	<40	<40
Acenaphthene	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [110]	<40	<40	<40
Acenaphthylene	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
Acetophenone	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
Atrazine	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
Benzaldehyde	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
Benzo(a)anthracene	ug/kg	<40	<40	<40	2,200	500	<40	<40	<40	<40	<40	<40	<70	320 600 [410]	<40	<40	<40
Benzo(a)pyrene	ug/kg	<40	<40	<40	2,400 J	540	<40	<40	<40	<40	<40	<40	<70	350 590 J [340 J]	<40	<40	<40
Benzo(b)fluoranthene	ug/kg	<40	<40	<40	4,600 J	990 J	<40	<40	<40	<40	<40	<40	<70	640 J 1,150 J [640 J]	<40	<40	<40
Benzo(g,h,i)perylene	ug/kg	<40	<40	<40	1,300 J	310	<40	<40	<40	<40	<40	<40	<70	210 320 [180]	<40	<40	<40
Benzo(k)fluoranthene	ug/kg	<40	<40	<40	4,700 J	1,020 J	<40	<40	<40	<40	<40	<40	<70	660 J 1,180 J [650 J]	<40	<40	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<80	<70	<70	<400	<100	<80	<70	<70	<80	<70	<80	<100	400 J [<100 J]	<70	<70	110
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
Caprolactam	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
Carbazole	ug/kg	<40	<40	<40	300	<70	<40	<40	<40	<40	<40	<40	<70	100 [80]	<40	<40	<40
Chrysene	ug/kg	<40	<40	<40	2,300	510	<40	<40	<40	<40	<40	<40	<70	330 600 [390]	<40	<40	<40
Dibenz(a,h)anthracene	ug/kg	<80	<70	<70	<400 J	<100	<80	<70	<70	<80	<70	<80	<100	<200 [<100]	<70	<70	<70
Dibenzofuran	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
Diethyl phthalate	ug/kg	<80	<70	<70	<400	<100	<80	<70	<70	<80	<70	<80	<100	<200 [<100]	<70	<70	<70
Dimethyl phthalate	ug/kg	<70 B	<170 B	<80 B	<300 B	<170 B	<90 B	90 B	<90 B	<80 B	<200 B	<160 B	<210 B	<210 B [<70]	<40 B	<70 B	<80 B
Di-n-butylphthalate (DBP)	ug/kg	<80	<90 B	<70	<400	<100	<80	<70	<70	<80	<70	<80	<100	<200 [<100]	<70	<70	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<80	<70	<70	<400 J	<100	<80	<70	<70	<80	<70	<80	<100	400 J [<100 J]	<70	<70	<70
Fluoranthene	ug/kg	<40	<40	<40	4,200	930	<40	<40	<40	<40	<40	<40	<70	630 1,300 [940]	<40	<40	<40
Fluorene	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	90 [110]	<40	<40	<40
Hexachlorobenzene	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
Hexachlorobutadiene	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
Hexachlorocyclopentadiene	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
Hexachloroethane	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	<40	1,200 J	280	<40	<40	<40	<40	<40	<40	<70	190 290 [170]	<40	<40	<40
Isophorone	ug/kg	<40 J	<40 J	<40 J	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
Nitrobenzene	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
N-Nitrosodiphenylamine	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
Pentachlorophenol	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
Phenanthrene	ug/kg	<40	<40	<40	1,700	350	<40	<40	<40	<40	<40	<40	<70	300 760 [840]	<40	<40	<40
Phenol	ug/kg	<40	<40	<40	<200	<70	<40	<40	<40	<40	<40	<40	<70	<80 [<70]	<40	<40	<40
Pyrene	ug/kg	<40	<40	<40	4,200	910	<40	<40	<40	<40	<40	<40	<70	620 1,190 [880]	<40	<40	<40

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A9-RV212	SB-A9-RV212	SB-A9-RV212	SB-A9-RZ229	SB-A9-RZ229	SB-A9-RZ229	SB-A9-RZ229	SB-A9-RZ229	SB-A9-SB227	SB-A9-SB227	SB-A9-SB227	SB-A9-SB227	SB-A9-SB232	SB-A9-SB232	SB-A9-SB232	SB-A9-SB232	SB-A9-SE229
		5 - 6	12 - 13	18 - 19	0 - 1	5 - 6	17 - 18	27 - 28	0 - 1	7 - 8	17 - 18	27 - 28	0 - 1	10 - 11	19 - 20	27 - 28	0 - 1	
		05/31/12	05/31/12	05/31/12	05/31/12	05/31/12	05/31/12	05/31/12	05/31/12	05/31/12	05/31/12	05/31/12	05/31/12	05/31/12	05/31/12	05/31/12	06/01/12	
PCBs																		
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																		
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																		
Total solids	%	86	90	90	95	94	87	91	95	82	91	83	91	82 [89]	90	92	91	

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A9-SE229 9 - 10 06/01/12	SB-A9-SE229 16 - 17 06/01/12	SB-A9-SE229 27 - 28 06/01/12	SB-A10-PJ230 0 - 1 09/24/12	SB-A10-PJ230 6 - 7 09/24/12	SB-A10-PJ230 16 - 17 09/24/12	SB-A10-PJ230 29 - 30 09/24/12	SB-A10-PJ232 1 - 2 05/30/12	SB-A10-PJ232 5 - 6 05/30/12	SB-A10-PJ232 16 - 17 06/01/12	SB-A10-PM227 0 - 1 09/24/12	SB-A10-PM227 6 - 7 09/24/12	SB-A10-PM227 19 - 20 09/24/12	SB-A10-PM227 29 - 30 09/24/12	SB-A10-PM230 0 - 1 06/01/12
	Units															
Volatile Organics																
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
1,2-Dichlorobenzene	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
1,4-Dichlorobenzene	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
2-Hexanone	ug/kg	<830	<940	<780	NA	NA	NA	NA	<920	<770	<780	NA	NA	NA	NA	<850
Acetone	ug/kg	<2,100	<2,300	<2,000	NA	NA	NA	NA	<2,300	<1,900	<1,900	NA	NA	NA	NA	2,300
Bromodichloromethane	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
Bromoform	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
Carbon tetrachloride	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
Chlorobenzene	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
Chloroform (Trichloromethane)	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
Chloromethane (Methyl chloride)	ug/kg	<210	<230	<200	NA	NA	NA	NA	<230	<190	<190	NA	NA	NA	NA	<210
cis-1,3-Dichloropropene	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
Styrene	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
trans-1,3-Dichloropropene	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
1,4-Dioxane	ug/kg	<830	<940	<780	NA	NA	NA	NA	<920	<770	<780	NA	NA	NA	NA	<850
1,1,1-Trichloroethane	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
1,1,2,2-Tetrachloroethane	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
1,1,2-Trichloroethane	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
1,1-Dichloroethane	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
1,1-Dichloroethene	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
1,2-Dichloroethane	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
cis-1,2-Dichloroethene	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
trans-1,2-Dichloroethene	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
Trichloroethene	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
Tetrachloroethene	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
Vinyl chloride	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
Chloroethane	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
Benzene	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	8.9 J	<78	NA	NA	NA	NA	<85
Ethylbenzene	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	22 J	<78	NA	NA	NA	NA	<85
Toluene	ug/kg	<83	<94	<78	NA	NA	NA	NA	12 J	47 J	<78	NA	NA	NA	NA	<85
o-Xylene	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	46 J	<78	NA	NA	NA	NA	<85
m&p-Xylene	ug/kg	<170	<190	<160	NA	NA	NA	NA	<180	<150	<160	NA	NA	NA	NA	<170
Xylene (total)	ug/kg	<253	<284	<238	NA	NA	NA	NA	<272	46 J	<238	NA	NA	NA	NA	<255
Methyl tert butyl ether (MTBE)	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<830	<940	<780	NA	NA	NA	NA	<920	<770	<780	NA	NA	NA	NA	<850
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<830	<940	<780	NA	NA	NA	NA	<920 J	<770 J	<780	NA	NA	NA	NA	<850
1,2,4-Trichlorobenzene	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
1,2,4-Trimethylbenzene	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	56 J	<78	NA	NA	NA	NA	<85
1,3,5-Trimethylbenzene	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
1,2-Dichloropropane	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
1,3-Dichlorobenzene	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
Cyclohexane	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	39 J	<78	NA	NA	NA	NA	<85
Methyl cyclohexane	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	56 J	<78	NA	NA	NA	NA	<85
Dibromochloromethane	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
Isopropyl benzene	ug/kg	<83	<94	<78	NA	NA	NA	NA	<92	<77	<78	NA	NA	NA	NA	<85
Naphthalene	ug/kg	<83	<94	<78	NA	NA	NA	NA	44 J	240	<78	NA	NA	NA	NA	<85

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A9-SE229 9 - 10 06/01/12	SB-A9-SE229 16 - 17 06/01/12	SB-A9-SE229 27 - 28 06/01/12	SB-A10-PJ230 0 - 1 09/24/12	SB-A10-PJ230 6 - 7 09/24/12	SB-A10-PJ230 16 - 17 09/24/12	SB-A10-PJ230 29 - 30 09/24/12	SB-A10-PJ232 1 - 2 05/30/12	SB-A10-PJ232 5 - 6 05/30/12	SB-A10-PJ232 16 - 17 06/01/12	SB-A10-PM227 0 - 1 09/24/12	SB-A10-PM227 6 - 7 09/24/12	SB-A10-PM227 19 - 20 09/24/12	SB-A10-PM227 29 - 30 09/24/12	SB-A10-PM230 0 - 1 06/01/12
	Units															
Semivolatile Organics																
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<40	R	<100	<100	<100	R	<200	<40	R	<100 [<100]	<100	<100	<300
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	<40	<40	<40	<200 J	<100 J	<100 J	<100 J	<70	<200	<40	<200 J	<100 [<100 J]	<100 J	<100 J	<300
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	R	<100	<100	<100	R	<200	<40	R	<100 [<100]	<100	<100	<300
2,4-Dichlorophenol	ug/kg	<40	<40	<40	R	<100	<100	<100	R	<200	<40	R	<100 [<100]	<100	<100	<300
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	R	<100	<100	<100	R	<200	<40	R	<100 [<100]	<100	<100	<300
2,4-Dimethylphenol	ug/kg	<40	<40	<40	R	<100 J	<100 J	<100 J	R	<200	<40	R	<100 J [<100 J]	<100 J	<100 J	<300
2,4-Dinitrophenol	ug/kg	<40	<40	<40	R	<100	<100	<100	R	<200	<40	R	<100 [<100]	<100	<100	<300
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<200	<100	<100	<100	<70	<200	<40	<200	<100 [<100]	<100	<100	<300
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<200	<100	<100	<100	<70	<200	<40	<200	<100 [<100]	<100	<100	<300
2-Chloronaphthalene	ug/kg	<40	<40	<40	<200	<100	<100	<100	<70	<200	<40	<200	<100 [<100]	<100	<100	<300
2-Chlorophenol	ug/kg	<40	<40	<40	R	<100	<100	<100	R	<200	<40	R	<100 [<100]	<100	<100	<300
2-Methylnaphthalene	ug/kg	<40	<40	<40	<200	<100	<100	<100	100	<200	<40	<200	<100 [<100]	<100	<100	<300
2-Methylphenol	ug/kg	<40	<40	<40	R	<100	<100	<100	R	<200	<40	R	<100 [<100]	<100	<100	<300
2-Nitroaniline	ug/kg	<40	<40	<40	<200	<100	<100	<100	<70	<200	<40	<200	<100 [<100]	<100	<100	<300
2-Nitrophenol	ug/kg	<40	<40	<40	R	<100	<100	<100	R	<200	<40	R	<100 [<100]	<100	<100	<300
3&4-Methylphenol	ug/kg	<80	<80	<70	R	<200	<200	<200	<100	<300	<70	R	<200 [<200]	<200	<200	<600
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<200	<100	<100	<100	<70	<200	<40	<200	<100 [<100]	<100	<100	<300
Naphthalene	ug/kg	<40	<40	<40	<200	<100	<100	<100	80	<200	<40	<200	<100 [<100]	<100	<100	<300
3-Nitroaniline	ug/kg	<40	<40	<40	<200	<100	<100	<100	<70	<200	<40	<200	<100 [<100]	<100	<100	<300
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<200	<100	<100	<100	<70	<200	<40	<200	<100 [<100]	<100	<100	<300
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	R	<100	<100	<100	R	<200	<40	R	<100 [<100]	<100	<100	<300
4-Chloroaniline	ug/kg	<40	<40	<40	<200 J	<100 J	<100 J	<100 J	<70	<200	<40	<200 J	<100 [<100 J]	<100 J	<100 J	<300
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<200	<100	<100	<100	<70	<200	<40	<200	<100 [<100]	<100	<100	<300
4-Nitroaniline	ug/kg	<40	<40	<40	<200	<100	<100	<100	<70	<200	<40	<200	<100 [<100]	<100	<100	<300
4-Nitrophenol	ug/kg	<40	<40	<40	R	<100	<100	<100	R	<200	<40	R	<100 [<100]	<100	<100	<300
Anthracene	ug/kg	<40	<40	<40	<200	<100	<100	<100	200 S	300	<40	300 S	<100 [<100]	<100	<100	400
Acenaphthene	ug/kg	<40	<40	<40	<200	<100	<100	<100	80	<200	<40	<200	<100 [<100]	<100	<100	<300
Acenaphthylene	ug/kg	<40	<40	<40	<200	<100	<100	<100	<70	<200	<40	<200	<100 [<100]	<100	<100	<300
Acetophenone	ug/kg	<40	<40	<40	<200 J	<100 J	<100 J	<100 J	<70	<200	<40	<200 J	<100 [<100 J]	<100 J	<100 J	<300
Atrazine	ug/kg	<40	<40	<40	<200	<100	<100	<100	<70	<200	<40	<200	<100 [<100]	<100	<100	<300
Benzaldehyde	ug/kg	<40	<40	<40	<200	<100	<100	<100	<70	<200	<40	<200	<100 [<100]	<100	<100	<300
Benzo(a)anthracene	ug/kg	<40	<40	<40	500	<100	<100	<100	980	800	<40	1,600	<100 [<100]	<100	<100	2,000
Benzo(a)pyrene	ug/kg	<40	<40	<40	500	<100	<100	<100	930	600	<40	1,500	<100 [<100]	<100	<100	2,200
Benzo(b)fluoranthene	ug/kg	<40	<40	<40	900 J	<100	<100	<100	1,870 J	1,100 J	<40	2,800 J	<100 [<100]	<100	<100	4,200 J
Benzo(g,h,i)perylene	ug/kg	<40	<40	<40	300	<100	<100	<100	430	300	<40	800	<100 [<100]	<100	<100	1,300
Benzo(k)fluoranthene	ug/kg	<40	<40	<40	900 J	<100	<100	<100	1,930 J	1,100 J	<40	3,100 J	<100 [<100]	<100	<100	4,300 J
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40	<200	<100	<100	<100	<70	<200	<40	<200	<100 [<100]	<100	<100	<300
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<40	<200	<100	<100	<100	<70	<200	<40	<200	<100 [<100]	<100	<100	<300
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<40	<200 J	<100 J	<100 J	<100 J	<70	<200	<40	<200 J	<100 [<100 J]	<100 J	<100 J	<300
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<80	<80	<70	<400 J	<200 J	<200 J	<200 J	<200 B	<300	<70	23,800 J	<200 [<200 J]	<200 J	<200 J	<600
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<40	<200	<100	<100	<100	<70	<200	<40	<200	<100 [<100]	<100	<100	<300
Caprolactam	ug/kg	<40	<40	<40	<200	<100	<100	<100	<70	<200	<40	<200	<100 [<100]	<100	<100	<300
Carbazole	ug/kg	<40	<40	<40	<200	<100	<100	<100	110 S	<200	<40	200 S	<100 [<100]	<100	<100	<300
Chrysene	ug/kg	<40	<40	<40	600	<100	<100	<100	1,020	700	<40	1,700	<100 [<100]	<100	<100	2,200
Dibenz(a,h)anthracene	ug/kg	<80	<80	<70	<400	<200	<200	<200	200	<300	<70	<400	<200 [<200]	<200	<200	<600
Dibenzofuran	ug/kg	<40	<40	<40	<200	<100	<100	<100	<70	<200	<40	<200	<100 [<100]	<100	<100	<300
Diethyl phthalate	ug/kg	<80	<80	<70	<400	<200	<200	<200	<100	<300	<70	<400	<200 [<200]	<200	<200	<600
Dimethyl phthalate	ug/kg	<40 B	<50 B	<280 B	<200	<100	<100	<100	220	<200 B	<140 B	<200	<100 [<100]	<100	<100	<300
Di-n-butylphthalate (DBP)	ug/kg	<80	<80	<70	<400 J	<200 J	<200 J	<200 J	<100	<300	<70	<400 J	<200 [<200 J]	<200 J	<200 J	<600
Di-n-octyl phthalate (DnOP)	ug/kg	<80	<80	<70	<400 J	<200 J	<200 J	<200 J	<100	<300	<70	<400 J	<200 [<200 J]	<200 J	<200 J	<600
Fluoranthene	ug/kg	<40	<40	<40	900 S	<100	<100	<100	1,760 S	1,600	<40	2,800 S	<100 [<100]	<100	<100	3,700
Fluorene	ug/kg	<40	<40	<40	<200	<100	<100	<100	100	200	<40	<200	<100 [<100]	<100	<100	<300
Hexachlorobenzene	ug/kg	<40	<40	<40	<200	<100	<100	<100	<70	<200	<40	<200	<100 [<100]	<100	<100	<300
Hexachlorobutadiene	ug/kg	<40	<40	<40	<200	<100	<100	<100	<70	<200	<40	<200	<100 [<100]	<100	<100	<300
Hexachlorocyclopentadiene	ug/kg	<40	<40	<40	<200	<100	<100	<100	<70	<200	<40	<200	<100 [<100]	<100	<100	<300
Hexachloroethane	ug/kg	<40	<40	<40	<200 J	<100 J	<100 J	<100 J	<70	<200	<40	<200 J	<100 [<100 J]	<100 J	<100 J	<300
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	<40	300	<100	<100	<100	410	300	<40	700	<100 [<100]	<100	<100	1,200
Isophorone	ug/kg	<40	<40	<40	<200	<100	<100	<100	<70	<200	<40	<200	<100 [<100]	<100	<100	<300
Nitrobenzene	ug/kg	<40	<40	<40	<200	<100	<100	<100	<70	<200	<40	<200	<100 [<100]	<100	<100	<300
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<40	<200	<100	<100	<100	<70	<200	<40	<200	<100 [<100]	<100	<100	<300
N-Nitrosodiphenylamine	ug/kg	<40	<40	<40	<200	<100	<100	<100	<70	<200	<40	<200	<100 [<100]	<100	<100	<300
Pentachlorophenol	ug/kg	<40	<40	<40	R	<100	<100	<100	R	<200	<40	R	<100 [<100]	<100	<100	<300
Phenanthrene	ug/kg	<40	<40	<40	400 S	<100	<100	<100	790 S	1,000	<40	1,200 S	<100 [<100]	<100	<100	1,500
Phenol	ug/kg	<40	<40	<40	R	<100	<100	<100	R	<200	<40	R	<100 [<100]	<100	<100	<300
Pyrene	ug/kg	<40	<40	<40	1,100	<100	<100	<100	1,940	1,500	<40	3,300	<100 [<100]	<100	<100	3,400

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A9-SE229	SB-A9-SE229	SB-A9-SE229	SB-A10-PJ230	SB-A10-PJ230	SB-A10-PJ230	SB-A10-PJ230	SB-A10-PJ232	SB-A10-PJ232	SB-A10-PJ232	SB-A10-PJ232	SB-A10-PM227	SB-A10-PM227	SB-A10-PM227	SB-A10-PM227	SB-A10-PM230
		9 - 10	16 - 17	27 - 28	0 - 1	6 - 7	16 - 17	29 - 30	1 - 2	5 - 6	16 - 17	0 - 1	6 - 7	19 - 20	29 - 30	0 - 1	
		06/01/12	06/01/12	06/01/12	09/24/12	09/24/12	09/24/12	09/24/12	05/30/12	05/30/12	06/01/12	09/24/12	09/24/12	09/24/12	09/24/12	06/01/12	
PCBs																	
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																	
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																	
Total solids	%	86	85	91	93	90	90	87	92	85	89	91	88 [88]	90	88	87	

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A10-PM230 7 - 8 06/01/12	SB-A10-PM230 17 - 18 06/01/12	SB-A10-PM232 1 - 2 05/30/12	SB-A10-PM232 6 - 7 05/30/12	SB-A10-PM232 17 - 18 05/30/12	SB-A10-PM236 1 - 2 06/01/12	SB-A10-PM236 5 - 6 06/01/12	SB-A10-PM236 14 - 15 06/01/12	SB-A10-PP230 1 - 2 09/24/12	SB-A10-PP230 6 - 7 09/24/12	SB-A10-PP230 12 - 13 09/24/12	SB-A10-PP230 29 - 30 09/24/12	SB-A10-PP232 1 - 2 06/01/12	SB-A10-PP232 5 - 6 06/01/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
1,2-Dichlorobenzene	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
1,4-Dichlorobenzene	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
2-Hexanone	ug/kg	<640	<850	<810	<830	<770	<800	<900	<760	NA	NA	NA	NA	<790	<860
Acetone	ug/kg	2,700	3,100	<2,000	<2,100	2,300	<2,000	3,900 B	9,200 B	NA	NA	NA	NA	<2,000	<2,200
Bromodichloromethane	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
Bromoform	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
Carbon tetrachloride	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
Chlorobenzene	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
Chloroform (Trichloromethane)	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
Chloromethane (Methyl chloride)	ug/kg	<160	<210	<200	<210	<190	<200	<230	<190	NA	NA	NA	NA	<200	<220
cis-1,3-Dichloropropene	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
Styrene	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
trans-1,3-Dichloropropene	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
1,4-Dioxane	ug/kg	<640	<850	<810	<830	<770	<800	<900	<760	NA	NA	NA	NA	<790	<860
1,1,1-Trichloroethane	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
1,1,2,2-Tetrachloroethane	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
1,1,2-Trichloroethane	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
1,1-Dichloroethane	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
1,1-Dichloroethene	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
1,2-Dichloroethane	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
cis-1,2-Dichloroethene	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
trans-1,2-Dichloroethene	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
Trichloroethene	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
Tetrachloroethene	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
Vinyl chloride	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
Chloroethane	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
Benzene	ug/kg	<64	<85	<81	9.9 J	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
Ethylbenzene	ug/kg	<64	<85	<81	31 J	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
Toluene	ug/kg	9.7 J	<85	14 J	74 J	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
o-Xylene	ug/kg	17 J	<85	19 J	89	<77	<80	<90	<76	NA	NA	NA	NA	16 J	<86
m&p-Xylene	ug/kg	<130	<170	<160	<170	<150	<160	<180	<150	NA	NA	NA	NA	<160	<170
Xylene (total)	ug/kg	17 J	<255	19 J	89	<227	<240	<270	<226	NA	NA	NA	NA	16 J	<256
Methyl tert butyl ether (MTBE)	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<640	<850	<810	<830	<770	<800	<900	<760	NA	NA	NA	NA	<790	<860
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<640	<850	<810 J	<830 J	<770 J	<800	<900	<760	NA	NA	NA	NA	<790	<860
1,2,4-Trichlorobenzene	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
1,2,4-Trimethylbenzene	ug/kg	<64	<85	<81	95 J	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
1,3,5-Trimethylbenzene	ug/kg	<64	<85	<81	27 J	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
1,2-Dichloropropane	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
1,3-Dichlorobenzene	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
Cyclohexane	ug/kg	<64	<85	<81	110 J	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
Methyl cyclohexane	ug/kg	29 J	<85	<81	210	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
Dibromochloromethane	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
Isopropyl benzene	ug/kg	<64	<85	<81	<83	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86
Naphthalene	ug/kg	<64	<85	43 J	160	<77	<80	<90	<76	NA	NA	NA	NA	<79	<86

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A10-PM230 7 - 8 06/01/12	SB-A10-PM230 17 - 18 06/01/12	SB-A10-PM232 1 - 2 05/30/12	SB-A10-PM232 6 - 7 05/30/12	SB-A10-PM232 17 - 18 05/30/12	SB-A10-PM236 1 - 2 06/01/12	SB-A10-PM236 5 - 6 06/01/12	SB-A10-PM236 14 - 15 06/01/12	SB-A10-PP230 1 - 2 09/24/12	SB-A10-PP230 6 - 7 09/24/12	SB-A10-PP230 12 - 13 09/24/12	SB-A10-PP230 29 - 30 09/24/12	SB-A10-PP232 1 - 2 06/01/12	SB-A10-PP232 5 - 6 06/01/12
	Units														
Semivolatile Organics															
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	R	<100 [<100]	<100	<100	<200	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100 J]	<100	<100	<200	<40
2,4,6-Trichlorophenol	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	R	<100 [<100]	<100	<100	<200	<40
2,4-Dichlorophenol	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	R	<100 [<100]	<100	<100	<200	<40
2,4,5-Trichlorophenol	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	R	<100 [<100]	<100	<100	<200	<40
2,4-Dimethylphenol	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	R	<100 [<100 J]	<100	<100	<200	<40
2,4-Dinitrophenol	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	R	<100 [<100]	<100	<100	<200	<40
2,4-Dinitrotoluene	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
2,6-Dinitrotoluene	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
2-Chloronaphthalene	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
2-Chlorophenol	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	R	<100 [<100]	<100	<100	<200	<40
2-Methylnaphthalene	ug/kg	<40	<40	200	700	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
2-Methylphenol	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	R	<100 [<100]	<100	<100	<200	<40
2-Nitroaniline	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
2-Nitrophenol	ug/kg	<40	<40	<100 J	<100 J	<40 J	<200	<40	<30	R	<100 [<100]	<100	<100	<200	<40
3&4-Methylphenol	ug/kg	<70	<80	<300	<200	<70	<300	<80	<70	R	<200 [<200]	<200	<200	<300	<80
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
Naphthalene	ug/kg	<40	<40	<100	400	60	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
3-Nitroaniline	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
4-Chloro-3-methylphenol	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	R	<100 [<100]	<100	<100	<200	<40
4-Chloroaniline	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100 J]	<100	<100	<200	<40
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
4-Nitroaniline	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
4-Nitrophenol	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	R	<100 [<100]	<100	<100	<200	<40
Anthracene	ug/kg	<40	<40	300 S	100	<40	<200	<40	<30	200 S	<100 [<100]	<100	<100	200	<40
Acenaphthene	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
Acenaphthylene	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
Acetophenone	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100 J]	<100	<100	<200	<40
Atrazine	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
Benzaldehyde	ug/kg	<40	<40	<100	300	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
Benzo(a)anthracene	ug/kg	<40	<40	1,400	400	<40	300	60	<30	800	<100 [<100]	<100	<100	1,300	<40
Benzo(a)pyrene	ug/kg	<40	<40	1,300	400	<40	300	50	<30	700	<100 [<100]	<100	<100	1,400	<40
Benzo(b)fluoranthene	ug/kg	<40	<40	2,700 J	700 J	<40	600 J	100 J	<30	1,400 J	<100 [<100]	<100	<100	2,400 J	<40
Benzo(g,h,i)perylene	ug/kg	<40	<40	600	200	<40	200	40	<30	300	<100 [<100]	<100	<100	1,000	<40
Benzo(k)fluoranthene	ug/kg	<40	<40	2,700 J	700 J	<40	600 J	100 J	<30	1,500 J	<100 [<100]	<100	<100	2,500 J	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<100 J	<100 J	<40 J	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100 J]	<100	<100	<200	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70	<80	<300	<200	<70	<300	<80	<70	<400	<200 [<200 J]	<200	<200	<300	<80
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
Caprolactam	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
Carbazole	ug/kg	<40	<40	200 S	<100	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	200	<40
Chrysene	ug/kg	<40	<40	1,500	400	<40	300	50	<30	800	<100 [<100]	<100	<100	1,400	<40
Dibenz(a,h)anthracene	ug/kg	<70	<80	<300	<200	<70	<300	<80	<70	<400	<200 [<200]	<200	<200	<300	<80
Dibenzofuran	ug/kg	<40	<40	<100	200	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
Diethyl phthalate	ug/kg	<70	<80	<300	<200	<70	<300	<80	<70	<400	<200 [<200]	<200	<200	<300	<80
Dimethyl phthalate	ug/kg	<180 B	<160 B	<200 B	<200 B	<460 BJ	<400 B	<180 B	<130 B	<200	<100 [<100]	<100	<100	<300 B	<50 B
Di-n-butylphthalate (DBP)	ug/kg	<70	<80	<300	<200	<70	500 B	<80	<140 B	<400	<200 [<200 J]	<200	<200	<300	<80
Di-n-octyl phthalate (DnOP)	ug/kg	<70	<80	<300	<200	<70	<300	<80	<70	<400	<200 [<200 J]	<200	<200	<300	<80
Fluoranthene	ug/kg	50	<40	2,800 S	800	<40	600	90	<30	1,500 S	<100 [<100]	<100	<100	2,400	<40
Fluorene	ug/kg	<40	<40	200	<100	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
Hexachlorobenzene	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
Hexachlorobutadiene	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
Hexachlorocyclopentadiene	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
Hexachloroethane	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100 J]	<100	<100	<200	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	600	200	<40	200	40	<30	300	<100 [<100]	<100	<100	1,000	<40
Isophorone	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
Nitrobenzene	ug/kg	<40	<40	<100 J	<100 J	<40 J	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
N-Nitrosodiphenylamine	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	<200	<100 [<100]	<100	<100	<200	<40
Pentachlorophenol	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	R	<100 [<100]	<100	<100	<200	<40
Phenanthrene	ug/kg	40	<40	1,300 S	600	<40	200	<40	<30	700 S	<100 [<100]	<100	<100	1,000	<40
Phenol	ug/kg	<40	<40	<100	<100	<40	<200	<40	<30	R	<100 [<100]	<100	<100	<200	<40
Pyrene	ug/kg	50	<40	2,900	800	<40	500	80	<30	1,600	<100 [<100]	<100	<100	2,100	<40

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	SB-A10-PM230	SB-A10-PM230	SB-A10-PM232	SB-A10-PM232	SB-A10-PM232	SB-A10-PM236	SB-A10-PM236	SB-A10-PM236	SB-A10-PP230	SB-A10-PP230	SB-A10-PP230	SB-A10-PP230	SB-A10-PP232	SB-A10-PP232
		7 - 8	17 - 18	1 - 2	6 - 7	17 - 18	1 - 2	5 - 6	14 - 15	1 - 2	6 - 7	12 - 13	29 - 30	1 - 2	5 - 6
		06/01/12	06/01/12	05/30/12	05/30/12	05/30/12	06/01/12	06/01/12	06/01/12	09/24/12	09/24/12	09/24/12	09/24/12	06/01/12	06/01/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Total solids	%	91	87	93	90	90	88	84	99	89	89 [88]	90	88	87	85

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A10-PP232 15 - 16 06/01/12	SB-P6-KJ266 1 - 2 11/30/12	SB-P6-KJ266 25 - 26 11/30/12	VAP-A5.6-ND208 1 - 2 05/17/12	VAP-A5.6-ND208 10 - 11 05/17/12	VAP-A5.6-ND208 17 - 18 05/17/12	VAP-A5.6-ND208 24 - 25 05/17/12	VAP-A5.6-NF255 1 - 2 05/22/12	VAP-A5.6-NF255 9 - 10 05/22/12	VAP-A5.6-NF255 21 - 22 05/22/12	VAP-A5.6-NF255 31 - 32 05/22/12	VAP-A5.6-NR227 1 - 2 05/18/12	VAP-A5.6-NR227 8 - 9 05/18/12	VAP-A5.6-NR227 15 - 16 05/21/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
1,2-Dichlorobenzene	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
1,4-Dichlorobenzene	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
2-Hexanone	ug/kg	<830	NA	NA	<730	<740	<750	<780	<730	<760	<730	<800	<800	<760	<840
Acetone	ug/kg	13,000 B	NA	NA	<1,800 J	<1,800 J	<1,900 J	<1,900 J	<1,800	<1,900	<1,800	<2,000	<2,000 J	<1,900 J	<2,100
Bromodichloromethane	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
Bromoform	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
Carbon tetrachloride	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
Chlorobenzene	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
Chloroform (Trichloromethane)	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
Chloromethane (Methyl chloride)	ug/kg	<210	NA	NA	<180	<180	<190	<190	<180	<190	<180	<200	<200	<190	<210
cis-1,3-Dichloropropene	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
Styrene	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
trans-1,3-Dichloropropene	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
1,4-Dioxane	ug/kg	<830	NA	NA	<730	<740	<750	<780	<730	<760	<730	<800	<800	<760	<840
1,1,1-Trichloroethane	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
1,1,2,2-Tetrachloroethane	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
1,1,2-Trichloroethane	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
1,1-Dichloroethane	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
1,1-Dichloroethene	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
1,2-Dichloroethane	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
cis-1,2-Dichloroethene	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
trans-1,2-Dichloroethene	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
Trichloroethene	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
Tetrachloroethene	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
Vinyl chloride	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
Chloroethane	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
Benzene	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
Ethylbenzene	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
Toluene	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	12 J	<76	<84
o-Xylene	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
m&p-Xylene	ug/kg	<170	NA	NA	<150	<150	<150	<160	<150	<150	<150	<160	<160	<150	<170
Xylene (total)	ug/kg	<253	NA	NA	<223	<224	<225	<238	<223	<226	<223	<240	<240	<226	<254
Methyl tert butyl ether (MTBE)	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<830	NA	NA	<730	<740	<750	<780	<730	<760	<730	<800	<800	<760	<840
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<830	NA	NA	<730	<740	<750	<780	<730	<760	<730	<800	<800	<760	<840
1,2,4-Trichlorobenzene	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
1,2,4-Trimethylbenzene	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
1,3,5-Trimethylbenzene	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
1,2-Dichloropropane	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
1,3-Dichlorobenzene	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
Cyclohexane	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
Methyl cyclohexane	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
Dibromochloromethane	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
Isopropyl benzene	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84
Naphthalene	ug/kg	<83	NA	NA	<73	<74	<75	<78	<73	<76	<73	<80	<80	<76	<84

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A10-PP232 15 - 16 06/01/12	SB-P6-KJ266 1 - 2 11/30/12	SB-P6-KJ266 25 - 26 11/30/12	VAP-A5.6-ND208 1 - 2 05/17/12	VAP-A5.6-ND208 10 - 11 05/17/12	VAP-A5.6-ND208 17 - 18 05/17/12	VAP-A5.6-ND208 24 - 25 05/17/12	VAP-A5.6-NF255 1 - 2 05/22/12	VAP-A5.6-NF255 9 - 10 05/22/12	VAP-A5.6-NF255 21 - 22 05/22/12	VAP-A5.6-NF255 31 - 32 05/22/12	VAP-A5.6-NR227 1 - 2 05/18/12	VAP-A5.6-NR227 8 - 9 05/18/12	VAP-A5.6-NR227 15 - 16 05/21/12
	Units														
Semivolatile Organics															
2-Methyl-4,6-dinitrophenol	ug/kg	<40	NA	NA	<40 J	<40 J	<40 J	<40 J	<30	<40	<40	<40	<2,000 J	<600 J	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30 J	<40 J	<40 J	<40 J	<2,000 J	<600 J	<40
2,4,6-Trichlorophenol	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
2,4-Dichlorophenol	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
2,4,5-Trichlorophenol	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
2,4-Dimethylphenol	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
2,4-Dinitrophenol	ug/kg	<40	NA	NA	<40 J	<40 J	<40 J	<40 J	<30	<40	<40	<40	<2,000 J	<600 J	<40 J
2,4-Dinitrotoluene	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
2,6-Dinitrotoluene	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
2-Chloronaphthalene	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
2-Chlorophenol	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
2-Methylnaphthalene	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
2-Methylphenol	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
2-Nitroaniline	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
2-Nitrophenol	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
3&4-Methylphenol	ug/kg	<70	NA	NA	<80	<70	<80	<70	<70	<80	<70	<80	<4,000 J	<1,000 J	<70
3,3'-Dichlorobenzidine	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
Naphthalene	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
3-Nitroaniline	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
4-Bromophenyl phenyl ether	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
4-Chloro-3-methylphenol	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
4-Chloroaniline	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
4-Chlorophenyl phenyl ether	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
4-Nitroaniline	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
4-Nitrophenol	ug/kg	<40	NA	NA	<40 J	<40 J	<40 J	<40 J	<30	<40	<40	<40	<2,000 J	<600 J	<40
Anthracene	ug/kg	<40	NA	NA	<40 J	<40 J	<40 J	<40 J	<30	<40	<40	<40	<2,000 J	<600 J	<40
Acenaphthene	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
Acenaphthylene	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
Acetophenone	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
Atrazine	ug/kg	<40	NA	NA	<40 J	<40 J	<40 J	<40 J	<30	<40	<40	<40	<2,000 J	<600 J	<40
Benzaldehyde	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
Benzo(a)anthracene	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
Benzo(a)pyrene	ug/kg	<40	NA	NA	<40 J	<40 J	<40 J	<40 J	<30	<40	<40	<40	2,000 J	<600 J	<40
Benzo(b)fluoranthene	ug/kg	<40	NA	NA	<40 J	<40 J	<40 J	<40 J	<30	<40	<40	<40	3,000 J	<600 J	<40
Benzo(g,h,i)perylene	ug/kg	<40	NA	NA	<40 J	<40 J	<40 J	<40 J	<30	<40	<40	<40	<2,000 J	<600 J	<40
Benzo(k)fluoranthene	ug/kg	<40	NA	NA	<40 J	<40 J	<40 J	<40 J	<30	<40	<40	<40	3,000 J	<600 J	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
bis(2-Chloroethoxy)methane	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
bis(2-Chloroethyl)ether	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70	NA	NA	<80	<70	<80	<70	<70	<80	70	<80	<4,000 J	<1,000 J	<70
Butyl benzylphthalate (BBP)	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
Caprolactam	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
Carbazole	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
Chrysene	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
Dibenz(a,h)anthracene	ug/kg	<70	NA	NA	<80	<70	<80	<70	<70	<80	<70	<80	<4,000 J	<1,000 J	<70
Dibenzofuran	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
Diethyl phthalate	ug/kg	<70	NA	NA	<80	<70	<80	<70	<70	<80	<70	<80	<4,000 J	<1,000 J	<70
Dimethyl phthalate	ug/kg	<230 B	NA	NA	<110 B	<50 B	<70 B	<70 B	<30	60 B	60 B	70 B	<2,000 J	<600 J	<160 B
Di-n-butylphthalate (DBP)	ug/kg	<70	NA	NA	<80	<70	<80	<70	<70	<80	<70	<80	<4,000 J	<1,000 J	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<70	NA	NA	<80	<70	<80	<70	<70	<80	<70	<80	<4,000 J	<1,000 J	<70
Fluoranthene	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
Fluorene	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
Hexachlorobenzene	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
Hexachlorobutadiene	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
Hexachlorocyclopentadiene	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40 J
Hexachloroethane	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
Isophorone	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
Nitrobenzene	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30 J	<40 J	<40 J	<40 J	<2,000 J	<600 J	<40
N-Nitrosodi-n-propylamine	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
N-Nitrosodiphenylamine	ug/kg	<40	NA	NA	<40 J	<40 J	<40 J	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
Pentachlorophenol	ug/kg	<40	NA	NA	<40 J	<40 J	<40 J	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
Phenanthrene	ug/kg	<40	NA	NA	<40 J	<40 J	<40 J	<40 J	<30	<40	<40	<40	<2,000 J	<600 J	<40
Phenol	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40
Pyrene	ug/kg	<40	NA	NA	<40	<40	<40	<40	<30	<40	<40	<40	<2,000 J	<600 J	<40

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A10-PP232 15 - 16 06/01/12	SB-P6-KJ266 1 - 2 11/30/12	SB-P6-KJ266 25 - 26 11/30/12	VAP-A5.6-ND208 1 - 2 05/17/12	VAP-A5.6-ND208 10 - 11 05/17/12	VAP-A5.6-ND208 17 - 18 05/17/12	VAP-A5.6-ND208 24 - 25 05/17/12	VAP-A5.6-NF255 1 - 2 05/22/12	VAP-A5.6-NF255 9 - 10 05/22/12	VAP-A5.6-NF255 21 - 22 05/22/12	VAP-A5.6-NF255 31 - 32 05/22/12	VAP-A5.6-NR227 1 - 2 05/18/12	VAP-A5.6-NR227 8 - 9 05/18/12	VAP-A5.6-NR227 15 - 16 05/21/12
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	NA	NA	NA	<0.21	<0.20	<0.21	<0.20	<0.20	<0.20	<0.21	<0.20	1.75	<0.21	<0.20
Arsenic	mg/kg	NA	NA	NA	1.15	1.07	2.97	1.40	0.64	0.43	2.01	2.54	13.7 ^{abi}	2.25	0.92
Barium	mg/kg	NA	68.1	20.3	22.8	33.2	40.3	22.7	4.78	87.6 ⁱ	22.5	44.6	946 ^{bi}	86.8 ⁱ	22.8
Beryllium	mg/kg	NA	NA	NA	<0.21	<0.20	0.24	<0.20	<0.20	0.45	<0.21	0.21	0.72	0.33	<0.20
Boron	mg/kg	NA	NA	NA	<4.2	<4.1	<4.2	<4.1	<4.0	<4.1	<4.2	<4.3	9.27	<4.3	<4.0
Cadmium	mg/kg	NA	NA	NA	<0.10	<0.10	0.14	0.15	<0.10	0.47	<0.10	0.11	5.83 ^{bi}	0.10	<0.10
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	3.02	2.68	4.26	2.60	0.73	3.94	2.18	5.02	10.8	5.58	2.16
Cobalt	mg/kg	NA	NA	NA	4.02	1.69	4.52	1.60	0.96	2.82	2.04	4.43	5.62	3.82	1.70
Copper	mg/kg	NA	NA	NA	3.31	3.20	13.8	6.35	1.58	13.5	6.16	12.3	185 ^{bi}	8.29	6.69
Lead	mg/kg	NA	7.39	4.41	4.23	2.93	6.66	2.34	1.36	5.83	3.75	5.87	3,550 ^{afi}	10.0	5.32
Manganese	mg/kg	NA	45.5	242	417	404	352	151	106	384	197	247	222	270	200
Mercury	mg/kg	NA	NA	NA	0.0166	0.0086	0.0149	0.0064	<0.0052	0.0507	0.0069	0.0112	0.218 ^{bi}	0.0236	0.0082
Nickel	mg/kg	NA	NA	NA	6.60	7.31	11.3	4.75	2.73	6.05	6.76	12.4	15.2	7.62	5.96
Selenium	mg/kg	NA	NA	NA	<0.21	<0.20	0.35	<0.20	<0.20	<0.20	<0.21	<0.21	1.61 ^{bi}	<0.21	<0.20
Silver	mg/kg	NA	NA	NA	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.20	<0.10	<0.10
Thallium	mg/kg	NA	NA	NA	<0.21	<0.20	<0.21	<0.20	<0.20	<0.20	<0.21	<0.21	0.41	<0.21	<0.20
Vanadium	mg/kg	NA	NA	NA	5.75	4.28	6.98	3.32	1.16	6.39	3.76	7.15	12.5	9.97	3.49
Zinc	mg/kg	NA	NA	NA	7.04	8.94	23.2	174 ⁱ	1.90	6.34	18.8	19.5	6,410 ^{abi}	25.0	9.44
Miscellaneous															
Total solids	%	91	83	84	86	91	86	90	97	82	91	86	76	86	91

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.6-NR227 25 - 26 05/21/12	VAP-A5.6-NS207 1 - 2 05/16/12	VAP-A5.6-NS207 6 - 7 05/16/12	VAP-A5.6-NS207 17 - 18 05/16/12	VAP-A5.6-NS207 27 - 28 05/16/12	VAP-A5.6-NS207 35 - 36 05/16/12	VAP-A5.6-NZ254 0.5 - 1.5 05/21/12	VAP-A5.6-NZ254 6 - 7 05/21/12	VAP-A5.6-NZ254 15 - 16 05/21/12	VAP-A5.6-NZ254 25 - 26 05/21/12	VAP-A5.6-OK232 3.5 - 4.5 05/23/12	VAP-A5.6-OK232 16 - 17 05/23/12	VAP-A5.7-MB257 1 - 2 05/24/12
	Units													
Volatile Organics														
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
1,2-Dichlorobenzene	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
1,4-Dichlorobenzene	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
2-Hexanone	ug/kg	<800	<770	<800	<510	<650	<650	<720	<820	<790	<750	<750	<750 [<730]	<700
Acetone	ug/kg	<2,000	<2,800 B	<2,000	<1,400 B	<2,400 B	<1,600	<1,800	<2,100	<2,000	<1,900	<1,900	<1,900 [<1,800]	<1,800
Bromodichloromethane	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
Bromoform	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
Carbon tetrachloride	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
Chlorobenzene	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
Chloroform (Trichloromethane)	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
Chloromethane (Methyl chloride)	ug/kg	<200	<190	<200	<130	<160	<160	<180	<210	<200	<190	<190	<190 [<180]	<180
cis-1,3-Dichloropropene	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
Styrene	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
trans-1,3-Dichloropropene	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
1,4-Dioxane	ug/kg	<800	<770	<800	<510	<650	<650	<720	<820	<790	<750	<750	<750 [<730]	<700
1,1,1-Trichloroethane	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
1,1,2,2-Tetrachloroethane	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
1,1,2-Trichloroethane	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
1,1-Dichloroethane	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
1,1-Dichloroethene	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
1,2-Dichloroethane	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
cis-1,2-Dichloroethene	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
trans-1,2-Dichloroethene	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
Trichloroethene	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
Tetrachloroethene	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	270 ^a	<75 [<73]	<70
Vinyl chloride	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
Chloroethane	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
Benzene	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
Ethylbenzene	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
Toluene	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
o-Xylene	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
m&p-Xylene	ug/kg	<160	<150	<160	<100	<130	<130	<140	<160	<160	<150	<150	<150 [<150]	<140
Xylene (total)	ug/kg	<240	<227	<240	<151	<195	<195	<212	<242	<239	<225	<225	<225 [<223]	<210
Methyl tert butyl ether (MTBE)	ug/kg	<80	<77 J	<80 J	<51 J	<65 J	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<800	<770	<800	<510	<650	<650	<720	<820	<790	<750	<750	<750 [<730]	<700
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<800	<770	<800	<510	<650	<650	<720	<820	<790	<750	<750	<750 [<730]	<700
1,2,4-Trichlorobenzene	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
1,2,4-Trimethylbenzene	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
1,3,5-Trimethylbenzene	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
1,2-Dichloropropane	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
1,3-Dichlorobenzene	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
Cyclohexane	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
Methyl cyclohexane	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
Dibromochloromethane	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70
Isopropyl benzene	ug/kg	<80	<77	<80	<51	<65	<65	<72	60 J	<79	<75	<75	<75 [<73]	<70
Naphthalene	ug/kg	<80	<77	<80	<51	<65	<65	<72	<82	<79	<75	<75	<75 [<73]	<70

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.6-NR227 25 - 26 05/21/12	VAP-A5.6-NS207 1 - 2 05/16/12	VAP-A5.6-NS207 6 - 7 05/16/12	VAP-A5.6-NS207 17 - 18 05/16/12	VAP-A5.6-NS207 27 - 28 05/16/12	VAP-A5.6-NS207 35 - 36 05/16/12	VAP-A5.6-NZ254 0.5 - 1.5 05/21/12	VAP-A5.6-NZ254 6 - 7 05/21/12	VAP-A5.6-NZ254 15 - 16 05/21/12	VAP-A5.6-NZ254 25 - 26 05/21/12	VAP-A5.6-OK232 3.5 - 4.5 05/23/12	VAP-A5.6-OK232 16 - 17 05/23/12	VAP-A5.7-MB257 1 - 2 05/24/12
	Units													
Semivolatile Organics														
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40 J	<40 J [<40 J]	<40
2,4,6-Trichlorophenol	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
2,4-Dichlorophenol	ug/kg	<40	<30 J	<40 J	<40 J	<40 J [<40 J]	<40 J	<40	<40	<40	<40	<40 J	<40 J [<40 J]	<40
2,4,5-Trichlorophenol	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
2,4-Dimethylphenol	ug/kg	<40	<30 J	<40 J	<40 J	<40 J [<40 J]	<40 J	<40	<40	<40	<40	<40	<40 [<40]	<40
2,4-Dinitrophenol	ug/kg	<40 J	<30	<40	<40	<40 [<40]	<40	<40 J	<40 J	<40 J	<40 J	<40	<40 [<40]	<40
2,4-Dinitrotoluene	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
2,6-Dinitrotoluene	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
2-Chloronaphthalene	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
2-Chlorophenol	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
2-Methylnaphthalene	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
2-Methylphenol	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
2-Nitroaniline	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
2-Nitrophenol	ug/kg	<40	<30 J	<40 J	<40 J	<40 J [<40 J]	<40 J	<40	<40	<40	<40	<40 J	<40 J [<40 J]	<40
3&4-Methylphenol	ug/kg	<80	<70	<80	<70	<80 [<80]	<80	<70	<80	<70	<70	<70	<70 [<70]	<70
3,3'-Dichlorobenzidine	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
Naphthalene	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
3-Nitroaniline	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
4-Bromophenyl phenyl ether	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
4-Chloro-3-methylphenol	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
4-Chloroaniline	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
4-Chlorophenyl phenyl ether	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
4-Nitroaniline	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
4-Nitrophenol	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
Anthracene	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
Acenaphthene	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
Acenaphthylene	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
Acetophenone	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
Atrazine	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
Benzaldehyde	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
Benzo(a)anthracene	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
Benzo(a)pyrene	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
Benzo(b)fluoranthene	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	50 J	<40	<40	<40	<40	<40 [<40]	<40
Benzo(g,h,i)perylene	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
Benzo(k)fluoranthene	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	60 J	<40	<40	<40	<40	<40 [<40]	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
bis(2-Chloroethoxy)methane	ug/kg	<40	<30 J	<40 J	<40 J	<40 J [<40 J]	<40 J	<40	<40	<40	<40	<40 J	<40 J [<40 J]	<40
bis(2-Chloroethyl)ether	ug/kg	<40	<30 J	<40 J	<40 J	<40 J [<40 J]	<40 J	<40	<40	<40	<40	<40 J	<40 J [<40 J]	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<80	<70	<80	<70	<80 [<80]	90	<70	<80	<70	<70	80	<70 [<70]	<70
Butyl benzylphthalate (BBP)	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
Caprolactam	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
Carbazole	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
Chrysene	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	40	<40	<40	<40	<40	<40 [<40]	<40
Dibenz(a,h)anthracene	ug/kg	<80	<70	<80	<70	<80 [<80]	<80	<70	<80	<70	<70	<70	<70 [<70]	<70
Dibenzofuran	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
Diethyl phthalate	ug/kg	<80	<70	<80	<70	<80 [<80]	<80	<70	<80	<70	<70	<70	<70 [<70]	<70
Dimethyl phthalate	ug/kg	<220 B	<210 B	<290 B	<200 B	<240 B [<270 B]	<210 B	<110 B	<160 B	<110 B	<130 B	<130 B	<140 B [<90 B]	200 B
Di-n-butylphthalate (DBP)	ug/kg	<80	<70	<80	<70	<80 [<80]	<80	<70	<80	<70	<70	<70	<70 [<70]	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<80	<70	<80	<70	<80 [<80]	<80	<70	<80	<70	<70	<70	<70 [<70]	<70
Fluoranthene	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	50	<40	<40	<40	<40	<40 [<40]	<40
Fluorene	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
Hexachlorobenzene	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
Hexachlorobutadiene	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
Hexachlorocyclopentadiene	ug/kg	<40 J	<30	<40	<40	<40 [<40]	<40	<40 J	<40 J	<40 J	<40 J	<40	<40 [<40]	<40
Hexachloroethane	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
Isophorone	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40 J	<40 J [<40 J]	<40
Nitrobenzene	ug/kg	<40	<30 J	<40 J	<40 J	<40 J [<40 J]	<40 J	<40	<40	<40	<40	<40 J	<40 J [<40 J]	<40
N-Nitrosodi-n-propylamine	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
N-Nitrosodiphenylamine	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
Pentachlorophenol	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
Phenanthrene	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
Phenol	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40 [<40]	<40
Pyrene	ug/kg	<40	<30	<40	<40	<40 [<40]	<40	50	<40	<40	<40	<40	<40 [<40]	<40

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.6-NR227 25 - 26 05/21/12	VAP-A5.6-NS207 1 - 2 05/16/12	VAP-A5.6-NS207 6 - 7 05/16/12	VAP-A5.6-NS207 17 - 18 05/16/12	VAP-A5.6-NS207 27 - 28 05/16/12	VAP-A5.6-NS207 35 - 36 05/16/12	VAP-A5.6-NZ254 0.5 - 1.5 05/21/12	VAP-A5.6-NZ254 6 - 7 05/21/12	VAP-A5.6-NZ254 15 - 16 05/21/12	VAP-A5.6-NZ254 25 - 26 05/21/12	VAP-A5.6-OK232 3.5 - 4.5 05/23/12	VAP-A5.6-OK232 16 - 17 05/23/12	VAP-A5.7-MB257 1 - 2 05/24/12
	Units													
PCBs														
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics														
Antimony	mg/kg	<0.21	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.21
Arsenic	mg/kg	2.72	0.65	0.87	0.78	2.18 [2.35]	3.74	1.47	0.43	0.89	1.98	1.49	0.61 [1.02]	0.81
Barium	mg/kg	48.4	4.73	5.43	22.9	22.7 [51.4]	28.6	47.8	17.0	26.0	18.6	5.90	16.8 [15.3]	19.6
Beryllium	mg/kg	0.23	<0.20	<0.20	<0.20	<0.20 [0.24]	<0.20	0.37	<0.20	<0.20	<0.20	<0.20	<0.20 [<0.2]	0.23
Boron	mg/kg	<4.2	<4.0	<4.0	<4.0	<4.0 [<4]	<4.0	<4.1	<4.1	<4.0	<4.0	<4.0	<4.0 [<4]	<4.2
Cadmium	mg/kg	0.15	<0.10	<0.10	0.31	<0.10 [0.13]	0.10	0.14	<0.10	<0.10	0.10	<0.10	<0.10 [<0.1]	<0.10
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	4.57	1.02	1.40	4.31	3.28 [6.61]	5.11	4.58	1.68	2.41	3.30	1.92	2.61 [2.62]	2.70
Cobalt	mg/kg	4.30	1.12	1.41	2.72	2.70 [5.03]	3.00	3.07	1.14	1.99	3.16	1.36	2.07 [2.02]	1.67
Copper	mg/kg	12.3	2.41	4.46	10.2	8.14 [13.6]	10.1	14.8	3.99	7.32	9.00	7.52	4.90 [3.89]	4.50
Lead	mg/kg	7.36	2.15	3.53	7.97	3.98 [7.01]	9.15	19.0	3.99	3.44	4.70	2.59	3.10 [3.69]	4.43
Manganese	mg/kg	273	96.2	163	272	253 [323]	297	205	44.0	213	262	185	181 [193]	272
Mercury	mg/kg	0.0112	<0.0051	<0.0057	0.0105	0.0114 [0.0126]	0.0100	0.0255	0.0175	0.0106	0.0106	0.0219	0.0069 [0.009]	0.0122
Nickel	mg/kg	12.5	2.68	5.10	8.53	8.60 [14]	8.81	6.25	1.93	6.89	9.10	7.00	7.43 [7.15]	3.65
Selenium	mg/kg	<0.21	<0.20	0.25	0.22	0.24 [<0.2]	0.28	<0.20	<0.20	<0.20	0.24	<0.20	0.28 [0.3]	<0.21
Silver	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10 [<0.1]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10 [<0.1]	<0.10
Thallium	mg/kg	<0.21	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.21
Vanadium	mg/kg	6.64	1.38	2.12	5.15	5.11 [8.73]	5.40	7.32	3.84	3.98	5.33	2.14	3.86 [4.28]	6.65
Zinc	mg/kg	17.0	5.32	10.9	14.7	10.3 [20.8]	24.8	17.8	4.65	12.7	14.1	10.2	11.1 [9.45]	4.99
Miscellaneous														
Total solids	%	86	96	88	89	83 [84]	81	89	86	89	89	94	91 [91]	90

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.7-MB257 6 - 7 05/24/12	VAP-A5.7-MB257 11 - 12 05/24/12	VAP-A5.7-MB257 17 - 18 05/24/12	VAP-A5.7-MB257 22 - 23 05/24/12	VAP-A5.7-MB257 27 - 28 05/24/12	VAP-A5.7-MB257 32 - 33 05/24/12	VAP-A5.7-MB257 37 - 38 05/24/12	VAP-A5.7-MB257 42 - 43 05/24/12	VAP-A5.7-MB257 47 - 48 05/24/12	VAP-A5.7-ML243 1 - 2 05/25/12	VAP-A5.7-ML243 11 - 12 05/25/12	VAP-A5.7-ML243 17 - 18 05/25/12	VAP-A5.7-ML243 27 - 28 05/25/12
	Units													
Volatile Organics														
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
1,2-Dichlorobenzene	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
1,4-Dichlorobenzene	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
2-Hexanone	ug/kg	<760	<730	<770	<740	<830	<780 [<820]	<780	<790	<830	<780 [<760]	<790 [<770]	<790	<770
Acetone	ug/kg	<1,900	<1,800	<1,900	<1,900	<2,100	2,000 [<2,000]	<2,000	<2,000	<2,100	<2,000 [<1,900]	<2,000 [<1,900]	<2,000	<1,900
Bromodichloromethane	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
Bromoform	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
Carbon tetrachloride	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
Chlorobenzene	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
Chloroform (Trichloromethane)	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
Chloromethane (Methyl chloride)	ug/kg	<190	<180	<190	<190	<210	<190 [<200]	<200	<200	<210	<200 [<190]	<200 [<190]	<200	<190
cis-1,3-Dichloropropene	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
Styrene	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
trans-1,3-Dichloropropene	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
1,4-Dioxane	ug/kg	<760	<730	<770	<740	<830	<780 [<820]	<780	<790	<830	<780 [<760]	<790 [<770]	<790	<770
1,1,1-Trichloroethane	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
1,1,2,2-Tetrachloroethane	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
1,1,2-Trichloroethane	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
1,1-Dichloroethane	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
1,1-Dichloroethene	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
1,2-Dichloroethane	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
cis-1,2-Dichloroethene	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	230 [310]	30 J	<77
trans-1,2-Dichloroethene	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	56 J [73 J]	<79	<77
Trichloroethene	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	12,000 [12,000] ^{abde}	<79	<77
Tetrachloroethene	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
Vinyl chloride	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
Chloroethane	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
Benzene	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
Ethylbenzene	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
Toluene	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
o-Xylene	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
m&p-Xylene	ug/kg	<150	<150	<150	<150	<170	<160 [<160]	<160	<160	<170	<160 [<150]	<160 [<150]	<160	<150
Xylene (total)	ug/kg	<226	<223	<227	<224	<253	<238 [<242]	<238	<239	<253	<238 [<226]	<239 [<227]	<239	<227
Methyl tert butyl ether (MTBE)	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<760	<730	<770	<740	<830	<780 [<820]	<780	<790	<830	<780 [<760]	<790 [<770]	<790	<770
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<760	<730	<770	<740	<830	<780 [<820]	<780	<790	<830	<780 [<760]	<790 [<770]	<790	<770
1,2,4-Trichlorobenzene	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
1,2,4-Trimethylbenzene	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
1,3,5-Trimethylbenzene	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
1,2-Dichloropropane	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
1,3-Dichlorobenzene	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
Cyclohexane	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
Methyl cyclohexane	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	2,400 [2,300]	<79	<77
Dibromochloromethane	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
Isopropyl benzene	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77
Naphthalene	ug/kg	<76	<73	<77	<74	<83	<78 [<82]	<78	<79	<83	<78 [<76]	<79 [<77]	<79	<77

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.7-MB257 6 - 7 05/24/12	VAP-A5.7-MB257 11 - 12 05/24/12	VAP-A5.7-MB257 17 - 18 05/24/12	VAP-A5.7-MB257 22 - 23 05/24/12	VAP-A5.7-MB257 27 - 28 05/24/12	VAP-A5.7-MB257 32 - 33 05/24/12	VAP-A5.7-MB257 37 - 38 05/24/12	VAP-A5.7-MB257 42 - 43 05/24/12	VAP-A5.7-MB257 47 - 48 05/24/12	VAP-A5.7-ML243 1 - 2 05/25/12	VAP-A5.7-ML243 11 - 12 05/25/12	VAP-A5.7-ML243 17 - 18 05/25/12	VAP-A5.7-ML243 27 - 28 05/25/12
	Units													
Semivolatile Organics														
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	<40	<40	<40	<40	<40	<40 [<40 J]	<40 J	<40 J	<40 J	<40 [<40]	<40 [<40]	<40	<40
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
2,4-Dichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
2,4-Dimethylphenol	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
2,4-Dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
2-Chloronaphthalene	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
2-Chlorophenol	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
2-Methylnaphthalene	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
2-Methylphenol	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
2-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
2-Nitrophenol	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
3&4-Methylphenol	ug/kg	<80	<80	<70	<70	<80	<70 [<70]	<70	<70	<70	<70 [<70]	<80 [<80]	<70	<70
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Naphthalene	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
3-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
4-Chloroaniline	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
4-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
4-Nitrophenol	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Anthracene	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Acenaphthene	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Acenaphthylene	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Acetophenone	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Atrazine	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Benzaldehyde	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Benzo(a)anthracene	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Benzo(a)pyrene	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Benzo(b)fluoranthene	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Benzo(g,h,i)perylene	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Benzo(k)fluoranthene	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<80	<80	<70	<70	<80	<70 [<70]	<70	<70	<70	<70 [<70]	<80 [<80]	<70	<70
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Caprolactam	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Carbazole	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Chrysene	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Dibenz(a,h)anthracene	ug/kg	<80	<80	<70	<70	<80	<70 [<70]	<70	<70	<70	<70 [<70]	<80 [<80]	<70	<70
Dibenzofuran	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Diethyl phthalate	ug/kg	<80	<80	<70	<70	<80	<70 [<70]	<70	<70	<70	<70 [<70]	<80 [<80]	<70	<70
Dimethyl phthalate	ug/kg	<160 B	230 B	230 B	<70 B	<100 B	<130 B [<80 B]	<110 B	<180 B	<120 B	<50 B [<40]	<40 B [<40]	<60 B	<50 B
Di-n-butylphthalate (DBP)	ug/kg	<80	<80	<70	<70	<80	<70 [<70]	<70	<70	<70	<70 [<70]	<80 [<80]	<70	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<80	<80	<70	<70	<80	<70 [<70]	<70	<70	<70	<70 [<70]	<80 [<80]	<70	<70
Fluoranthene	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Fluorene	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Hexachlorobenzene	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Hexachlorobutadiene	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Hexachlorocyclopentadiene	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Hexachloroethane	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Isophorone	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Nitrobenzene	ug/kg	<40	<40	<40	<40	<40	<40 [<40 J]	<40 J	<40 J	<40 J	<40 [<40]	<40 [<40]	<40	<40
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
N-Nitrosodiphenylamine	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Pentachlorophenol	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Phenanthrene	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Phenol	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40
Pyrene	ug/kg	<40	<40	<40	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40 [<40]	<40	<40

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.7-MB257 6 - 7 05/24/12	VAP-A5.7-MB257 11 - 12 05/24/12	VAP-A5.7-MB257 17 - 18 05/24/12	VAP-A5.7-MB257 22 - 23 05/24/12	VAP-A5.7-MB257 27 - 28 05/24/12	VAP-A5.7-MB257 32 - 33 05/24/12	VAP-A5.7-MB257 37 - 38 05/24/12	VAP-A5.7-MB257 42 - 43 05/24/12	VAP-A5.7-MB257 47 - 48 05/24/12	VAP-A5.7-ML243 1 - 2 05/25/12	VAP-A5.7-ML243 11 - 12 05/25/12	VAP-A5.7-ML243 17 - 18 05/25/12	VAP-A5.7-ML243 27 - 28 05/25/12
	Units													
PCBs														
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics														
Antimony	mg/kg	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.21	<0.21	<0.20 [<0.21]	<0.20 [<0.21]	<0.20	<0.20
Arsenic	mg/kg	0.75	5.32	1.90	3.13	5.81 ^{abi}	4.22 [4.01]	1.93	5.43	2.05	1.01 [1.17]	1.10 [1.44]	1.18	2.08
Barium	mg/kg	26.8	33.8	27.7	19.6	18.7	24.4 [23.3]	14.3	14.7	19.9	46.6 [47.9]	20.3 [22.3]	21.7	21.6
Beryllium	mg/kg	<0.20	0.26	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.21	<0.21	<0.20 [0.23]	<0.20 [<0.21]	<0.20	<0.20
Boron	mg/kg	<4.1	<4.2	<4.0	<4.0	<4.0	<4.1 [<4]	<4.0	<4.2	<4.2	<4.1 [<4.2]	<4.1 [<4.2]	<4.0	<4.1
Cadmium	mg/kg	<0.10	<0.10	<0.10	0.11	0.12	0.16 [0.16]	<0.10	<0.10	<0.10	0.13 [<0.1]	<0.10 [<0.1]	<0.10	<0.10
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	2.60	3.97	2.62	2.34	2.86	3.06 [2.83]	1.98	1.91	2.57	2.66 [3.21]	3.01 [3.56]	1.62	2.52
Cobalt	mg/kg	2.01	4.29	2.82	2.30	3.31	3.98 [3.44]	2.41	4.69	2.24	4.29 [3.33]	3.32 [2.97]	1.69	2.24
Copper	mg/kg	3.17	12.3	9.15	6.56	9.30	10.1 [9.89]	5.21	6.23	5.51	3.56 [3.93]	8.57 [10.4]	5.79	6.13
Lead	mg/kg	2.22	5.74	5.69	3.68	5.47	5.13 [5.36]	3.12	6.27	3.12	3.24 [3.88]	4.66 [4.72]	3.08	3.66
Manganese	mg/kg	150	308	218	211	334	282 [273]	203	206	237	402 [294]	226 [247]	146	207
Mercury	mg/kg	0.0087	0.0132	0.0091	0.0082	0.0136	0.0097 [0.01]	0.0081	0.0120	0.0077	0.0126 [0.008]	0.0105 [0.0144]	0.0077	0.0082
Nickel	mg/kg	6.11	12.8	8.60	7.45	10.4	11.2 [10.3]	7.08	11.8	6.40	8.53 [7.38]	10.9 [9.32]	5.37	7.44
Selenium	mg/kg	<0.20	<0.21	<0.20	0.31	0.32	0.31 [0.28]	<0.20	0.32	0.25	<0.20 [<0.21]	0.21 [<0.21]	<0.20	<0.20
Silver	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10 [<0.1]	<0.10	<0.10	<0.10	<0.10 [<0.1]	<0.10 [<0.1]	<0.10	<0.10
Thallium	mg/kg	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.21	<0.21	<0.20 [<0.21]	<0.20 [<0.21]	<0.20	<0.20
Vanadium	mg/kg	4.86	7.72	4.93	4.80	6.27	6.05 [5.52]	4.37	3.98	4.10	6.04 [7.66]	6.54 [6.96]	3.46	4.41
Zinc	mg/kg	6.86	15.3	13.9	15.3	18.3	23.5 [19.5]	10.8	9.42	15.9	7.41 [7.76]	11.0 [13.5]	8.76	11.7
Miscellaneous														
Total solids	%	87	87	89	91	82	89 [89]	94	90	90	90 [90]	88 [88]	89	90

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.7-ML243 32 - 33 05/25/12	VAP-A5.7-MW234 0.5 - 1.5 05/29/12	VAP-A5.7-MW234 5 - 6 05/29/12	VAP-A5.7-MW234 17 - 18 05/29/12	VAP-A5.7-MW234 22 - 23 05/29/12	VAP-A5.7-MW234 27 - 28 05/29/12	VAP-A5.7-MW234 32 - 33 05/29/12	VAP-A5.7-MW234 42 - 43 05/29/12	VAP-A5.7-MW234 47 - 48 05/29/12	VAP-A5.7-MW234 52 - 53 05/29/12	VAP-A5.7-MW234 57 - 58 05/29/12	VAP-A6-SL191 1 - 2 06/07/12	VAP-A6-SL191 10 - 11 06/07/12
	Units													
Volatile Organics														
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
1,2-Dichlorobenzene	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
1,4-Dichlorobenzene	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
2-Hexanone	ug/kg	<940	<810	<1,000	<700	<800	<750	<750	<780	<760	<820	<880	<550 [<560]	<620 [<620]
Acetone	ug/kg	<2,300	<2,000	<2,600	<1,800	<2,000	<1,900	<1,900	4,900	<1,900	5,500	4,500	<550 [<560]	<620 [<620]
Bromodichloromethane	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
Bromoform	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
Bromomethane (Methyl bromide)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60 [<60]	<60 [<60]
Carbon disulfide	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
Carbon tetrachloride	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
Chlorobenzene	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
Chloroform (Trichloromethane)	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
Chloromethane (Methyl chloride)	ug/kg	<230	<200	<260	<180	<200	<190	<190	<200	<190	<210	<220	<60 [<60]	<60 [<60]
cis-1,3-Dichloropropene	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
Dichlorodifluoromethane (CFC-12)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60 [<60]	<60 [<60]
Methyl acetate	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<550 [<560]	<620 [<620]
Methylene chloride	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
Styrene	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
trans-1,3-Dichloropropene	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
Trichlorofluoromethane (CFC-11)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60 [<60]	<60 [<60]
Trifluorotrichloroethane (Freon 113)	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
1,4-Dioxane	ug/kg	<940	<810	<1,000	<700	<800	<750	<750	<780	<760	<820	<880	<6,000 [<6,000]	<6,000 [<6,000]
1,1,1-Trichloroethane	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
1,1,2,2-Tetrachloroethane	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
1,1,2-Trichloroethane	ug/kg	<94	<81	<100	<70	<80	90	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
1,1-Dichloroethane	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
1,1-Dichloroethene	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
1,2-Dichloroethane	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
cis-1,2-Dichloroethene	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
trans-1,2-Dichloroethene	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
Trichloroethene	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
Tetrachloroethene	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
Vinyl chloride	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
Chloroethane	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
Benzene	ug/kg	<94	<81	60 J	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
Ethylbenzene	ug/kg	<94	<81	320	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
Toluene	ug/kg	<94	<81	410	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
o-Xylene	ug/kg	<94	<81	530	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
m&p-Xylene	ug/kg	<190	<160	1,800 ^b	<140	<160	<150	<150	<160	<150	<160	<180	<100 [<100]	<100 [<100]
Xylene (total)	ug/kg	<284	<241	2,330 ^b	<210	<240	<225	<225	<238	<226	<242	<268	<160 [<160]	<160 [<160]
Methyl tert butyl ether (MTBE)	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<940	<810	<1,000	<700	<800	<750	<750	<780	<760	<820	<880	<550 [<560]	<620 [<620]
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<940	<810	<1,000	<700	<800	<750	<750	<780 J	<760	<820 J	<880 J	<550 [<560]	<620 [<620]
1,2,4-Trichlorobenzene	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
1,2,4-Trimethylbenzene	ug/kg	<94	<81	1,500 ^b	<70	<80	<75	<75	<78	<76	<82	<88	NA	NA
1,3,5-Trimethylbenzene	ug/kg	<94	<81	510	<70	<80	<75	<75	<78	<76	<82	<88	NA	NA
1,2-Dichloropropane	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
1,3-Dichlorobenzene	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
Cyclohexane	ug/kg	<94	29 J	84 J	<70	<80	<75	<75	30 J	<76	<82	<88	<60 [<60]	<60 [<60]
Methyl cyclohexane	ug/kg	<94	70 J	140	<70	<80	<75	<75	64 J	<76	<82	<88	<60 [<60]	<60 [<60]
Dibromochloromethane	ug/kg	<94	<81	<100	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
Isopropyl benzene	ug/kg	<94	<81	120	<70	<80	<75	<75	<78	<76	<82	<88	<60 [<60]	<60 [<60]
Naphthalene	ug/kg	<94	<81	270	<70	<80	<75	<75	<78	<76	<82	<88	NA	NA

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.7-ML243 32 - 33 05/25/12	VAP-A5.7-MW234 0.5 - 1.5 05/29/12	VAP-A5.7-MW234 5 - 6 05/29/12	VAP-A5.7-MW234 17 - 18 05/29/12	VAP-A5.7-MW234 22 - 23 05/29/12	VAP-A5.7-MW234 27 - 28 05/29/12	VAP-A5.7-MW234 32 - 33 05/29/12	VAP-A5.7-MW234 42 - 43 05/29/12	VAP-A5.7-MW234 47 - 48 05/29/12	VAP-A5.7-MW234 52 - 53 05/29/12	VAP-A5.7-MW234 57 - 58 05/29/12	VAP-A6-SL191 1 - 2 06/07/12	VAP-A6-SL191 10 - 11 06/07/12
	Units													
Semivolatile Organics														
2-Methyl-4,6-dinitrophenol	ug/kg	<40	R	R	R	R	R	R	R	R	R	R	<40 [<40]	<40 [<40]
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	<40	<80 J	<200 J	<40 J	<40 J	<40 J	<40 J	<40 J	<30 J	<40 J	<40 J	<40 [<40]	<40 [<40]
2,4,6-Trichlorophenol	ug/kg	<40	<80	R	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
2,4-Dichlorophenol	ug/kg	<40	<80 J	R	<40 J	<40	<40 J	<40 J	<40 J	<30 J	<40 J	<40 J	<40 [<40]	<40 [<40]
2,4,5-Trichlorophenol	ug/kg	<40	<80	R	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
2,4-Dimethylphenol	ug/kg	<40	<80 J	R	<40 J	<40	<40 J	<40 J	<40 J	<30 J	<40 J	<40 J	<40 [<40]	<40 [<40]
2,4-Dinitrophenol	ug/kg	<40	R	R	R	R	R	R	R	R	R	R	<40 [<40]	<40 [<40]
2,4-Dinitrotoluene	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
2,6-Dinitrotoluene	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
2-Chloronaphthalene	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
2-Chlorophenol	ug/kg	<40	<80	R	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
2-Methylnaphthalene	ug/kg	<40	<80	<200 J	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
2-Methylphenol	ug/kg	<40	<80	R	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
2-Nitroaniline	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
2-Nitrophenol	ug/kg	<40	<80 J	R	<40 J	<40 J	<40 J	<40 J	<40 J	<30 J	<40 J	<40 J	<40 [<40]	<40 [<40]
3&4-Methylphenol	ug/kg	<80	<200	R	<70	<70	<80	<70	<80	<70	<80	<80	<70 [<70]	<70 [<70]
3,3'-Dichlorobenzidine	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Naphthalene	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
3-Nitroaniline	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
4-Bromophenyl phenyl ether	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
4-Chloro-3-methylphenol	ug/kg	<40	<80	R	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
4-Chloroaniline	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 J [<40 J]	<40 J [<40 J]
4-Chlorophenyl phenyl ether	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
4-Nitroaniline	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
4-Nitrophenol	ug/kg	<40	<80 J	R	<40 J	<40	<40 J	<40 J	<40 J	<30 J	<40 J	<40 J	<40 [<40]	<40 [<40]
Anthracene	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Acenaphthene	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Acenaphthylene	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Acetophenone	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Atrazine	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Benzaldehyde	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Benzo(a)anthracene	ug/kg	<40	110	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Benzo(a)pyrene	ug/kg	<40	120 J	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Benzo(b)fluoranthene	ug/kg	<40	280 J	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Benzo(g,h,i)perylene	ug/kg	<40	90 J	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Benzo(k)fluoranthene	ug/kg	<40	280 J	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
bis(2-Chloroethoxy)methane	ug/kg	<40	<80 J	<200 J	<40 J	<40 J	<40 J	<40 J	<40 J	<30 J	<40 J	<40 J	<40 [<40]	<40 [<40]
bis(2-Chloroethyl)ether	ug/kg	<40	<80 J	<200 J	<40 J	<40 J	<40 J	<40 J	<40 J	<30 J	<40 J	<40 J	<40 [<40]	<40 [<40]
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<80	<200	<400	<70	<70	<80	<70	<80	300	<80	<80	80 [<70]	<70 [<70]
Butyl benzylphthalate (BBP)	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Caprolactam	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Carbazole	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Chrysene	ug/kg	<40	140	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Dibenz(a,h)anthracene	ug/kg	<80	<200 J	<400	<70	<70	<80	<70	<80	<70	<80	<80	<70 [<70]	<70 [<70]
Dibenzofuran	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Diethyl phthalate	ug/kg	<80	<200	<400	<70	<70	<80	<70	<80	<70	<80	<80	<70 [<70]	<70 [<70]
Dimethyl phthalate	ug/kg	<40	<210 B	<300 B	<80 B	<70 B	<60 B	<40	<60 B	<60 B	60 B	130 B	<220 B [<190 B]	<110 B [<220 B]
Di-n-butylphthalate (DBP)	ug/kg	<80	<200	<400	<70	<70	<80	<70	<80	<70	<80	<80	<70 [<70]	<70 [<70]
Di-n-octyl phthalate (DnOP)	ug/kg	<80	<200 J	<400	<70	<70	<80	<70	<80	<70	<80	<80	<70 [<70]	<70 [<70]
Fluoranthene	ug/kg	<40	190	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Fluorene	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Hexachlorobenzene	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Hexachlorobutadiene	ug/kg	<40	<80 J	<200 J	<40 J	<40 J	<40 J	<40 J	<40 J	<30 J	<40 J	<40 J	<40 [<40]	<40 [<40]
Hexachlorocyclopentadiene	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Hexachloroethane	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<80 J	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Isophorone	ug/kg	<40	<80 J	<200	<40 J	<40 J	<40 J	<40 J	<40 J	<30 J	<40 J	<40 J	<40 [<40]	<40 [<40]
Nitrobenzene	ug/kg	<40	<80 J	<200 J	<40 J	<40 J	<40 J	<40 J	<40 J	<30 J	<40 J	<40 J	<40 [<40]	<40 [<40]
N-Nitrosodi-n-propylamine	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
N-Nitrosodiphenylamine	ug/kg	<40	<80	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Pentachlorophenol	ug/kg	<40	<80 J	R	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Phenanthrene	ug/kg	<40	120	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Phenol	ug/kg	<40	<80	R	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]
Pyrene	ug/kg	<40	230	<200	<40	<40	<40	<40	<40	<30	<40	<40	<40 [<40]	<40 [<40]

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.7-ML243 32 - 33 05/25/12	VAP-A5.7-MW234 0.5 - 1.5 05/29/12	VAP-A5.7-MW234 5 - 6 05/29/12	VAP-A5.7-MW234 17 - 18 05/29/12	VAP-A5.7-MW234 22 - 23 05/29/12	VAP-A5.7-MW234 27 - 28 05/29/12	VAP-A5.7-MW234 32 - 33 05/29/12	VAP-A5.7-MW234 42 - 43 05/29/12	VAP-A5.7-MW234 47 - 48 05/29/12	VAP-A5.7-MW234 52 - 53 05/29/12	VAP-A5.7-MW234 57 - 58 05/29/12	VAP-A6-SL191 1 - 2 06/07/12	VAP-A6-SL191 10 - 11 06/07/12
	Units													
PCBs														
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics														
Antimony	mg/kg	<0.22	0.62	18.5 ^a	<0.20	<0.20	<0.21	<0.20	<0.21	<0.20	<0.20	<0.21	NA	NA
Arsenic	mg/kg	3.64	5.76	3.00	1.05	1.62	2.21	2.90	2.48	2.42	3.44	2.35	NA	NA
Barium	mg/kg	20.4	137 ⁱ	257 ⁱ	32.4	40.0	53.5	19.7	79.9 ⁱ	9.74	38.6	73.9	NA	NA
Beryllium	mg/kg	<0.22	0.32	0.43	<0.2	0.21	0.28	<0.20	0.35	<0.20	0.34	0.46	NA	NA
Boron	mg/kg	<4.4	<4.0	8.17	<4.0	<4.0	<4.2	<4.0	<4.3	<4.0	<4.1	<4.3	NA	NA
Cadmium	mg/kg	0.12	0.31	3.50 ⁱ	<0.10	<0.10	0.14	<0.10	0.17	<0.10	0.15	0.14	NA	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	3.32	3.44	11.7	3.19	3.87	5.09	2.17	5.36	4.92	5.10	8.40	NA	NA
Cobalt	mg/kg	3.19	1.99	2.26	2.61	3.11	4.90	2.23	7.78 ^{abi}	1.63	5.94	7.56 ^{abi}	NA	NA
Copper	mg/kg	9.53	15.6	14.5	9.84	10.1	14.0	5.77	19.3	4.73	14.9	19.1	NA	NA
Lead	mg/kg	5.04	157 ⁱ	75.4 ⁱ	4.28	4.94	6.38	3.26	9.78	2.97	8.18	10.0	NA	NA
Manganese	mg/kg	346	79.6	131	226	235	286	180	338	252	448 ^{abi}	431	NA	NA
Mercury	mg/kg	0.0148	0.0272	0.0198	0.0131	0.0108	0.0145	0.0076	0.0194	0.0055	0.0221	0.0227	NA	NA
Nickel	mg/kg	10.3	5.17	6.51	8.09	9.22	13.4	6.70	19.9	7.25	15.1	19.1	NA	NA
Selenium	mg/kg	0.31	0.41	0.47 ^{bi}	<0.20	<0.20	<0.21	<0.20	0.27	<0.20	0.22	<0.21	NA	NA
Silver	mg/kg	<0.11	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA
Thallium	mg/kg	<0.22	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20	0.23	<0.20	<0.20	<0.21	NA	NA
Vanadium	mg/kg	6.82	5.20	4.59	6.27	7.30	9.07	4.88	9.66	2.73	10.5	15.0	NA	NA
Zinc	mg/kg	17.6	47.9 ⁱ	72.5 ⁱ	11.8	12.9	20.0	13.5	26.4	18.0	24.4	28.4	NA	NA
Miscellaneous														
Total solids	%	79	88	53	89	89	85	91	82	96	82	79	94 [94]	90 [91]

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A6-SL191 22 - 23 06/07/12	VAP-A6-SL191 32 - 33 06/07/12	VAP-A7-SU211 3 - 4 06/05/12	VAP-A7-SU211 7 - 8 06/05/12	VAP-A7-SU211 12 - 13 06/05/12	VAP-A7-SU211 17 - 18 06/05/12	VAP-A7-SU211 22 - 23 06/05/12	VAP-A7-SU211 27 - 28 06/05/12	VAP-A7-SU211 32 - 33 06/06/12	VAP-A7-SU211 42 - 43 06/06/12	VAP-A7-SU211 47 - 48 06/06/12	VAP-A7-SU211 51 - 52 06/06/12	VAP-A7-SU211 55 - 56 06/06/12	VAP-A9-RR209 1 - 2 06/04/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
1,2-Dichlorobenzene	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
1,4-Dichlorobenzene	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
2-Hexanone	ug/kg	<580	<630	<530	<630	<820	<650	<580	<610	<590	<620	<590	<700	<560	<5,600 Y
Acetone	ug/kg	<580	<630	<530	<630	<820	<650	<580	<610	<590	<620	<590	<700	<560	<5,600 Y
Bromodichloromethane	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
Bromoform	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
Bromomethane (Methyl bromide)	ug/kg	<60	<60	<50	<60	<80 J	<70 J	<60 J	<60 J	<60	<60	<60	<70	<60	<600 Y
Carbon disulfide	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
Carbon tetrachloride	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
Chlorobenzene	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
Chloroform (Trichloromethane)	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
Chloromethane (Methyl chloride)	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
cis-1,3-Dichloropropene	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
Dichlorodifluoromethane (CFC-12)	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
Methyl acetate	ug/kg	<580	<630	<530	<630	<820 J	<650 J	<580 J	<610 J	<590	<620	<590	<700	<560	<5,600 Y
Methylene chloride	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
Styrene	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<700 YX
trans-1,3-Dichloropropene	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
Trichlorofluoromethane (CFC-11)	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
Trifluorotrichloroethane (Freon 113)	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
1,4-Dioxane	ug/kg	<6,000	<6,000	<5,000	<6,000	<8,000	<7,000	<6,000	<6,000	<6,000	<6,000	<6,000	<7,000	<6,000	<6,000
1,1,1-Trichloroethane	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
1,1,2,2-Tetrachloroethane	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
1,1,2-Trichloroethane	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
1,1-Dichloroethane	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
1,1-Dichloroethene	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
1,2-Dichloroethane	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
cis-1,2-Dichloroethene	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
trans-1,2-Dichloroethene	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
Trichloroethene	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
Tetrachloroethene	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
Vinyl chloride	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
Chloroethane	ug/kg	<60	<60	<50 J	<60 J	<80 J	<70 J	<60 J	<60 J	<60	<60	<60	<70	<60	<600 Y
Benzene	ug/kg	<60	<60	<50	350 ^a	230 ^a	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
Ethylbenzene	ug/kg	<60	<60	<50	1,990 ^{ab}	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
Toluene	ug/kg	<60	<60	<50	180	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
o-Xylene	ug/kg	<60	<60	<50	1,520 ^b	<80	<70	<60	<60	<60	<60	<60	<70	<60	18,400 Y ^{ab}
m&p-Xylene	ug/kg	<100	<100	<100	5,200 ^b	<200	<100	<100	<100	<100	<100	<100	<100	<100	70,000 Y ^{ab}
Xylene (total)	ug/kg	<160	<160	<150	6,720 ^{ab}	<280	<170	<160	<160	<160	<160	<160	<170	<160	88,400 ^{ab}
Methyl tert butyl ether (MTBE)	ug/kg	<60	<60	<50	<60	<80 J	<70 J	<60 J	<60 J	<60	<60	<60	<70	<60	<600 Y
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<580	<630	<530	<630	<820	<650	<580	<610	<590	<620	<590	<700	<560	<5,600 Y
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	<580	<630	<530	<630	<820	<650	<580	<610	<590	<620	<590	<700	<560	<5,600 Y
1,2,4-Trichlorobenzene	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
1,3-Dichlorobenzene	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
Cyclohexane	ug/kg	<60	<60	<50	3,540	620	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
Methyl cyclohexane	ug/kg	<60	<60	<50	1,440	290	<70	<60	<60	<60	<60	90	<70	<60	<600 Y
Dibromochloromethane	ug/kg	<60	<60	<50	<60	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
Isopropyl benzene	ug/kg	<60	<60	<50	280	<80	<70	<60	<60	<60	<60	<60	<70	<60	<600 Y
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A6-SL191 22 - 23 06/07/12	VAP-A6-SL191 32 - 33 06/07/12	VAP-A7-SU211 3 - 4 06/05/12	VAP-A7-SU211 7 - 8 06/05/12	VAP-A7-SU211 12 - 13 06/05/12	VAP-A7-SU211 17 - 18 06/05/12	VAP-A7-SU211 22 - 23 06/05/12	VAP-A7-SU211 27 - 28 06/05/12	VAP-A7-SU211 32 - 33 06/06/12	VAP-A7-SU211 42 - 43 06/06/12	VAP-A7-SU211 47 - 48 06/06/12	VAP-A7-SU211 51 - 52 06/06/12	VAP-A7-SU211 55 - 56 06/06/12	VAP-A9-RR209 1 - 2 06/04/12
	Units														
Semivolatile Organics															
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
2,4-Dichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
2,4-Dimethylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	700
2,4-Dinitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
2,4-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
2,6-Dinitrotoluene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
2-Chloronaphthalene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
2-Chlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
2-Methylnaphthalene	ug/kg	<40	<40	<40	850	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
2-Methylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
2-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
2-Nitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
3&4-Methylphenol	ug/kg	<70	<70	<70	<200	<90	<80	<70	<70	<70	<70	<70	<70	<80	<400
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
Naphthalene	ug/kg	<40	<40	<40	730	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
3-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
4-Chloroaniline	ug/kg	<40 J	<40 J	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
4-Nitroaniline	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
4-Nitrophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
Anthracene	ug/kg	<40	<40	<40	130	<40	<40	<40	<40	<40	<40	<40	<40	<40	200
Acenaphthene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
Acenaphthylene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
Acetophenone	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
Atrazine	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
Benzaldehyde	ug/kg	<40	<40	<40	<9,000	<40	<40	<40	<40	<40	<40	<40	<40	<40	<3,000 X
Benzo(a)anthracene	ug/kg	<40	240	<40	170	<40	<40	<40	<40	<40	<40	<40	<40	<40	2,100
Benzo(a)pyrene	ug/kg	<40	220	<40	120	<40	<40	<40	<40	<40	<40	<40	<40	<40	1,100
Benzo(b)fluoranthene	ug/kg	<40	380 J	<40	210 J	<40	<40	<40	<40	<40	<40	<40	<40	<40	3,600 p
Benzo(g,h,i)perylene	ug/kg	<40	150	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	1,100
Benzo(k)fluoranthene	ug/kg	<40	390 J	<40	210 J	<40	<40	<40	<40	<40	<40	<40	<40	<40	3,700 p
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70	<70	<70	<200	<90	<80	<70	<70	<70	<70	<70	<70	<80	270
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	1,500
Caprolactam	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
Carbazole	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
Chrysene	ug/kg	<40	260	<40	160	<40	<40	<40	<40	<40	<40	<40	<40	<40	2,200
Dibenz(a,h)anthracene	ug/kg	<70	90	<70	<200	<90	<80	<70	<70	<70	<70	<70	<70	<80	<70
Dibenzofuran	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
Diethyl phthalate	ug/kg	<70	<70	<70	<200	<90	<40	<70	<70	<70	<70	<70	<70	<80	<70
Dimethyl phthalate	ug/kg	<170 B	<250 B	<60 B	<100 B	<60 B	<70 B	<80 B	<60 B	<200 B	<140 B	<40 B	<150 B	<50 B	<200
Di-n-butylphthalate (DBP)	ug/kg	<70	<70	<70	<200	<90	<40	<70	<70	<70	<70	<70	<70	<80	<70
Di-n-octyl phthalate (DnOP)	ug/kg	<70	<70	<70	<200	<90	<40	<70	<70	<70	<70	<70	<70	<80	<70
Fluoranthene	ug/kg	<40	350	<40	410	<40	<40	<40	<40	<40	<40	<40	<40	<40	5,700 ^b
Fluorene	ug/kg	<40	<40	<40	200 J	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
Hexachlorobenzene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
Hexachlorobutadiene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
Hexachlorocyclopentadiene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
Hexachloroethane	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
Indeno(1,2,3-cd)pyrene	ug/kg	<40	150	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	1,100
Isophorone	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
Nitrobenzene	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
N-Nitrosodiphenylamine	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
Pentachlorophenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
Phenanthrene	ug/kg	<40	<40	<40	630	<40	<40	<40	<40	<40	<40	<40	<40	<40	1,100
Phenol	ug/kg	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200
Pyrene	ug/kg	<40	280	<40	370	<40	<40	<40	<40	<40	<40	<40	<40	<40	4,500

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	VAP-A6-SL191	VAP-A6-SL191	VAP-A7-SU211	VAP-A7-SU211	VAP-A7-SU211	VAP-A7-SU211	VAP-A7-SU211	VAP-A7-SU211	VAP-A7-SU211	VAP-A7-SU211	VAP-A7-SU211	VAP-A7-SU211	VAP-A7-SU211	VAP-A9-RR209
		22 - 23	32 - 33	3 - 4	7 - 8	12 - 13	17 - 18	22 - 23	27 - 28	32 - 33	42 - 43	47 - 48	51 - 52	55 - 56	1 - 2
		06/07/12	06/07/12	06/05/12	06/05/12	06/05/12	06/05/12	06/05/12	06/05/12	06/06/12	06/06/12	06/06/12	06/06/12	06/06/12	06/04/12
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Total solids	%	94	89	95	87	76	88	91	90	90	91	90	84	94	93

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A9-RR209 12 - 13 06/04/12	VAP-A9-RR209 17 - 18 06/04/12	VAP-A9-RR209 22 - 23 06/05/12	VAP-A9-RR209 27 - 28 06/05/12	VAP-A9-RR209 30 - 30.5 06/05/12	VAP-A9-RR209 35 - 36 06/05/12	VAP-A9-RR209 40 - 41 06/05/12	VAP-A9-RR209 45 - 46 06/05/12	VAP-A9-RR209 54 - 55 06/05/12	VAP-P6S-SY103 1 - 2 09/14/12	VEW-5 3 - 4 08/08/11	VEW-5 10 - 11 08/08/11	VEW-5 19 - 20 08/08/11
	Units													
Volatile Organics														
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<2 J	<2 J [<2 J]	<2 J
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<1 J	<1 J [<1 J]	<1 J
1,2-Dichlorobenzene	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
1,4-Dichlorobenzene	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
2-Hexanone	ug/kg	<610	<580	<640 [<660]	<530 [<550]	<680	<630	<620	<600	<720	<740	<490 J	<4,900 J [<490 J]	<500 J
Acetone	ug/kg	<610	<580	<640 [<660]	<530 [<550]	<680	<630	<620	<600	<720	<740	<490 J	<4,900 J [1,490 J]	<500 J
Bromodichloromethane	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
Bromoform	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
Bromomethane (Methyl bromide)	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
Carbon disulfide	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
Carbon tetrachloride	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
Chlorobenzene	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
Chloroform (Trichloromethane)	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
Chloromethane (Methyl chloride)	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
cis-1,3-Dichloropropene	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
Dichlorodifluoromethane (CFC-12)	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
Methyl acetate	ug/kg	<610	<580	<640 [<660]	<530 [<550]	<680	<630	<620	<600	<720	<740	<490 J	<4,900 J [<490 J]	<500 J
Methylene chloride	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
Styrene	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
trans-1,3-Dichloropropene	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
Trichlorofluoromethane (CFC-11)	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
Trifluorotrichloroethane (Freon 113)	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
1,4-Dioxane	ug/kg	<6,000	<6,000	<6,000 [<7,000]	<5,000 [<6,000]	<7,000	<6,000	<6,000	<6,000	<7,000	NA	<300 J	<300 J [<300 J]	<300 J
1,1,1-Trichloroethane	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
1,1,2,2-Tetrachloroethane	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
1,1,2-Trichloroethane	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
1,1-Dichloroethane	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
1,1-Dichloroethene	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
1,2-Dichloroethane	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
cis-1,2-Dichloroethene	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
trans-1,2-Dichloroethene	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
Trichloroethene	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
Tetrachloroethene	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
Vinyl chloride	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
Chloroethane	ug/kg	<60	<60	<60 J [<70 J]	<50 J [<60 J]	<70 J	<60 J	<60 J	<60 J	<70 J	<70	<50 J	<500 J [<50 J]	<50 J
Benzene	ug/kg	60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	3,300 J [3,100 J] ^a	<50 J
Ethylbenzene	ug/kg	4,520 ^{ab}	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	700 J [2,330 J] ^b	<50 J
Toluene	ug/kg	480	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [190 J]	<50 J
o-Xylene	ug/kg	3,720 ^b	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [310 J]	<50 J
m&p-Xylene	ug/kg	15,900 ^{ab}	<100	<100 [<100]	200 [100]	<100	<100	<100	<100	<100	<100	<100 J	3,000 J [6,100 J] ^b	<100 J
Xylene (total)	ug/kg	19,620 ^{ab}	<160	<160 [<170]	200 [100]	<170	<160	<160	<160	<170	<170	<150	3,000 J [6,410 J] ^b	<150
Methyl tert butyl ether (MTBE)	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	<610	<580	<640 [<660]	<530 [<550]	<680	<630	<620	<600	<720	<740	<490 J	<4,900 J [<490 J]	<500 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	820	<580	<640 [<660]	<530 [<550]	<680	<630	<620	<600	<720	<740	<490 J	<4,900 J [<490 J]	<500 J
1,2,4-Trichlorobenzene	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
1,2,4-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
1,3-Dichlorobenzene	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
Cyclohexane	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	12,400 J [25,900 DJ]	<50 J
Methyl cyclohexane	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	70 J	15,300 J [31,400 DJ]	<50 J
Dibromochloromethane	ug/kg	<60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	<500 J [<50 J]	<50 J
Isopropyl benzene	ug/kg	60	<60	<60 [<70]	<50 [<60]	<70	<60	<60	<60	<70	<70	<50 J	900 J [1,290 J]	<50 J
Naphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A9-RR209 12 - 13 06/04/12	VAP-A9-RR209 17 - 18 06/04/12	VAP-A9-RR209 22 - 23 06/05/12	VAP-A9-RR209 27 - 28 06/05/12	VAP-A9-RR209 30 - 30.5 06/05/12	VAP-A9-RR209 35 - 36 06/05/12	VAP-A9-RR209 40 - 41 06/05/12	VAP-A9-RR209 45 - 46 06/05/12	VAP-A9-RR209 54 - 55 06/05/12	VAP-P6S-SY103 1 - 2 09/14/12	VEW-5 3 - 4 08/08/11	VEW-5 10 - 11 08/08/11	VEW-5 19 - 20 08/08/11
	Units													
Semivolatile Organics														
2-Methyl-4,6-dinitrophenol	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
2,4,6-Trichlorophenol	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
2,4-Dichlorophenol	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
2,4,5-Trichlorophenol	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
2,4-Dimethylphenol	ug/kg	380	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
2,4-Dinitrophenol	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
2,4-Dinitrotoluene	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
2,6-Dinitrotoluene	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
2-Chloronaphthalene	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
2-Chlorophenol	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
2-Methylnaphthalene	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
2-Methylphenol	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
2-Nitroaniline	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
2-Nitrophenol	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
3&4-Methylphenol	ug/kg	<70	<70	<80 [<80]	<70 [<70]	<80	<70	<70	<70	<80	<200	NA	NA	NA
3,3'-Dichlorobenzidine	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Naphthalene	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
3-Nitroaniline	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
4-Bromophenyl phenyl ether	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
4-Chloro-3-methylphenol	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
4-Chloroaniline	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
4-Nitroaniline	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
4-Nitrophenol	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Anthracene	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Acenaphthene	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Acenaphthylene	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Acetophenone	ug/kg	50	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Atrazine	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Benzaldehyde	ug/kg	<600	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Benzo(a)anthracene	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Benzo(a)pyrene	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Benzo(b)fluoranthene	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Benzo(g,h,i)perylene	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Benzo(k)fluoranthene	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
bis(2-Chloroethyl)ether	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	<70	<70	<80 [<80]	<70 [<70]	140	<70	<70	<70	<80	<200	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Caprolactam	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Carbazole	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Chrysene	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Dibenz(a,h)anthracene	ug/kg	<70	<70	<80 [<80]	<70 [<70]	<80	<70	<70	<70	<80	<200	NA	NA	NA
Dibenzofuran	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Diethyl phthalate	ug/kg	<70	<70	<80 [<80]	<70 [<70]	<80	<70	<70	<70	<80	<200	NA	NA	NA
Dimethyl phthalate	ug/kg	<110 B	<170 B	<60 B [<60 B]	<90 B [<40 B]	<110 B	<70 B	<90 B	<90 B	<80 B	<100	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/kg	<70	<70	<80 [<80]	<70 [<70]	<80	<70	<70	<70	<80	<200	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/kg	<70	<70	<80 [<80]	<70 [<70]	<80	<70	<70	<70	<80	<200	NA	NA	NA
Fluoranthene	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Fluorene	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Hexachlorobenzene	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Hexachlorobutadiene	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Hexachlorocyclopentadiene	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Hexachloroethane	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Isophorone	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Nitrobenzene	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
N-Nitrosodiphenylamine	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Pentachlorophenol	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Phenanthrene	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Phenol	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA
Pyrene	ug/kg	<40	<40	<40 [<40]	<40 [<40]	<40	<40	<40	<40	<40	<100	NA	NA	NA

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	VAP-A9-RR209	VAP-A9-RR209	VAP-A9-RR209	VAP-A9-RR209	VAP-A9-RR209	VAP-A9-RR209	VAP-A9-RR209	VAP-A9-RR209	VAP-A9-RR209	VAP-A9-RR209	VAP-P6S-SY103	VEW-5	VEW-5	VEW-5
		12 - 13	17 - 18	22 - 23	27 - 28	30 - 30.5	35 - 36	40 - 41	45 - 46	54 - 55	1 - 2	3 - 4	10 - 11	19 - 20	
		06/04/12	06/04/12	06/05/12	06/05/12	06/05/12	06/05/12	06/05/12	06/05/12	06/05/12	06/05/12	09/14/12	08/08/11	08/08/11	08/08/11
PCBs															
Aroclor-1016 (PCB-1016)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.24	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.70	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	71.2	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.9	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.31	NA	NA	NA
Chromium VI (hexavalent)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.49	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.79	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.01	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.8 ¹	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	248	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0548	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.38	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.19	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.06	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.6	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.2	NA	NA	NA
Miscellaneous															
Total solids	%	89	91	86 [87]	95 [93]	83	90	90	90	83	82	NA	NA	NA	NA

Table 16
RFI Phase 2 Summary Report
RACER - Lansing Plant 6
Summary of Soil Sample Analytical Results

Table Notes:

- (1) Adjusted by a factor of 0.43 for a 100-acre source area.
 -- Shading indicates result exceeding one or more MDEQ Part 201 Generic Cleanup Criteria and Screening Levels, Dated March 25, 2011.
 -- Bold fonts represent data where detections were noted above the MDL but below MDEQ Part 201 Generic Cleanup Criteria.
 -- Data shown in [] represent duplicate sample analytical results.
 mg/kg - milligrams per kilogram
 µg/kg - micrograms per kilogram
 * - Sample was analyzed in on-site lab with instruments calibrated to screening mode. This data was not validated
 ** - Sample collected by others and analytical reports provided to ARCADIS. This data was not validated
^a - Sample exceeds Residential Drinking Water Protection Criteria
^b - Sample exceeds Groundwater Surface Water Interface Protection Criteria
^c - Sample exceeds Groundwater Contact Protection Criteria
^d - Sample exceeds Non-Residential Soil Volatilization to Indoor Air Criteria
^e - Sample exceeds Non-Residential Infinite Source Volatile Soil Inhalation Criteria
^f - Sample exceeds Non-Residential Direct Contact Criteria
^g - Sample exceeds Non-Residential Particulate Soil Inhalation Criteria
^h - Sample exceeds Soil Saturation Levels
ⁱ - Sample exceeds Statewide Background Default Levels

MDEQ Criteria Footnotes: (as revised September 28, 2012)

- = Not listed in MDEQ Criteria Tables.
 ID = Insufficient data to develop a criterion.
 NA = Not available.
 NLL = Not likely to leach.
 NLV = Not likely to volatilize.
 C = Value presented is a screening level based on the chemical-specific generic soil saturation concentration (C_{sat}) since the calculated risk-based criterion is greater than C_{sat}.
 D = Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb).
 G = Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. A hardness value of 257 mg/L was used.
 M = Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.
 T = Refer to the federal Toxic Substances Control Act (TSCA), 40 C.F.R. §761, Subpart D and 40 C.F.R. §761, Subpart G, to determine the applicability of TSCA cleanup standards.
 W = Concentrations of trihalomethanes in soil shall be added together to determine compliance with the drinking water protection criterion of 1,600 µg/kg.
 X = The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source.
 DD = Hazardous substance causes developmental effects. Residential direct contact criteria are protective of both prenatal and postnatal exposure. Nonresidential direct contact criteria are protective for a pregnant adult receptor.

Lab Data Qualifiers:

- B = Compounds also found in associated method blank
 D = Compound quantified using a secondary dilution
 E = Analyte exceeds calibration range
 I = Matrix interference with internal standard
 J = The compound/constituent was positively identified; however, the associated numerical value is an estimated concentration only.
 K = Elevated reporting limits due to low total solids
 N = Normal Sample
 p = Benzo(b)fluoranthene and Benzo(k)fluoranthene integrated as one peak
 R = Rejected
 S = Surrogate recovery outside of control limits
 T = No correction for Total Solids
 UJ = The analyte was not detected above the quantitation limits, however the quantitation limits is estimated
 U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 X = Elevated reporting limit due to matrix interference
 z = Sample preserved in the lab

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		Residential Drinking Water Criteria ^(a)	Groundwater Surface Water Interface Criteria ^(b)	Groundwater Contact Criteria ^(c)	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria ^(d)	Water Solubility Levels ^(e)	Flammability and Explosivity Screening	Acute Inhalation Screening Levels ^(g)	Non-Residential Groundwater Concentrations for Vapor Intrusion ^(h)	B-BP-16 7 - 12 10/13/11	B-BP-16 7 - 12 12/20/12	MW-02-01(6) 35 - 45 10/17/11	MW-02-01(6) 35 - 45 12/21/12	MW-02-02(6) 74 - 84 10/18/11	MW-02-02(6) 74 - 84 12/21/12	MW-02-03(6) 79 - 89 10/18/11
	Units															
Volatile Organics																
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.2(A)	ID	390	1,200(S)	1,230	NA	ID	280	<0.05	<1	<0.05	<1	<0.05	<1	<0.05
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.05(A)	5.7(X)	25	15,000	4.20E+06	ID	ID	11	<0.02	<1	<0.02	<1	<0.02	<1	<0.02
1,2-Dichlorobenzene	ug/L	600(A)	13	1.60E+05(S)	1.60E+05(S)	1.56E+05	NA	1.60E+05(S)	32,000	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	ug/L	75(A)	17	6,400	74,000(S)	73,800	NA	ID	250	<1	<1	<1	<1	<1	<1	<1
2-Hexanone	ug/L	1,000	ID	5.20E+06	8.70E+06	1.60E+07	NA	ID	87,000	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	730	1,700	3.10E+07	1.00E+09(D,S)	1.00E+09	1.50E+07	1.00E+09(D)	3.40E+07	17	<10	<10 J	<10	<10 J	<10	<10 J
Bromodichloromethane	ug/L	80(A,W)	ID	14,000	37,000	6.74E+06	ID	ID	110	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	80(A,W)	ID	1.40E+05	3.10E+06(S)	3.10E+06	ID	ID	7,200	<1	<1	<1	<1	<1	<1	<1
Bromomethane (Methyl bromide)	ug/L	10	35	70,000	9,000	1.45E+07	ID	ID	140	<1	<1	<1	<1	<1	<1	<1
Carbon disulfide	ug/L	800	ID	1.20E+06(S)	5.50E+05	1.19E+06	13,000	ID	9,900	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	5(A)	45(X)	4,600	2,400	7.93E+05	ID	96,000	26	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	100(A)	25	86,000	4.70E+05(S)	4.72E+05	1.60E+05	ID	4,600	<1	<1	<1	<1	<1	<1	<1
Chloroform (Trichloromethane)	ug/L	80(A,W)	350	1.50E+05	1.80E+05	7.92E+06	ID	ID	480	<1	<1	<1	<1	<1	<1	<1
Chloromethane (Methyl chloride)	ug/L	260	ID	4.90E+05	45,000	6.34E+06	36,000	2.10E+05	750	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	8.5	9(X)	5,500	26,000	2.80E+06	1.30E+05	ID	300	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane (CFC-12)	ug/L	1,700	ID	3.00E+05(S)	3.00E+05(S)	3.00E+05	ID	ID	29,000	<1	<1	<1	<1	<1	<1	<1
Methyl acetate	ug/L	--	--	--	--	--	--	--	--	<10	<10	<10	<10	<10	<10	<10
Methylene chloride	ug/L	5(A)	1,500(X)	2.20E+05	1.40E+06	1.70E+07	ID	ID	2,800	<1	<1	<1	<1	<1	<1	<1
Styrene	ug/L	100(A)	80(X)	9,700	3.10E+05(S)	3.10E+05	1.40E+05	3.10E+05(S)	2,700	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	8.5	9(X)	5,500	26,000	2.80E+06	1.30E+05	ID	300	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane (CFC-11)	ug/L	2,600	NA	1.10E+06(S)	1.10E+06(S)	1.10E+06	ID	1.10E+06(S)	1.20E+05	<1	<1	<1	<1	<1	<1	<1
Trifluorotrichloroethane (Freon 113)	ug/L	1.70E+05(S)	32	1.70E+05(S)	1.70E+05(S)	1.70E+05	ID	1.70E+05(S)	30,000	<1	<1	<1	<1	<1	<1	<1
1,4-Dioxane	ug/L	85	2,800(X)	1.70E+06	NLV	9.00E+08	1.40E+08	ID	--	<5	<5	26	25	21	20	13
1,1,1-Trichloroethane	ug/L	200(A)	89	1.30E+06(S)	1.30E+06(S)	1.33E+06	ID	1.30E+06(S)	12,000	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	8.5	78(X)	4,700	77,000	2.97E+06	ID	ID	200	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	5(A)	330(X)	21,000	1.10E+05	4.42E+06	NA	ID	320	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	880	740	2.40E+06	2.30E+06	5.06E+06	3.80E+05	ID	18,000	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	7(A)	130	11,000	1,300	2.25E+06	97,000	1.40E+05	1,600	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	5(A)	360(X)	19,000	59,000	8.52E+06	2.50E+06	ID	140	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	70(A)	620	2.00E+05	2.10E+05	3.50E+06	5.30E+05	ID	1,700	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	ug/L	100(A)	1,500(X)	2.20E+05	2.00E+05	6.30E+06	2.30E+05	ID	1,500	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	ug/L	5(A)	200(X)	22,000	4,900	1.10E+06	ID	1.10E+06(S)	41	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	ug/L	5(A)	60(X)	12,000	1.70E+05	2.00E+05	ID	2.00E+05(S)	460	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	ug/L	2(A)	13(X)	1,000	13,000	2.76E+06	33,000	ID	35	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	430	1,100(X)	4.40E+05	5.70E+06(S)	5.74E+06	1.10E+05	ID	1.80E+05	<1	<1	<1	<1	<1	<1	<1
Benzene	ug/L	5(A)	200(X)	11,000	35,000	1.75E+06	68,000	67,000	92	67 ^a	4	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	74(E)	18	1.70E+05(S)	1.70E+05(S)	1.69E+05	43,000	1.70E+05(S)	1,700	2	<1	<1	<1	<1	<1	<1
Toluene	ug/L	790(E)	270	5.30E+05(S)	5.30E+05(S)	5.26E+05	61,000	ID	1.50E+05	4	<1	<1	<1	<1	<1	<1
o-Xylene	ug/L	280(E)	41	1.90E+05(S)	1.90E+05(S)	1.86E+05	70,000	1.90E+05(S)	10,000d	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	ug/L	280(E)	41	1.90E+05(S)	1.90E+05(S)	1.86E+05	70,000	1.90E+05(S)	10,000d	<2	<2	<2	<2	<2	<2	<2
Xylene (total)	ug/L	280(E)	41	1.90E+05(S)	1.90E+05(S)	1.86E+05	70,000	1.90E+05(S)	10,000d	<3	<3	<3	<3	<3	<3	<3
Methyl tert butyl ether (MTBE)	ug/L	40(E)	7,100(X)	6.10E+05	4.70E+07(S)	4.68E+07	ID	ID	1.00E+06	<1	<1	<1	<1	<1	<1	<1
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	13,000	2,200	2.40E+08(S)	2.40E+08(S)	2.40E+08	ID	2.40E+08(S)	1.80E+07	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	1,800	ID	1.30E+07	2.00E+07(S)	2.00E+07	ID	2.00E+07(S)	4.40E+06	<10	<10	<10	<10	<10	<10	<10
1,2,4-Trichlorobenzene	ug/L	70(A)	99(X)	19,000	3.00E+05(S)	3.00E+05	NA	3.00E+05(S)	53,000	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	63(E)	17	56,000(S)	56,000(S)	55,890	56,000(S)	ID	7,300	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/L	72(E)	45	61,000(S)	61,000(S)	61,150	ID	ID	5,100	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/L	5(A)	230(X)	16,000	36,000	2.80E+06	5.50E+05	2.80E+06(S)	290	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	ug/L	6.6	28	2,000	41,000	1.11E+05	ID	ID	230	<1	<1	<1	<1	<1	<1	<1
Cyclohexane	ug/L	--	--	--	--	--	--	--	8,100	19	<1	<1	<1	<1	<1	<1
Methyl cyclohexane	ug/L	--	--	--	--	--	--	--	--	11	<1	<1	<1	<1	<1	<1
Dibromochloromethane	ug/L	80(A,W)	ID	18,000	1.10E+05	2.60E+06	ID	ID	220	<1	<1	<1	<1	<1	<1	<1
Isopropyl benzene	ug/L	800	28	56,000(S)	56,000(S)	56,000	29,000	ID	35	32 ^b	6	<1	<1	<1	<1	<1
Naphthalene	ug/L	520	11	31,000(S)	31,000(S)	31,000	NA	31,000(S)	800	NA	NA	NA	NA	NA	NA	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		Residential Drinking Water Criteria ^(a)	Groundwater Surface Water Interface Criteria ^(b)	Groundwater Contact Criteria ^(c)	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria ^(d)	Water Solubility Levels ^(e)	Flammability and Explosivity Screening	Acute Inhalation Screening Levels ^(g)	Non-Residential Groundwater Concentrations for Vapor Intrusion ^(h)	B-BP-16 7 - 12 10/13/11	B-BP-16 7 - 12 12/20/12	MW-02-01(6) 35 - 45 10/17/11	MW-02-01(6) 35 - 45 12/21/12	MW-02-02(6) 74 - 84 10/18/11	MW-02-02(6) 74 - 84 12/21/12	MW-02-03(6) 79 - 89 10/18/11
Units																
Semivolatile Organics																
2-Methyl-4,6-dinitrophenol	ug/L	20(M)	NA	9,500	NLV	2.00E+05	ID	ID	--	<1	<1	<1	<1	<1	<1	<1
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/L	--	--	--	--	--	--	--	--	<1	<1	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol	ug/L	120	5	10,000	NLV	8.00E+05	ID	ID	--	<1	<1	<1	<1	<1	<1	<1
2,4-Dichlorophenol	ug/L	73	11	48,000	NLV	4.50E+06	ID	ID	--	<1	<1	<1	<1	<1	<1	<1
2,4,5-Trichlorophenol	ug/L	730	NA	1.70E+05	NLV	1.20E+06	ID	ID	--	<1	<1	<1	<1	<1	<1	<1
2,4-Dimethylphenol	ug/L	370	380	5.20E+05	NLV	7.87E+06	ID	ID	--	<1	<1	<1	<1	<1	<1	<1
2,4-Dinitrophenol	ug/L	--	--	--	--	--	--	--	--	<1	<1	<1	<1	<1	<1	<1
2,4-Dinitrotoluene	ug/L	7.7	NA	8,600	NLV	2.70E+05	ID	ID	--	<1	<1	<1	<1	<1	<1	<1
2,6-Dinitrotoluene	ug/L	--	--	--	--	--	--	--	--	<1	<1	<1	<1	<1	<1	<1
2-Chloronaphthalene	ug/L	1,800	NA	6,700(S)	ID	6,740	ID	ID	ID	<1	<1	<1	<1	<1	<1	<1
2-Chlorophenol	ug/L	45	18	94,000	1.10E+06	2.20E+07	ID	ID	3.30E+05	<1	<1	<1	<1	<1	<1	<1
2-Methylnaphthalene	ug/L	260	19	25,000(S)	25,000(S)	24,600	ID	ID	3,900	<1	<1	<1	<1	<1	<1	<1
2-Methylphenol	ug/L	370	30(M)	8.10E+05	NLV	2.80E+07	NA	ID	--	<1	<1	<1	<1	<1	<1	<1
2-Nitroaniline	ug/L	--	--	--	--	--	--	--	--	<1	<1	<1	<1	<1	<1	<1
2-Nitrophenol	ug/L	20	ID	79,000	NLV	2.50E+06	ID	ID	ID	<1	<1	<1	<1	<1	<1	<1
3&4-Methylphenol	ug/L	370	30(M)	8.10E+05	NLV	2.80E+07	NA	ID	--	<1	<1	<1	<1	<1	<1	<1
3,3'-Dichlorobenzidine	ug/L	1.1	0.3(M)	180	NLV	3,110	ID	ID	--	<0.05	NA	<0.05	NA	<0.05	NA	<0.05
Naphthalene	ug/L	520	11	31,000(S)	31,000(S)	31,000	NA	31,000(S)	800	<1	<1	<1	<1	<1	<1	<1
3-Nitroaniline	ug/L	--	--	--	--	--	--	--	--	<1	<1	<1	<1	<1	<1	<1
4-Bromophenyl phenyl ether	ug/L	--	--	--	--	--	--	--	--	<1	<1	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol	ug/L	150	7.4	79,000	NLV	3.90E+06	ID	ID	--	<1	<1	<1	<1	<1	<1	<1
4-Chloroaniline	ug/L	--	--	--	--	--	--	--	--	<2	<1	<2	<1	<2	<1	<2
4-Chlorophenyl phenyl ether	ug/L	--	--	--	--	--	--	--	--	<1	<1	<1	<1	<1	<1	<1
4-Nitroaniline	ug/L	--	--	--	--	--	--	--	--	<1	<1	<1	<1	<1	<1	<1
4-Nitrophenol	ug/L	--	--	--	--	--	--	--	--	<1	<1	<1	<1	<1	<1	<1
Anthracene	ug/L	43(S)	ID	43(S)	43(S)	43.4	ID	ID	3.70E+06	<1	<1	<1	<1	<1	<1	<1
Acenaphthene	ug/L	1,300	38	4,200(S)	4,200(S)	4,240	ID	ID	2.30E+05	<1	<1	<1	<1	<1	<1	<1
Acenaphthylene	ug/L	52	ID	3,900(S)	3,900(S)	3,930	ID	ID	62,000	<1	<1	<1	<1	<1	<1	<1
Acetophenone	ug/L	1,500	ID	6.10E+06(S)	6.10E+06(S)	6.10E+06	ID	ID	9.60E+06	<1	<1	<1	<1	<1	<1	<1
Atrazine	ug/L	3(A)	7.3	5,400	NLV	70,000	ID	ID	--	<1	<1	<1	<1	<1	<1	<1
Benzaldehyde	ug/L	--	--	--	--	--	--	--	--	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene	ug/L	2.1	ID	9.4(S,AA)	NLV	9.4	ID	ID	ID	<1	<1	<1	<1	<1	<1	<1
Benzo(a)pyrene	ug/L	5(A)	ID	1(M,AA)	NLV	1.62	ID	ID	--	<1	<1	<1	<1	<1	<1	<1
Benzo(b)fluoranthene	ug/L	1.5(S,AA)	ID	1.5(S,AA)	ID	1.5	ID	ID	--	<1	<1	<1	<1	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	1(M); 0.26(S)	ID	1(M,AA); 0.26(S)	NLV	0.26	ID	ID	--	<1	<1	<1	<1	<1	<1	<1
Benzo(k)fluoranthene	ug/L	1(M); 0.8(S)	NA	1(M,AA); 0.8(S)	NLV	0.8	ID	ID	--	<1	<1	<1	<1	<1	<1	<1
Biphenyl (1,1-Biphenyl)	ug/L	--	--	--	--	--	--	--	--	<1	<1	<1	<1	<1	<1	<1
bis(2-Chloroethoxy)methane	ug/L	--	--	--	--	--	--	--	--	<1	<1	<1	<1	<1	<1	<1
bis(2-Chloroethyl)ether	ug/L	2	1(M)	5,700	2.10E+05	1.72E+07	1.70E+07(S)	1.70E+07(S)	750	<1	<1	<1	<1	<1	<1	<1
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	6(A)	25	320(AA)	NLV	340	NA	340(S)	--	<2	<1	<2	<1	<2	<1	<2
Butyl benzylphthalate (BBP)	ug/L	1,200	67(X)	2,700(S)	NLV	2,690	ID	ID	--	<1	<1	<1	<1	<1	<1	<1
Caprolactam	ug/L	5,800	NA	3.90E+08	NLV	5.25E+09	NA	1.00E+09(D)	--	<1	<1	<1	<1	<1	<1	<1
Carbazole	ug/L	85	10(M)	7,400	NLV	7,480	ID	ID	--	<1	<1	<1	<1	<1	<1	<1
Chrysene	ug/L	1.6(S)	ID	1.6(S,AA)	ID	1.6	ID	ID	--	<1	<1	<1	<1	<1	<1	<1
Dibenz(a,h)anthracene	ug/L	2(M)	ID	2(M,AA)	NLV	2.49	ID	ID	--	<1	<2	<1	<2	<1	<2	<1
Dibenzofuran	ug/L	ID	4	ID	10,000(S)	10,000	ID	ID	96	<1	<1	<1	<1	<1	<1	<1
Diethyl phthalate	ug/L	5,500	110	1.10E+06(S)	NLV	1.08E+06	NA	ID	--	<2	<1	<2	<1	<2	<1	<2
Dimethyl phthalate	ug/L	73,000	NA	4.20E+06(S)	NLV	4.19E+06	NA	ID	--	<2	<1	<2	<1	<2	<1	<2
Di-n-butylphthalate (DBP)	ug/L	880	9.7	11,000(S)	NLV	11,200	NA	ID	--	<1	<1	<1	<1	<1	<1	<1
Di-n-octyl phthalate (DnOP)	ug/L	130	ID	400	NLV	3,000	ID	ID	--	<1	<1	<1	<1	<1	<1	<1
Fluoranthene	ug/L	210(S)	1.6	210(S)	210(S)	206	ID	ID	--	<1	<1	<1	<1	<1	<1	<1
Fluorene	ug/L	880	12	2,000(S)	2,000(S)	1,980	ID	ID	3.00E+05	<1	<1	<1	<1	<1	<1	<1
Hexachlorobenzene	ug/L	1(A)	0.2(M)	4.6	3,000	6,200	ID	ID	5.4	<0.05	NA	<0.05	NA	<0.05	NA	<0.05
Hexachlorobutadiene	ug/L	15	0.053	400	3,200(S)	3,230	ID	ID	19	<1	<1	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene	ug/L	50(A)	ID	1,600	420	1,800	ID	ID	50d	<1	<1	<1	<1	<1	<1	<1
Hexachloroethane	ug/L	7.3	6.7(X)	1,900	50,000(S)	50,000	ID	ID	180	<1	<1	<1	<1	<1	<1	<1
Indeno(1,2,3-cd)pyrene	ug/L	2(M); 0.022(S)	ID	2(M,AA); 0.022(S)	NLV	0.022	ID	ID	--	<1	<1	<1	<1	<1	<1	<1
Isophorone	ug/L	770	1,300(X)	9.90E+05	NLV	1.20E+07	ID	1.20E+07(S)	--	<1	<1	<1	<1	<1	<1	<1
Nitrobenzene	ug/L	3.4	180(X)	11,000	5.50E+05	2.09E+06	NA	ID	4,400	<1	<1	<1	<1	<1	<1	<1
N-Nitrosodi-n-propylamine	ug/L	5(M)	NA	360	NLV	9.89E+06	ID	ID	--	<1	<1	<1	<1	<1	<1	<1
N-Nitrosodiphenylamine	ug/L	270	NA	35,000(S)	NLV	35,100	ID	ID	--	<1	<1	<1	<1	<1	<1	<1
Pentachlorophenol	ug/L	1(A)	1.8(G,X)	200	NLV	1.85E+06	ID	ID	--	<1	<1	<1	<1	<1	<1	<1
Phenanthrene	ug/L	52	2(M)	1,000(S)	1,000(S)	1,000	ID	ID	480	<1	<1	<1	<1	<1	<1	<1
Phenol	ug/L	4,400	450	2.90E+07	NLV	8.28E+07	NA	ID	--	<1	<1	<1	<1	1	<1	<1
Pyrene	ug/L	140(S)	ID	140(S)	140(S)	135	ID	ID	1.70E+06	<1	<1	<1	<1	<1	<1	<1

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		Residential Drinking Water Criteria ^(a)	Groundwater Surface Water Interface Criteria ^(b)	Groundwater Contact Criteria ^(c)	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria ^(d)	Water Solubility Levels ^(e)	Flammability and Explosivity Screening	Acute Inhalation Screening Levels ^(g)	Non-Residential Groundwater Concentrations for Vapor Intrusion ^(h)	B-BP-16 7 - 12 10/13/11	B-BP-16 7 - 12 12/20/12	MW-02-01(6) 35 - 45 10/17/11	MW-02-01(6) 35 - 45 12/21/12	MW-02-02(6) 74 - 84 10/18/11	MW-02-02(6) 74 - 84 12/21/12	MW-02-03(6) 79 - 89 10/18/11
Units																
Semivolatile Organics-Filtered																
2-Methyl-4,6-dinitrophenol	ug/L	20(M)	NA	9,500	NLV	2.00E+05	ID	ID	--	NA	NA	NA	NA	NA	<1	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	<1	NA
2,4,6-Trichlorophenol	ug/L	120	5	10,000	NLV	8.00E+05	ID	ID	--	NA	NA	NA	NA	NA	<1	NA
2,4-Dichlorophenol	ug/L	73	11	48,000	NLV	4.50E+06	ID	ID	--	NA	NA	NA	NA	NA	<1	NA
2,4,5-Trichlorophenol	ug/L	730	NA	1.70E+05	NLV	1.20E+06	ID	ID	--	NA	NA	NA	NA	NA	<1	NA
2,4-Dimethylphenol	ug/L	370	380	5.20E+05	NLV	7.87E+06	ID	ID	--	NA	NA	NA	NA	NA	<1	NA
2,4-Dinitrophenol	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	<1	NA
2,4-Dinitrotoluene	ug/L	7.7	NA	8,600	NLV	2.70E+05	ID	ID	--	NA	NA	NA	NA	NA	<1	NA
2,6-Dinitrotoluene	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	<1	NA
2-Chloronaphthalene	ug/L	1,800	NA	6,700(S)	ID	6,740	ID	ID	ID	NA	NA	NA	NA	NA	<1	NA
2-Chlorophenol	ug/L	45	18	94,000	1.10E+06	2.20E+07	ID	ID	3.30E+05	NA	NA	NA	NA	NA	<1	NA
2-Methylnaphthalene	ug/L	260	19	25,000(S)	25,000(S)	24,600	ID	ID	3,900	NA	NA	NA	NA	NA	<1	NA
2-Methylphenol	ug/L	370	30(M)	8.10E+05	NLV	2.80E+07	NA	ID	--	NA	NA	NA	NA	NA	<1	NA
2-Nitroaniline	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	<1	NA
2-Nitrophenol	ug/L	20	ID	79,000	NLV	2.50E+06	ID	ID	ID	NA	NA	NA	NA	NA	<1	NA
3&4-Methylphenol	ug/L	370	30(M)	8.10E+05	NLV	2.80E+07	NA	ID	--	NA	NA	NA	NA	NA	<1	NA
Naphthalene	ug/L	520	11	31,000(S)	31,000(S)	31,000	NA	31,000(S)	800	NA	NA	NA	NA	NA	<1	NA
3-Nitroaniline	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	<1	NA
4-Bromophenyl phenyl ether	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	<1	NA
4-Chloro-3-methylphenol	ug/L	150	7.4	79,000	NLV	3.90E+06	ID	ID	--	NA	NA	NA	NA	NA	<1	NA
4-Chloroaniline	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	<2	NA
4-Chlorophenyl phenyl ether	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	<1	NA
4-Nitroaniline	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	<1	NA
4-Nitrophenol	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	<1	NA
Anthracene	ug/L	43(S)	ID	43(S)	43(S)	43.4	ID	ID	3.70E+06	NA	NA	NA	NA	NA	<1	NA
Acenaphthene	ug/L	1,300	38	4,200(S)	4,200(S)	4,240	ID	ID	2.30E+05	NA	NA	NA	NA	NA	<1	NA
Acenaphthylene	ug/L	52	ID	3,900(S)	3,900(S)	3,930	ID	ID	62,000	NA	NA	NA	NA	NA	<1	NA
Acetophenone	ug/L	1,500	ID	6.10E+06(S)	6.10E+06(S)	6.10E+06	ID	ID	9.60E+06	NA	NA	NA	NA	NA	<1	NA
Atrazine	ug/L	3(A)	7.3	5,400	NLV	70,000	ID	ID	--	NA	NA	NA	NA	NA	<1	NA
Benzaldehyde	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	<1	NA
Benzo(a)anthracene	ug/L	2.1	ID	9.4(S,AA)	NLV	9.4	ID	ID	ID	NA	NA	NA	NA	NA	<1	NA
Benzo(a)pyrene	ug/L	5(A)	ID	1(M,AA)	NLV	1.62	ID	ID	--	NA	NA	NA	NA	NA	<1	NA
Benzo(b)fluoranthene	ug/L	1.5(S,AA)	ID	1.5(S,AA)	ID	1.5	ID	ID	--	NA	NA	NA	NA	NA	<1	NA
Benzo(g,h,i)perylene	ug/L	1(M); 0.26(S)	ID	1(M,AA); 0.26(S)	NLV	0.26	ID	ID	--	NA	NA	NA	NA	NA	<1	NA
Benzo(k)fluoranthene	ug/L	1(M); 0.8(S)	NA	1(M,AA); 0.8(S)	NLV	0.8	ID	ID	--	NA	NA	NA	NA	NA	<1	NA
Biphenyl (1,1-Biphenyl)	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	<1	NA
bis(2-Chloroethoxy)methane	ug/L	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	<1	NA
bis(2-Chloroethyl)ether	ug/L	2	1(M)	5,700	2.10E+05	1.72E+07	1.70E+07(S)	1.70E+07(S)	750	NA	NA	NA	NA	NA	<1	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	6(A)	25	320(AA)	NLV	340	NA	340(S)	--	NA	NA	NA	NA	NA	<2	NA
Butyl benzylphthalate (BBP)	ug/L	1,200	67(X)	2,700(S)	NLV	2,690	ID	ID	--	NA	NA	NA	NA	NA	<1	NA
Caprolactam	ug/L	5,800	NA	3.90E+08	NLV	5.25E+09	NA	1.00E+09(D)	--	NA	NA	NA	NA	NA	<1	NA
Carbazole	ug/L	85	10(M)	7,400	NLV	7,480	ID	ID	--	NA	NA	NA	NA	NA	<1	NA
Chrysene	ug/L	1.6(S)	ID	1.6(S,AA)	ID	1.6	ID	ID	--	NA	NA	NA	NA	NA	<1	NA
Dibenz(a,h)anthracene	ug/L	2(M)	ID	2(M,AA)	NLV	2.49	ID	ID	--	NA	NA	NA	NA	NA	<1	NA
Dibenzofuran	ug/L	ID	4	ID	10,000(S)	10,000	ID	ID	96	NA	NA	NA	NA	NA	<1	NA
Diethyl phthalate	ug/L	5,500	110	1.10E+06(S)	NLV	1.08E+06	NA	ID	--	NA	NA	NA	NA	NA	<2	NA
Dimethyl phthalate	ug/L	73,000	NA	4.20E+06(S)	NLV	4.19E+06	NA	ID	--	NA	NA	NA	NA	NA	<2	NA
Di-n-butylphthalate (DBP)	ug/L	880	9.7	11,000(S)	NLV	11,200	NA	ID	--	NA	NA	NA	NA	NA	<1	NA
Di-n-octyl phthalate (DnOP)	ug/L	130	ID	400	NLV	3,000	ID	ID	--	NA	NA	NA	NA	NA	<1	NA
Fluoranthene	ug/L	210(S)	1.6	210(S)	210(S)	206	ID	ID	--	NA	NA	NA	NA	NA	<1	NA
Fluorene	ug/L	880	12	2,000(S)	2,000(S)	1,980	ID	ID	3.00E+05	NA	NA	NA	NA	NA	<1	NA
Hexachlorobutadiene	ug/L	15	0.053	400	3,200(S)	3,230	ID	ID	19	NA	NA	NA	NA	NA	<1	NA
Hexachlorocyclopentadiene	ug/L	50(A)	ID	1,600	420	1,800	ID	ID	50d	NA	NA	NA	NA	NA	<1	NA
Hexachloroethane	ug/L	7.3	6.7(X)	1,900	50,000(S)	50,000	ID	ID	180	NA	NA	NA	NA	NA	<1	NA
Indeno(1,2,3-cd)pyrene	ug/L	2(M); 0.022(S)	ID	2(M,AA); 0.022(S)	NLV	0.022	ID	ID	--	NA	NA	NA	NA	NA	<1	NA
Isophorone	ug/L	770	1,300(X)	9.90E+05	NLV	1.20E+07	ID	1.20E+07(S)	--	NA	NA	NA	NA	NA	<1	NA
Nitrobenzene	ug/L	3.4	180(X)	11,000	5.50E+05	2.09E+06	NA	ID	4,400	NA	NA	NA	NA	NA	<1	NA
N-Nitrosodi-n-propylamine	ug/L	5(M)	NA	360	NLV	9.89E+06	ID	ID	--	NA	NA	NA	NA	NA	<1	NA
N-Nitrosodiphenylamine	ug/L	270	NA	35,000(S)	NLV	35,100	ID	ID	--	NA	NA	NA	NA	NA	<1	NA
Pentachlorophenol	ug/L	1(A)	1.8(G,X)	200	NLV	1.85E+06	ID	ID	--	NA	NA	NA	NA	NA	<1	NA
Phenanthrene	ug/L	52	2(M)	1,000(S)	1,000(S)	1,000	ID	ID	480	NA	NA	NA	NA	NA	<1	NA
Phenol	ug/L	4,400	450	2.90E+07	NLV	8.28E+07	NA	ID	--	NA	NA	NA	NA	NA	<1	NA
Pyrene	ug/L	140(S)	ID	140(S)	140(S)	135	ID	ID	1.70E+06	NA	NA	NA	NA	NA	<1	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		Residential Drinking Water Criteria ^(a)	Groundwater Surface Water Interface Criteria ^(b)	Groundwater Contact Criteria ^(c)	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria ^(d)	Water Solubility Levels ^(e)	Flammability and Explosivity Screening	Acute Inhalation Screening Levels ^(g)	Non-Residential Groundwater Concentrations for Vapor Intrusion ^(h)	B-BP-16 7 - 12 10/13/11	B-BP-16 7 - 12 12/20/12	MW-02-01(6) 35 - 45 10/17/11	MW-02-01(6) 35 - 45 12/21/12	MW-02-02(6) 74 - 84 10/18/11	MW-02-02(6) 74 - 84 12/21/12	MW-02-03(6) 79 - 89 10/18/11
Units																
PCBs																
Aroclor-1016 (PCB-1016)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor-1221 (PCB-1221)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05
Aroclor-1232 (PCB-1232)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05
Aroclor-1242 (PCB-1242)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05
Aroclor-1248 (PCB-1248)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05
Aroclor-1254 (PCB-1254)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05
Aroclor-1260 (PCB-1260)	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total PCBs	ug/L	0.5(A)	0.2(M); 2.6E-5	3.3(AA)	45(S)	44.7	ID	ID	25	<0.05	ND	<0.05	ND	<0.05	ND	<0.05
Inorganics																
Antimony	mg/L	0.006(A)	0.13(X)	68	NLV	NA	ID	ID	--	0.006	<0.002	0.005	<0.002	<0.002	<0.002	<0.002
Arsenic	mg/L	0.01(A)	0.01	4.3	NLV	NA	ID	ID	--	0.037 ^{ab}	0.003	0.014 ^{ab}	0.036 ^{ab}	0.025 ^{ab}	0.051 ^{ab}	0.007
Barium	mg/L	2(A)	1.2(G)	14,000	NLV	NA	ID	ID	--	0.156	0.243	0.941	1.18	0.854	1.08	0.944
Beryllium	mg/L	0.004(A)	0.026(G)	290	NLV	NA	ID	ID	--	<0.001	NA	<0.001	NA	<0.001	NA	<0.001
Boron	mg/L	0.5(F)	7.2(X)	62,000	NLV	NA	ID	ID	--	0.10	0.10	0.12	0.12	0.06	0.07	0.05
Cadmium	mg/L	0.005(A)	0.0045(G,X)	190	NLV	NA	ID	ID	--	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium VI (hexavalent)	mg/L	0.1(A)	0.011(G,X)	460	NLV	NA	ID	ID	--	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	0.1(A)	0.16(G,X)	2.90E+05	NLV	NA	ID	ID	--	<0.010	<0.010	<0.010	<0.010	<0.010	0.013	<0.010
Cobalt	mg/L	0.04	0.1	2,400	NLV	NA	ID	ID	--	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Copper	mg/L	1(E)	0.02(G)	7,400	NLV	NA	ID	ID	--	0.004	0.006	0.065 J ^b	0.010	0.003 J	0.009	<0.002 J
Lead	mg/L	0.004(L)	0.044(G,X)	ID	NLV	NA	ID	ID	--	<0.002	0.003	0.016 J ^a	0.003	<0.002 J	0.005 ^a	<0.002 J
Manganese	mg/L	0.05(E)	4.5(G,X)	9,100	NLV	NA	ID	ID	--	0.301 ^a	0.485 ^a	0.103 J ^a	0.170 ^a	0.119 J ^a	0.478 ^a	0.201 J ^a
Mercury	mg/L	0.002(A)	0.0000013	0.056(S)	0.056(S)	0.056	ID	ID	--	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Nickel	mg/L	0.1(A)	0.12(G)	74,000	NLV	NA	ID	ID	--	<0.010	<0.010	<0.010 J	0.021	<0.010 J	0.025	<0.010 J
Selenium	mg/L	0.05(A)	0.005	970	NLV	NA	ID	ID	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Silver	mg/L	0.034	0.0002(M)	1,500	NLV	NA	ID	ID	--	<0.0002 J	<0.0002	0.0003 ^b	<0.0002	<0.0002	<0.0002	0.0003 ^b
Thallium	mg/L	0.002(A)	0.0037(X)	13	NLV	NA	ID	ID	--	<0.002	NA	<0.002	NA	<0.002	NA	<0.002
Vanadium	mg/L	0.0045	0.027	970	NLV	NA	ID	ID	--	0.008 ^a	0.006 ^a	0.002	<0.002	<0.002	0.005 ^a	<0.002
Zinc	mg/L	2.4	0.26(G)	1.10E+05	NLV	NA	ID	ID	--	0.05	0.032	0.095	0.030	0.015	0.047	0.015
Inorganics-Filtered																
Antimony (dissolved)	mg/L	0.006(A)	0.13(X)	68	NLV	NA	ID	ID	--	0.006	NA	0.005	NA	<0.002	<0.002	<0.002
Arsenic (dissolved)	mg/L	0.01(A)	0.01	4.3	NLV	NA	ID	ID	--	0.037 ^{ab}	NA	0.002	NA	0.003	0.033 ^{ab}	<0.002
Barium (dissolved)	mg/L	2(A)	1.2(G)	14,000	NLV	NA	ID	ID	--	0.155	NA	0.915	NA	0.826	1.06	0.901
Beryllium (dissolved)	mg/L	0.004(A)	0.026(G)	290	NLV	NA	ID	ID	--	<0.001	NA	<0.001	NA	<0.001	NA	<0.001
Boron	mg/L	0.5(F)	7.2(X)	62,000	NLV	NA	ID	ID	--	0.11	NA	0.12	NA	0.06	0.06	0.05
Cadmium (dissolved)	mg/L	0.005(A)	0.0045(G,X)	190	NLV	NA	ID	ID	--	<0.001	NA	<0.001	NA	<0.001	<0.001	<0.001
Chromium Total	mg/L	0.1(A)	0.16(G,X)	2.90E+05	NLV	NA	ID	ID	--	<0.010	NA	<0.010	NA	<0.010	<0.010	<0.010
Cobalt (dissolved)	mg/L	0.04	0.1	2,400	NLV	NA	ID	ID	--	<0.010	NA	<0.010	NA	<0.010	<0.010	<0.010
Copper (dissolved)	mg/L	1(E)	0.02(G)	7,400	NLV	NA	ID	ID	--	<0.002	NA	0.008	NA	<0.002	<0.002	<0.002
Lead (dissolved)	mg/L	0.004(L)	0.044(G,X)	ID	NLV	NA	ID	ID	--	<0.002	NA	<0.002	NA	<0.002	<0.002	<0.002
Manganese (dissolved)	mg/L	0.05(E)	4.5(G,X)	9,100	NLV	NA	ID	ID	--	0.276 ^a	NA	0.094 J ^a	NA	0.151 J ^a	0.111 ^a	0.193 J ^a
Mercury (dissolved)	mg/L	0.002(A)	0.0000013	0.056(S)	0.056(S)	0.056	ID	ID	--	<0.0001	NA	<0.0001	NA	<0.0001	<0.0001	<0.0001
Nickel (dissolved)	mg/L	0.1(A)	0.12(G)	74,000	NLV	NA	ID	ID	--	0.011	NA	<0.010	NA	<0.010	<0.010	<0.010
Selenium (dissolved)	mg/L	0.05(A)	0.005	970	NLV	NA	ID	ID	--	<0.002	NA	<0.002	NA	<0.002	<0.002	<0.002
Silver (dissolved)	mg/L	0.034	0.0002(M)	1,500	NLV	NA	ID	ID	--	<0.0002	NA	<0.0002	NA	0.0002	<0.0002	0.0002
Thallium (dissolved)	mg/L	0.002(A)	0.0037(X)	13	NLV	NA	ID	ID	--	<0.002	NA	<0.002	NA	<0.002	NA	<0.002
Vanadium (dissolved)	mg/L	0.0045	0.027	970	NLV	NA	ID	ID	--	0.008 ^a	NA	<0.002	NA	<0.002	<0.002	<0.002
Zinc (dissolved)	mg/L	2.4	0.26(G)	1.10E+05	NLV	NA	ID	ID	--	<0.010	NA	0.052	NA	0.027	<0.010	0.018

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		MW-02-03(6) 79 - 89 01/02/13	MW-03-01 28 - 32 10/17/11	MW-03-01 28 - 32 12/20/12	MW-03-02 30 - 40 10/17/11	MW-03-02 30 - 40 12/19/12	MW-03-04 33 - 43 10/17/11	MW-03-04 33 - 43 12/20/12	MW-03-05 35 - 45 12/02/11	MW-03-05 35 - 45 12/19/12	MW-03-06 30 - 40 10/07/11	MW-03-06 30 - 40 01/03/13	MW-03-07 30 - 40 10/18/11	MW-03-07 30 - 40 12/20/12	MW-03-08 35 - 45 12/02/11	MW-03-08 35 - 45 01/02/13	MW-04-01(6) 78 - 88 10/18/11	MW-04-01(6) 78 - 88 01/03/13	MW-04-05(6) 20 - 30 10/13/11
	Units																		
Volatile Organics																			
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	<1	<0.05	<1	<0.05	<1	<0.05 J	<1	<0.05 J	<1	<0.05	<1	<0.05	<1	<0.05 J	<1	<0.05	<1	<0.05 J
1,2-Dibromoethane (Ethylene dibromide)	ug/L	<1	<0.02	<1	<0.02	<1	<0.02	<1	<0.02	<1	<0.02	<1	<0.02	<1	<0.02	<1	<0.02	<1	<0.02
1,2-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Hexanone	ug/L	<10	<10	<10	<10	<10 J	<10	<10	<10	<10 J	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<10	<10	<10	<10	<10 J	<10	<10	<10	<10 J	<10	<10	<10 J	<10	10	<10	<10 J	<10	<10
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane (Methyl bromide)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform (Trichloromethane)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane (Methyl chloride)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane (CFC-12)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl acetate	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methylene chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane (CFC-11)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trifluorotrichloroethane (Freon 113)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dioxane	ug/L	13	<5	<5	<5	<5	54	46	<5	<5	10	10	28	27	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1
trans-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	ug/L	1	<1	<1	<1	<1	<1	<1	1	<1	4^a	12^a	<1	<1	<1	<1	<1	<1	1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Xylene (total)	ug/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Methyl tert butyl ether (MTBE)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	<10	<10	<10	<10	<10 J	<10	<10	<10	<10 J	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2,4-Trichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cyclohexane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl cyclohexane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropyl benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		MW-02-03(6) 79 - 89 01/02/13	MW-03-01 28 - 32 10/17/11	MW-03-01 28 - 32 12/20/12	MW-03-02 30 - 40 10/17/11	MW-03-02 30 - 40 12/19/12	MW-03-04 33 - 43 10/17/11	MW-03-04 33 - 43 12/20/12	MW-03-05 35 - 45 12/02/11	MW-03-05 35 - 45 12/19/12	MW-03-06 30 - 40 10/07/11	MW-03-06 30 - 40 01/03/13	MW-03-07 30 - 40 10/18/11	MW-03-07 30 - 40 12/20/12	MW-03-08 35 - 45 12/02/11	MW-03-08 35 - 45 01/02/13	MW-04-01(6) 78 - 88 10/18/11	MW-04-01(6) 78 - 88 01/03/13	MW-04-05(6) 20 - 30 10/13/11
Units																			
Semivolatile Organics																			
2-Methyl-4,6-dinitrophenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/L	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dichlorophenol	ug/L	<1	<1	<1J	<1	<1	<1	<1	<1	<1J	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4,5-Trichlorophenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dimethylphenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dinitrophenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dinitrotoluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,6-Dinitrotoluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chloronaphthalene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorophenol	ug/L	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylnaphthalene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylphenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Nitroaniline	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Nitrophenol	ug/L	<1	<1	<1	<1	<1J	<1	<1	<1	<1J	<1	<1	<1	<1	<1	<1	<1	<1	<1
3&4-Methylphenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
3,3'-Dichlorobenzidine	ug/L	NA	<0.05	NA	<0.05	NA	<0.05	NA	<0.05	NA	<0.05	NA	<0.05	NA	<0.05	NA	<0.05	NA	<0.05
Naphthalene	ug/L	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
3-Nitroaniline	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Bromophenyl phenyl ether	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloroaniline	ug/L	<1	<2	<1	<2	<1J	<2	<1	<2 J	<1J	<2	<1	<2	<1	<2 J	<1	<2	<1	<2
4-Chlorophenyl phenyl ether	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitroaniline	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitrophenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Anthracene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Acenaphthene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Acenaphthylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Acetophenone	ug/L	<1	<1	<1	<1	<1J	<1 J	<1	<1	<1J	<1	<1	<1	<1	<1	<1	<1	<1	<1
Atrazine	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzaldehyde	ug/L	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)pyrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(b)fluoranthene	ug/L	<1	<1	<1	<1	<1J	<1	<1	<1	<1J	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(k)fluoranthene	ug/L	<1	<1	<1	<1	<1J	<1	<1	<1	<1J	<1	<1	<1	<1	<1	<1	<1	<1	<1
Biphenyl (1,1-Biphenyl)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bis(2-Chloroethoxy)methane	ug/L	<1	<1	<1	<1	<1J	<1	<1	<1	<1J	<1	<1	<1	<1	<1	<1	<1	<1	<1
bis(2-Chloroethyl)ether	ug/L	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	3	<2	<1	<2	1	<2	<1	<2	<1	<2	1	<2	<1	<2	<1	<2	<1	<2
Butyl benzylphthalate (BBP)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Caprolactam	ug/L	<1J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1	<1	<1	<1	<1J	<1
Carbazole	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chrysene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibenz(a,h)anthracene	ug/L	<2	<1	<2	<1	<2	<1	<2	<1	<2	<1	<2	<1	<2	<1	<2	<1	<2	<1
Dibenzofuran	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl phthalate	ug/L	8	<2	<1	<2	<1	<2	<1	<2	<1	<2	<1	<2	<1	<2	<1	<2	<1	<2
Dimethyl phthalate	ug/L	2	<2	<1	<2	<1	<2	<1	<2	<1	<2	<1	<2	<1	<2	<1	<2	<1	<2
Di-n-butylphthalate (DBP)	ug/L	<4 B	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Di-n-octyl phthalate (DnOP)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Fluoranthene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Fluorene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobenzene	ug/L	NA	0.10	NA	<0.05	NA	0.10	NA	<0.05	NA	<0.05	NA	<0.05	NA	<0.05	NA	<0.05	NA	<0.05
Hexachlorobutadiene	ug/L	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene	ug/L	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachloroethane	ug/L	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Indeno(1,2,3-cd)pyrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isophorone	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nitrobenzene	ug/L	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
N-Nitrosodi-n-propylamine	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
N-Nitrosodiphenylamine	ug/L	<1	<1	<1	<1	R	<1	<1	<1	R	<1	<1	<1	<1	<1	<1	<1	<1	<1
Pentachlorophenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenanthrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenol	ug/L	<1J	<1	<1	<1	<1J	<1	<1	<1	<1J	<1	<1J	<1	<1	<1	<1	<1	<1J	<1
Pyrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		MW-02-03(6) 79 - 89 01/02/13	MW-03-01 28 - 32 10/17/11	MW-03-01 28 - 32 12/20/12	MW-03-02 30 - 40 10/17/11	MW-03-02 30 - 40 12/19/12	MW-03-04 33 - 43 10/17/11	MW-03-04 33 - 43 12/20/12	MW-03-05 35 - 45 12/02/11	MW-03-05 35 - 45 12/19/12	MW-03-06 30 - 40 10/07/11	MW-03-06 30 - 40 01/03/13	MW-03-07 30 - 40 10/18/11	MW-03-07 30 - 40 12/20/12	MW-03-08 35 - 45 12/02/11	MW-03-08 35 - 45 01/02/13	MW-04-01(6) 78 - 88 10/18/11	MW-04-01(6) 78 - 88 01/03/13	MW-04-05(6) 20 - 30 10/13/11
Units																			
Semivolatile Organics-Filtered																			
2-Methyl-4,6-dinitrophenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
2,4,6-Trichlorophenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
2,4-Dichlorophenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
2,4,5-Trichlorophenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
2,4-Dimethylphenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
2,4-Dinitrophenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
2,4-Dinitrotoluene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
2,6-Dinitrotoluene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
2-Chloronaphthalene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
2-Chlorophenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
2-Methylnaphthalene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
2-Methylphenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
2-Nitroaniline	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
2-Nitrophenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
3&4-Methylphenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Naphthalene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
3-Nitroaniline	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
4-Bromophenyl phenyl ether	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
4-Chloro-3-methylphenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
4-Chloroaniline	ug/L	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	<2	NA
4-Chlorophenyl phenyl ether	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
4-Nitroaniline	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
4-Nitrophenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Anthracene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Acenaphthene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Acenaphthylene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Acetophenone	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Atrazine	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Benzaldehyde	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Benzo(a)anthracene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Benzo(a)pyrene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Benzo(b)fluoranthene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Benzo(g,h,i)perylene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Benzo(k)fluoranthene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Biphenyl (1,1-Biphenyl)	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
bis(2-Chloroethoxy)methane	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
bis(2-Chloroethyl)ether	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	<2	NA
Butyl benzylphthalate (BBP)	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Caprolactam	ug/L	7J	NA	NA	NA	NA	NA	NA	NA	NA	NA	7J	NA	NA	NA	NA	NA	14J	NA
Carbazole	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Chrysene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Dibenz(a,h)anthracene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Dibenzofuran	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Diethyl phthalate	ug/L	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	<2	NA
Dimethyl phthalate	ug/L	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	<2	NA
Di-n-butylphthalate (DBP)	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Di-n-octyl phthalate (DnOP)	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Fluoranthene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Fluorene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Hexachlorobutadiene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Hexachlorocyclopentadiene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Hexachloroethane	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Indeno(1,2,3-cd)pyrene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Isophorone	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Nitrobenzene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
N-Nitrosodi-n-propylamine	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
N-Nitrosodiphenylamine	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Pentachlorophenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Phenanthrene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA
Phenol	ug/L	2J	NA	NA	NA	NA	NA	NA	NA	NA	NA	1J	NA	NA	NA	NA	NA	3J	NA
Pyrene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	<1	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		MW-02-03(6) 79 - 89 01/02/13	MW-03-01 28 - 32 10/17/11	MW-03-01 28 - 32 12/20/12	MW-03-02 30 - 40 10/17/11	MW-03-02 30 - 40 12/19/12	MW-03-04 33 - 43 10/17/11	MW-03-04 33 - 43 12/20/12	MW-03-05 35 - 45 12/02/11	MW-03-05 35 - 45 12/19/12	MW-03-06 30 - 40 10/07/11	MW-03-06 30 - 40 01/03/13	MW-03-07 30 - 40 10/18/11	MW-03-07 30 - 40 12/20/12	MW-03-08 35 - 45 12/02/11	MW-03-08 35 - 45 01/02/13	MW-04-01(6) 78 - 88 10/18/11	MW-04-01(6) 78 - 88 01/03/13	MW-04-05(6) 20 - 30 10/13/11
	Units																		
PCBs																			
Aroclor-1016 (PCB-1016)	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor-1221 (PCB-1221)	ug/L	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05
Aroclor-1232 (PCB-1232)	ug/L	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05
Aroclor-1242 (PCB-1242)	ug/L	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05
Aroclor-1248 (PCB-1248)	ug/L	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05
Aroclor-1254 (PCB-1254)	ug/L	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.05
Aroclor-1260 (PCB-1260)	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total PCBs	ug/L	ND	<0.05	ND	<0.05	ND	<0.05	ND	<0.05	ND	<0.05	ND	<0.05	ND	<0.05	ND	<0.05	ND	<0.05
Inorganics																			
Antimony	mg/L	<0.002	0.008 ^a	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002
Arsenic	mg/L	0.109 ^{ab}	0.005	0.016 ^{ab}	0.005	0.018 ^{ab}	0.023 ^{ab}	0.024 ^{ab}	0.011 ^{ab}	0.014 ^{ab}	0.005	0.011 ^{ab}	0.018 ^{ab}	0.049 ^{ab}	0.034 ^{ab}	0.008	0.003	0.007	<0.002
Barium	mg/L	0.935	0.463	0.380	0.473	0.502	0.293	0.331	0.326	0.279	0.279	0.284	0.253	0.258	0.126	0.236	0.230	0.148	1.00
Beryllium	mg/L	NA	<0.001	NA	<0.001	NA	<0.001	NA	<0.001	NA	<0.005	NA	<0.001	NA	<0.001	NA	<0.001	NA	<0.0025
Boron	mg/L	0.10	<0.04	<0.04	0.05	0.05	0.13	0.11	0.10	0.12	<0.20	0.08	0.10	0.10	<0.04	0.05	0.05	0.06	0.10
Cadmium	mg/L	<0.001	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002	<0.001	<0.001	<0.001
Chromium VI (hexavalent)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	0.017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.015	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cobalt	mg/L	<0.010	0.011	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.013	<0.010
Copper	mg/L	0.030 ^b	<0.002	<0.002	0.104 ^b	<0.002	<0.002	<0.002	0.008	0.002	0.004	0.012	<0.002 J	<0.002	0.024 ^b	0.025 ^b	<0.002 J	0.006	<0.002
Lead	mg/L	0.009 ^a	0.014 ^a	<0.002	0.002	<0.002	0.002	<0.002	0.008 ^a	<0.002	<0.002	0.003	<0.002 J	<0.002	0.010 ^a	0.011 ^a	<0.002 J	0.003	<0.005
Manganese	mg/L	0.289 ^a	0.235 ^a	0.255 ^a	0.192 ^a	0.146 ^a	0.130 ^a	0.128 ^a	0.319 ^a	0.169 ^a	0.331 ^a	0.363 ^a	0.050 J	0.071 ^a	0.018	0.059 ^a	0.211 J ^a	0.508 ^a	0.546 ^a
Mercury	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Nickel	mg/L	0.090	0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.014	<0.010	0.028	0.061	<0.010 J	<0.010	<0.010	0.012	<0.010 J	0.026	<0.010
Selenium	mg/L	0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.008 ^b	<0.002	<0.002	0.005	<0.002	<0.002	0.002	<0.002
Silver	mg/L	<0.0002	0.0023 J ^b	<0.0002	0.0010 J ^b	<0.0002	<0.0002 J	<0.0002	0.0003 ^b	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002 J
Thallium	mg/L	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.002
Vanadium	mg/L	0.025 ^a	<0.002	<0.002	0.004	<0.002	0.002	<0.002	0.004	<0.002	0.005 ^a	0.045 ^{ab}	0.002	<0.002	0.018 ^a	0.006 ^a	<0.002	0.006 ^a	0.002
Zinc	mg/L	0.100	0.060	0.014	0.091	<0.010	<0.010	<0.010	0.065	0.014	<0.010	0.016	<0.010	<0.010	0.051	0.044	<0.010	0.022	<0.010
Inorganics-Filtered																			
Antimony (dissolved)	mg/L	<0.002	NA	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	<0.002	<0.002	NA	<0.002	NA	<0.002	<0.002	NA
Arsenic (dissolved)	mg/L	0.020 ^{ab}	NA	NA	0.003	NA	0.015 ^{ab}	NA	0.009	NA	0.004	0.010	0.005	NA	0.015 ^{ab}	NA	0.002	0.006	NA
Barium (dissolved)	mg/L	0.878	NA	NA	0.471	NA	0.288	NA	0.318	NA	0.272	0.283	0.243	NA	0.138	NA	0.222	0.135	NA
Beryllium (dissolved)	mg/L	NA	NA	NA	<0.001	NA	<0.001	NA	<0.001	NA	<0.001	NA	<0.001	NA	<0.001	NA	<0.001	NA	NA
Boron	mg/L	0.10	NA	NA	0.06	NA	0.10	NA	0.10	NA	0.07	0.08	0.10	NA	<0.04	NA	0.05	0.06	NA
Cadmium (dissolved)	mg/L	<0.001	NA	NA	<0.001	NA	<0.001	NA	<0.001	NA	<0.001	<0.001	<0.001	NA	<0.001	NA	<0.001	<0.001	NA
Chromium Total	mg/L	<0.010	NA	NA	<0.010	NA	<0.010	NA	<0.010	NA	<0.010	<0.010	<0.010	NA	<0.010	NA	<0.010	<0.010	NA
Cobalt (dissolved)	mg/L	<0.010	NA	NA	<0.010	NA	<0.010	NA	<0.010	NA	<0.010	<0.010	<0.010	NA	<0.010	NA	<0.010	0.012	NA
Copper (dissolved)	mg/L	0.003	NA	NA	0.009	NA	<0.002	NA	0.007	NA	<0.002	0.002	0.003	NA	0.008	NA	<0.002	<0.002	NA
Lead (dissolved)	mg/L	<0.002	NA	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	<0.002	<0.002	NA	<0.002	NA	<0.002	<0.002	NA
Manganese (dissolved)	mg/L	0.188 ^a	NA	NA	0.135 ^a	NA	0.113 ^a	NA	0.220 ^a	NA	0.269 ^a	0.306 ^a	0.045 J	NA	<0.010	NA	0.203 J ^a	0.421 ^a	NA
Mercury (dissolved)	mg/L	<0.0001	NA	NA	<0.0001	NA	<0.0001	NA	<0.0001	NA	<0.0001	<0.0001	<0.0001	NA	<0.0001	NA	<0.0001	<0.0001	NA
Nickel (dissolved)	mg/L	0.071	NA	NA	<0.010	NA	<0.010	NA	0.017	NA	0.019	0.048	<0.010	NA	<0.010	NA	<0.010	0.021	NA
Selenium (dissolved)	mg/L	0.003	NA	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	0.003	<0.002	NA	0.002	NA	<0.002	<0.002	NA
Silver (dissolved)	mg/L	<0.0002	NA	NA	0.0013 J ^b	NA	<0.0002 J	NA	<0.0002	NA	<0.0002	<0.0002	<0.0002	NA	<0.0002	NA	<0.0002	<0.0002	NA
Thallium (dissolved)	mg/L	NA	NA	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	NA	NA
Vanadium (dissolved)	mg/L	0.021 ^a	NA	NA	<0.002	NA	<0.002	NA	<0.002	NA	0.003	0.046 ^{ab}	<0.002	NA	0.016 ^a	NA	<0.002	0.003	NA
Zinc (dissolved)	mg/L	0.017	NA	NA	0.044	NA	<0.010	NA	0.033	NA	<0.010	<0.010	<0.010	NA	<0.010	NA	<0.010	<0.010	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		MW-04-05(6) 20 - 30 12/18/12	MW-04-06(6) 88 - 98 10/17/11	MW-04-06(6) 88 - 98 01/29/13	MW-12-03 57 - 80 04/18/12	MW-12-03 57 - 80 12/21/12	MW-12-10 8 - 13 12/18/12	MW-12-11 13 - 18 12/18/12	MW-12-12 13 - 18 12/18/12	MW-12-13 18.5 - 23.5 01/28/13	MW-12-14 25 - 30 12/21/12	MW-12-15 18 - 23 12/18/12	MW-12-16 28 - 33 12/18/12	MWBP-10A-UST1-4 28 - 38 12/02/11	MWBP-10A-UST1-4 28 - 38 12/21/12	MWBP-10-UST1-4 15 - 25 12/02/11	MWBP-10-UST1-4 15 - 25 12/21/12
	Units																
Volatile Organics																	
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	<1	<0.05	<1	<0.05	<1	<1	<1	<1	<1	<1	<1	<1	<0.05 J	<1	<0.05	<1
1,2-Dibromoethane (Ethylene dibromide)	ug/L	<1	<0.02	<1	<0.02	<1	<1	<1	<1	<1	<1	<1	<1	<0.02 J	<1	NA	<1
1,2-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Hexanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<10	11	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane (Methyl bromide)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform (Trichloromethane)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane (Methyl chloride)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane (CFC-12)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl acetate	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methylene chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane (CFC-11)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trifluorotrichloroethane (Freon 113)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dioxane	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	<1	3	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	ug/L	<1	2	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	13	11	<1	<1
Toluene	ug/L	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1
m&p-Xylene	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	21	13	<2	<2
Xylene (total)	ug/L	<3	<3	NA	<3	<3	<3	<3	<3	NA	<3	<3	<3	23	13	<3	<3
Methyl tert butyl ether (MTBE)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2,4-Trichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cyclohexane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl cyclohexane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	44	44	<3 X	<1
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropyl benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4	4	<1	<1
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		MW-04-05(6) 20 - 30 12/18/12	MW-04-06(6) 88 - 98 10/17/11	MW-04-06(6) 88 - 98 01/29/13	MW-12-03 57 - 80 04/18/12	MW-12-03 57 - 80 12/21/12	MW-12-10 8 - 13 12/18/12	MW-12-11 13 - 18 12/18/12	MW-12-12 13 - 18 12/18/12	MW-12-13 18.5 - 23.5 01/28/13	MW-12-14 25 - 30 12/21/12	MW-12-15 18 - 23 12/18/12	MW-12-16 28 - 33 12/18/12	MWBP-10A-UST1-4 28 - 38 12/02/11	MWBP-10A-UST1-4 28 - 38 12/21/12	MWBP-10-UST1-4 15 - 25 12/02/11	MWBP-10-UST1-4 15 - 25 12/21/12
Units																	
Semivolatile Organics																	
2-Methyl-4,6-dinitrophenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J
2,4-Dichlorophenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J
2,4,5-Trichlorophenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J
2,4-Dimethylphenol	ug/L	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
2,4-Dinitrophenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
2,4-Dinitrotoluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
2,6-Dinitrotoluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
2-Chloronaphthalene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
2-Chlorophenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
2-Methylnaphthalene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
2-Methylphenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
2-Nitroaniline	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
2-Nitrophenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
3&4-Methylphenol	ug/L	<1	<1	4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
3,3'-Dichlorobenzidine	ug/L	NA	<0.05	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	NA	<0.05	NA
Naphthalene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1
3-Nitroaniline	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
4-Bromophenyl phenyl ether	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
4-Chloro-3-methylphenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
4-Chloroaniline	ug/L	<1J	<2	<1	<2	<1	<1J	<1J	<1J	<1	<1J	<1J	<1J	<1J	<1J	<2 J	<1
4-Chlorophenyl phenyl ether	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1	<1
4-Nitroaniline	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1	<1
4-Nitrophenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1	<1
Anthracene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
Acenaphthene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1	<1
Acenaphthylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1	<1
Acetophenone	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1	<1
Atrazine	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
Benzaldehyde	ug/L	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1J	<1	<1
Benzo(a)anthracene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
Benzo(a)pyrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
Benzo(b)fluoranthene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
Benzo(g,h,i)perylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
Benzo(k)fluoranthene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
Biphenyl (1,1-Biphenyl)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
bis(2-Chloroethoxy)methane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
bis(2-Chloroethyl)ether	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	<1B	<2	7 ^a	<2	<1	<1B	<1	<1	<1	<1	<1B	<1B	<2	<1J	<2	2
Butyl benzylphthalate (BBP)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
Caprolactam	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	R	<1	<1
Carbazole	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
Chrysene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
Dibenz(a,h)anthracene	ug/L	<2	<1	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2J	<1	<2
Dibenzofuran	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
Diethyl phthalate	ug/L	<1	<2	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1J	2	1
Dimethyl phthalate	ug/L	<1	<2	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1J	<2	<1
Di-n-butylphthalate (DBP)	ug/L	<1	<1	1 B	<1	<1	<1B	<1	<1	<1	<1	<1	<1	2	2J	2	3
Di-n-octyl phthalate (DnOP)	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
Fluoranthene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
Fluorene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
Hexachlorobenzene	ug/L	NA	<0.05	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	NA	<0.05	NA
Hexachlorobutadiene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
Hexachlorocyclopentadiene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
Hexachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
Indeno(1,2,3-cd)pyrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
Isophorone	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
Nitrobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
N-Nitrosodi-n-propylamine	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
N-Nitrosodiphenylamine	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
Pentachlorophenol	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
Phenanthrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1
Phenol	ug/L	<1	88	43	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Pyrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1J	<1	<1

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		MW-04-05(6) 20 - 30 12/18/12	MW-04-06(6) 88 - 98 10/17/11	MW-04-06(6) 88 - 98 01/29/13	MW-12-03 57 - 80 04/18/12	MW-12-03 57 - 80 12/21/12	MW-12-10 8 - 13 12/18/12	MW-12-11 13 - 18 12/18/12	MW-12-12 13 - 18 12/18/12	MW-12-13 18.5 - 23.5 01/28/13	MW-12-14 25 - 30 12/21/12	MW-12-15 18 - 23 12/18/12	MW-12-16 28 - 33 12/18/12	MWBP-10A-UST1-4 28 - 38 12/02/11	MWBP-10A-UST1-4 28 - 38 12/21/12	MWBP-10-UST1-4 15 - 25 12/02/11	MWBP-10-UST1-4 15 - 25 12/21/12
	Units																
Semivolatile Organics-Filtered																	
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		MW-04-05(6) 20 - 30 12/18/12	MW-04-06(6) 88 - 98 10/17/11	MW-04-06(6) 88 - 98 01/29/13	MW-12-03 57 - 80 04/18/12	MW-12-03 57 - 80 12/21/12	MW-12-10 8 - 13 12/18/12	MW-12-11 13 - 18 12/18/12	MW-12-12 13 - 18 12/18/12	MW-12-13 18.5 - 23.5 01/28/13	MW-12-14 25 - 30 12/21/12	MW-12-15 18 - 23 12/18/12	MW-12-16 28 - 33 12/18/12	MWBP-10A-UST1-4 28 - 38 12/02/11	MWBP-10A-UST1-4 28 - 38 12/21/12	MWBP-10-UST1-4 15 - 25 12/02/11	MWBP-10-UST1-4 15 - 25 12/21/12
	Units																
PCBs																	
Aroclor-1016 (PCB-1016)	ug/L	<0.05	<0.05	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor-1221 (PCB-1221)	ug/L	<0.1	<0.05	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.05	<0.1
Aroclor-1232 (PCB-1232)	ug/L	<0.1	<0.05	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.05	<0.1
Aroclor-1242 (PCB-1242)	ug/L	<0.1	<0.05	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.05	<0.1
Aroclor-1248 (PCB-1248)	ug/L	<0.1	<0.05	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.05	<0.1
Aroclor-1254 (PCB-1254)	ug/L	<0.1	<0.05	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.05	<0.1
Aroclor-1260 (PCB-1260)	ug/L	<0.05	<0.05	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total PCBs	ug/L	ND	<0.05	NA	NA	ND	ND	ND	ND	<0.05	ND	ND	ND	<0.05	ND	<0.05	ND
Inorganics																	
Antimony	mg/L	<0.002	0.007 ^a	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Arsenic	mg/L	<0.002	0.002	0.003	0.005	<0.002	<0.002	0.007	0.006	0.002	<0.002	<0.002	0.022 ^{ab}	0.038 ^{ab}	0.021 ^{ab}	0.049 ^{ab}	0.057 ^{ab}
Barium	mg/L	1.07	1.25 ^b	0.868	0.357	0.278	0.204	0.125	0.246	0.184	0.124	0.298	0.247	0.010	0.021	0.074	0.093
Beryllium	mg/L	NA	<0.001	NA	<0.001	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	NA	<0.001	NA
Boron	mg/L	0.08	0.05	0.09	<0.04	<0.04	0.08	<0.04	0.04	0.08	0.08	0.05	0.07	0.10	0.10	0.10	0.10
Cadmium	mg/L	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium VI (hexavalent)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	<0.010	<0.010	0.033	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.011
Cobalt	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Copper	mg/L	<0.002	0.217 ^b	0.040 ^b	0.005	<0.002	0.002	0.005	0.013	<0.002	0.023 ^b	<0.002	0.007	0.002	0.013	0.006	0.006
Lead	mg/L	<0.002	0.032 ^a	0.005 ^a	<0.002	<0.002	<0.002	<0.002	0.002	0.003	<0.002	<0.002	0.005 ^a	0.004	0.011 ^a	0.002	<0.002
Manganese	mg/L	0.479 ^a	0.079 ^a	0.040	0.072 ^a	0.190 ^a	1.33 ^a	0.973 ^a	1.25 ^a	0.204 ^a	0.390 ^a	0.341 ^a	0.460 ^a	0.055 ^a	0.035	0.073 ^a	0.080 ^a
Mercury	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Nickel	mg/L	<0.010	0.013	0.041	<0.010	<0.010	<0.010	0.020	0.020	<0.010	0.023	<0.010	0.011	0.015	<0.010	<0.010	<0.010
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.004	<0.002	<0.002	0.024 ^b	<0.002	<0.002	<0.002
Silver	mg/L	<0.0002	0.0006 ^J ^b	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Thallium	mg/L	NA	<0.002	NA	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	<0.002	NA	<0.002	NA
Vanadium	mg/L	<0.002	0.004	0.003	<0.002	<0.002	<0.002	<0.002	0.005 ^a	0.002	0.002	0.004	0.003	0.030 ^{ab}	0.032 ^{ab}	0.042 ^{ab}	0.068 ^{ab}
Zinc	mg/L	<0.010	0.128	0.065	<0.010	<0.010	<0.010	<0.010	0.011	<0.010	0.020	<0.010	0.016	0.023	0.043	<0.010	<0.010
Inorganics-Filtered																	
Antimony (dissolved)	mg/L	NA	0.006	NA	NA	NA	NA	NA	<0.002	<0.002	NA	NA	NA	NA	NA	<0.002	NA
Arsenic (dissolved)	mg/L	NA	<0.002	NA	NA	NA	NA	NA	<0.002	<0.002	NA	NA	NA	NA	NA	0.042 ^{ab}	NA
Barium (dissolved)	mg/L	NA	1.22 ^b	NA	NA	NA	NA	NA	0.235	0.173	NA	NA	NA	NA	NA	0.068	NA
Beryllium (dissolved)	mg/L	NA	<0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	NA
Boron	mg/L	NA	<0.04	NA	NA	NA	NA	NA	0.04	0.06	NA	NA	NA	NA	NA	0.10	NA
Cadmium (dissolved)	mg/L	NA	<0.001	NA	NA	NA	NA	NA	<0.001	<0.001	NA	NA	NA	NA	NA	<0.001	NA
Chromium Total	mg/L	NA	<0.010	NA	NA	NA	NA	NA	<0.010	<0.010	NA	NA	NA	NA	NA	<0.010	NA
Cobalt (dissolved)	mg/L	NA	<0.010	NA	NA	NA	NA	NA	<0.010	<0.010	NA	NA	NA	NA	NA	<0.010	NA
Copper (dissolved)	mg/L	NA	0.040 ^b	NA	NA	NA	NA	NA	0.003	<0.002	NA	NA	NA	NA	NA	0.005	NA
Lead (dissolved)	mg/L	NA	0.024 ^a	NA	NA	NA	NA	NA	<0.002	0.002	NA	NA	NA	NA	NA	<0.002	NA
Manganese (dissolved)	mg/L	NA	<0.010	NA	NA	NA	NA	NA	1.05 ^a	0.176 ^a	NA	NA	NA	NA	NA	0.069 ^a	NA
Mercury (dissolved)	mg/L	NA	<0.0001	NA	NA	NA	NA	NA	<0.0001	<0.0001	NA	NA	NA	NA	NA	<0.0001	NA
Nickel (dissolved)	mg/L	NA	<0.010	NA	NA	NA	NA	NA	0.015	<0.010	NA	NA	NA	NA	NA	<0.010	NA
Selenium (dissolved)	mg/L	NA	<0.002	NA	NA	NA	NA	NA	<0.002	<0.002	NA	NA	NA	NA	NA	<0.002	NA
Silver (dissolved)	mg/L	NA	0.0005 ^J ^b	NA	NA	NA	NA	NA	<0.0002	<0.0002	NA	NA	NA	NA	NA	<0.0002	NA
Thallium (dissolved)	mg/L	NA	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.002	NA
Vanadium (dissolved)	mg/L	NA	<0.002	NA	NA	NA	NA	NA	<0.002	<0.002	NA	NA	NA	NA	NA	0.036 ^{ab}	NA
Zinc (dissolved)	mg/L	NA	0.059	NA	NA	NA	NA	NA	<0.010	<0.010	NA	NA	NA	NA	NA	<0.010	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		MWBP-10-UST5-6 28 - 38 10/07/11	MWBP-10-UST5-6 28 - 38 12/21/12	MWBP-11-UST1-4 9 - 19 11/29/11	MWBP-11-UST1-4 9 - 19 12/21/12	MWBP-12A-UST1-4 28 - 38 12/02/11	MWBP-12A-UST1-4 28 - 38 12/21/12	MWBP-12-UST1-4 15 - 25 10/18/11	MWBP-12-UST1-4 15 - 25 12/20/12	MWBP-12-UST5-6 28 - 38 10/10/11	MWBP-12-UST5-6 28 - 38 12/21/12	MWBP-13-UST1-4 15 - 25 10/18/11	MWBP-13-UST1-4 15 - 25 12/21/12
	Units												
Volatile Organics													
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	<0.05	<1 [<1]	<0.05	<1	<0.05 J	<1 [<1]	<0.05	<1	<0.05	<1	<0.05	<1
1,2-Dibromoethane (Ethylene dibromide)	ug/L	<0.02	<1 [<1]	<0.02	<1	<0.02	<1 [<1]	<0.02	<1	<0.02	<1	<0.02	<1
1,2-Dichlorobenzene	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
2-Hexanone	ug/L	<10	<10 [<10]	<10	<10	<10	<10 [<10]	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<10	<10 [<10]	<10	<10	<48 J	<10 [<10]	<10	<10	<10	<10	<10	<10
Bromodichloromethane	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
Bromomethane (Methyl bromide)	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
Carbon disulfide	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
Chloroform (Trichloromethane)	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
Chloromethane (Methyl chloride)	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane (CFC-12)	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
Methyl acetate	ug/L	<10	<10 [<10]	<10	<10	<10	<10 [<10]	<10	<10	<10	<10	<10	<10
Methylene chloride	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
Styrene	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane (CFC-11)	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
Trifluorotrichloroethane (Freon 113)	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
1,4-Dioxane	ug/L	<5	<5 [<5]	<5	<5	<5	<5 [<5]	<5	<5	9	<7 B	<5	<5
1,1,1-Trichloroethane	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
Trichloroethene	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
Tetrachloroethene	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
Vinyl chloride	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
Benzene	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
Toluene	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
o-Xylene	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
m&p-Xylene	ug/L	<2	<2 [<2]	<2	<2	<2	<2 [<2]	<2	<2	<2	<2	<2	<2
Xylene (total)	ug/L	<3	<3 [<3]	<3	<3	<3	<3 [<3]	<3	<3	<3	<3	<3	<3
Methyl tert butyl ether (MTBE)	ug/L	1	2 [2]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	<10	<10 [<10]	<10	<10	<10	<10 [<10]	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	<10	<10 [<10]	<10	<10	<10	<10 [<10]	<10	<10	<10	<10	<10	<10
1,2,4-Trichlorobenzene	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
Cyclohexane	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
Methyl cyclohexane	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
Dibromochloromethane	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
Isopropyl benzene	ug/L	<1	<1 [<1]	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1	<1
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		MWBP-10-UST5-6 28 - 38 10/07/11	MWBP-10-UST5-6 28 - 38 12/21/12	MWBP-11-UST1-4 9 - 19 11/29/11	MWBP-11-UST1-4 9 - 19 12/21/12	MWBP-12A-UST1-4 28 - 38 12/02/11	MWBP-12A-UST1-4 28 - 38 12/21/12	MWBP-12-UST1-4 15 - 25 10/18/11	MWBP-12-UST1-4 15 - 25 12/20/12	MWBP-12-UST5-6 28 - 38 10/10/11	MWBP-12-UST5-6 28 - 38 12/21/12	MWBP-13-UST1-4 15 - 25 10/18/11	MWBP-13-UST1-4 15 - 25 12/21/12
Units													
Semivolatile Organics													
2-Methyl-4,6-dinitrophenol	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth)	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
2,4-Dichlorophenol	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
2,4,5-Trichlorophenol	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
2,4-Dimethylphenol	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
2,4-Dinitrophenol	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
2,4-Dinitrotoluene	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
2,6-Dinitrotoluene	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
2-Chloronaphthalene	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
2-Chlorophenol	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
2-Methylnaphthalene	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
2-Methylphenol	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
2-Nitroaniline	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
2-Nitrophenol	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
3&4-Methylphenol	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
3,3'-Dichlorobenzidine	ug/L	<0.05	NA	<0.05	NA	<0.05	NA	<0.05	NA	<0.05	NA	<0.05	NA
Naphthalene	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
3-Nitroaniline	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
4-Bromophenyl phenyl ether	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
4-Chloroaniline	ug/L	<2	<1 [<u><1</u>]	<2	<1	<2 J	<1 [<u><1</u>]	<2	<1	<2	<1	<2	<1
4-Chlorophenyl phenyl ether	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
4-Nitroaniline	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
4-Nitrophenol	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Anthracene	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Acenaphthene	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Acenaphthylene	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Acetophenone	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Atrazine	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Benzaldehyde	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Benzo(a)pyrene	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Benzo(b)fluoranthene	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Benzo(k)fluoranthene	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Biphenyl (1,1-Biphenyl)	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
bis(2-Chloroethoxy)methane	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
bis(2-Chloroethyl)ether	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	<2	<1 [<u><1</u>]	<2	<1	<2	<1 [<u><1</u>]	<2	1	<2	<1	<2	<1
Butyl benzylphthalate (BBP)	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Caprolactam	ug/L	<1	<1 [<u><1</u>]	<1	1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Carbazole	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Chrysene	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Dibenz(a,h)anthracene	ug/L	<1	<2 [<u><2</u>]	<1	<2	<1	<2 [<u><2</u>]	<1	<2	<1	<2	<1	<2
Dibenzofuran	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Diethyl phthalate	ug/L	<2	<1 [<u><1</u>]	<2	<1	<2	<1 [<u><1</u>]	<2	<1	<2	<1	<2	<1
Dimethyl phthalate	ug/L	<2	<1 [<u><1</u>]	<2	<1	<2	<1 [<u><1</u>]	<2	<1	<2	<1	<2	<1
Di-n-butylphthalate (DBP)	ug/L	<1	<1 [<u><1</u>]	1	<1	2	<1 [<u><1</u>]	<1	1	<1	<1	<1	<1
Di-n-octyl phthalate (DnOP)	ug/L	<1	<1 [<u><1</u>]	<1	<1	2	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Fluoranthene	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Fluorene	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Hexachlorobenzene	ug/L	<0.05	NA	<0.05	NA	<0.05	NA	<0.05	NA	<0.05	NA	<0.05	NA
Hexachlorobutadiene	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Hexachloroethane	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Indeno(1,2,3-cd)pyrene	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Isophorone	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Nitrobenzene	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
N-Nitrosodi-n-propylamine	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
N-Nitrosodiphenylamine	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Pentachlorophenol	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Phenanthrene	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Phenol	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1
Pyrene	ug/L	<1	<1 [<u><1</u>]	<1	<1	<1	<1 [<u><1</u>]	<1	<1	<1	<1	<1	<1

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		MWBP-10-UST5-6 28 - 38 10/07/11	MWBP-10-UST5-6 28 - 38 12/21/12	MWBP-11-UST1-4 9 - 19 11/29/11	MWBP-11-UST1-4 9 - 19 12/21/12	MWBP-12A-UST1-4 28 - 38 12/02/11	MWBP-12A-UST1-4 28 - 38 12/21/12	MWBP-12-UST1-4 15 - 25 10/18/11	MWBP-12-UST1-4 15 - 25 12/20/12	MWBP-12-UST5-6 28 - 38 10/10/11	MWBP-12-UST5-6 28 - 38 12/21/12	MWBP-13-UST1-4 15 - 25 10/18/11	MWBP-13-UST1-4 15 - 25 12/21/12
Units													
Semivolatile Organics-Filtered													
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
2,4,6-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
2,4-Dichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
2,4,5-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
2,4-Dimethylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
2,4-Dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
2,4-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
2,6-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
2-Chloronaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
2-Chlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
2-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
2-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
2-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
2-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
3&4-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
3-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
4-Bromophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
4-Chloro-3-methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
4-Chloroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
4-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
4-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Acenaphthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Acenaphthylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Acetophenone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Atrazine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Benzaldehyde	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Benzo(a)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Benzo(a)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Benzo(b)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Benzo(g,h,i)perylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Benzo(k)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
bis(2-Chloroethyl)ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA
Butyl benzylphthalate (BBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Caprolactam	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	NA
Carbazole	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Chrysene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Dibenz(a,h)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Dibenzofuran	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Diethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA
Dimethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA
Di-n-butylphthalate (DBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Fluorene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Hexachlorobutadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Hexachlorocyclopentadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Hexachloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Isophorone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Nitrobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
N-Nitrosodi-n-propylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
N-Nitrosodiphenylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Pentachlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Phenanthrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Phenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	NA	NA
Pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		MWBP-10-UST5-6 28 - 38 10/07/11	MWBP-10-UST5-6 28 - 38 12/21/12	MWBP-11-UST1-4 9 - 19 11/29/11	MWBP-11-UST1-4 9 - 19 12/21/12	MWBP-12A-UST1-4 28 - 38 12/02/11	MWBP-12A-UST1-4 28 - 38 12/21/12	MWBP-12-UST1-4 15 - 25 10/18/11	MWBP-12-UST1-4 15 - 25 12/20/12	MWBP-12-UST5-6 28 - 38 10/10/11	MWBP-12-UST5-6 28 - 38 12/21/12	MWBP-13-UST1-4 15 - 25 10/18/11	MWBP-13-UST1-4 15 - 25 12/21/12
	Units												
PCBs													
Aroclor-1016 (PCB-1016)	ug/L	<0.05	<0.05 [<0.05]	<0.05	<0.05	<0.05	<0.05 [<0.05]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor-1221 (PCB-1221)	ug/L	<0.05	<0.1 [<0.1]	<0.05	<0.1	<0.05	<0.1 [<0.1]	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1
Aroclor-1232 (PCB-1232)	ug/L	<0.05	<0.1 [<0.1]	<0.05	<0.1	<0.05	<0.1 [<0.1]	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1
Aroclor-1242 (PCB-1242)	ug/L	<0.05	<0.1 [<0.1]	<0.05	<0.1	<0.05	<0.1 [<0.1]	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1
Aroclor-1248 (PCB-1248)	ug/L	<0.05	<0.1 [<0.1]	<0.05	<0.1	<0.05	<0.1 [<0.1]	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1
Aroclor-1254 (PCB-1254)	ug/L	<0.05	<0.1 [<0.1]	<0.05	<0.1	<0.05	<0.1 [<0.1]	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1
Aroclor-1260 (PCB-1260)	ug/L	<0.05	<0.05 [<0.05]	<0.05	<0.05	<0.05	<0.05 [<0.05]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total PCBs	ug/L	<0.05	ND [ND]	<0.05	ND	<0.05	ND [ND]	<0.05	ND	<0.05	ND	<0.05	ND
Inorganics													
Antimony	mg/L	<0.002	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Arsenic	mg/L	<0.002	<0.002 [<0.002]	0.032^{ab}	0.029^{ab}	0.012^{ab}	0.021 [0.02]^{ab}	0.016^{ab}	0.006	0.007	0.007	<0.002	0.002
Barium	mg/L	0.229	0.185 [0.183]	0.067	0.025	0.120	0.201 [0.179]	0.620	0.106	0.077	0.090	0.159	0.160
Beryllium	mg/L	<0.001	NA	<0.001	NA	<0.001	NA	<0.001	NA	<0.001	NA	<0.001	NA
Boron	mg/L	<0.04	0.06 [0.06]	0.13	0.11	0.11	0.05 [0.05]	0.04 J	0.12	<0.04	<0.04	<0.04 J	<0.04
Cadmium	mg/L	<0.001	<0.001 [<0.001]	<0.001	<0.001	<0.001	<0.001 [<0.001]	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium VI (hexavalent)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	<0.010	<0.010 [<0.01]	<0.010	<0.010	<0.010	<0.010 [<0.01]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cobalt	mg/L	<0.010	<0.010 [<0.01]	<0.010	<0.010	<0.010	<0.010 [<0.01]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Copper	mg/L	0.004	<0.002 [<0.002]	0.032^b	0.023^b	<0.002	<0.002 [<0.002]	0.004	<0.002	<0.002	0.004	<0.002	<0.002
Lead	mg/L	<0.002	<0.002 [<0.002]	0.018^a	0.007^a	<0.002	<0.002 [<0.002]	0.003	<0.002	<0.002	0.004	0.002	<0.002
Manganese	mg/L	0.253^a	0.622 [0.624]^a	0.263^a	0.062^a	0.119^a	0.456 [0.455]^a	0.419 J^a	0.088^a	0.266^a	0.322^a	0.378 J^a	0.480^a
Mercury	mg/L	<0.0001	<0.0001 [<0.0001]	<0.0001	<0.0001	<0.0001	<0.0001 [<0.0001]	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Nickel	mg/L	0.016	<0.010 [<0.01]	0.013	<0.010	<0.010	0.025 [0.023]	<0.010	<0.010	<0.010	<0.010	<0.010	0.045
Selenium	mg/L	<0.002	<0.002 [<0.002]	<0.002	<0.002	<0.002	0.004 [0.003]	<0.002	<0.002	<0.002	<0.002	<0.002	0.006^b
Silver	mg/L	<0.0002	<0.0002 [<0.0002]	<0.0002	<0.0002	<0.0002	<0.0002 [<0.0002]	0.0034^b	<0.0002	<0.0002	<0.0002	0.0028^b	<0.0002
Thallium	mg/L	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	NA
Vanadium	mg/L	<0.002	<0.002 [<0.002]	0.013^a	0.005^a	0.010^a	0.009 [0.01]^a	0.003	0.006^a	<0.002	0.004	<0.002	0.009^a
Zinc	mg/L	0.01	0.012 [<0.01]	0.021	0.011	<0.010	0.017 [0.023]	0.017	<0.010	<0.010	0.017	<0.010	<0.010
Inorganics-Filtered													
Antimony (dissolved)	mg/L	NA	NA	<0.002	<0.002	NA	NA	<0.002	NA	NA	<0.002	<0.002	NA
Arsenic (dissolved)	mg/L	NA	NA	0.034^{ab}	0.027^{ab}	NA	NA	0.016^{ab}	NA	NA	0.006	<0.002	NA
Barium (dissolved)	mg/L	NA	NA	0.043	0.016	NA	NA	0.576	NA	NA	0.071	0.155	NA
Beryllium (dissolved)	mg/L	NA	NA	<0.001	NA	NA	NA	<0.001	NA	NA	NA	<0.001	NA
Boron	mg/L	NA	NA	0.14	0.11	NA	NA	0.05	NA	NA	<0.04	<0.04	NA
Cadmium (dissolved)	mg/L	NA	NA	<0.001	<0.001	NA	NA	<0.001	NA	NA	<0.001	<0.001	NA
Chromium Total	mg/L	NA	NA	<0.010	<0.010	NA	NA	<0.010	NA	NA	<0.010	<0.010	NA
Cobalt (dissolved)	mg/L	NA	NA	<0.010	<0.010	NA	NA	<0.010	NA	NA	<0.010	<0.010	NA
Copper (dissolved)	mg/L	NA	NA	0.017	0.004	NA	NA	<0.002	NA	NA	<0.002	<0.002	NA
Lead (dissolved)	mg/L	NA	NA	0.010^a	<0.002	NA	NA	<0.002	NA	NA	<0.002	<0.002	NA
Manganese (dissolved)	mg/L	NA	NA	0.143^a	<0.010	NA	NA	0.360^a	NA	NA	0.246^a	0.369^a	NA
Mercury (dissolved)	mg/L	NA	NA	<0.0001	<0.0001	NA	NA	<0.0001	NA	NA	<0.0001	<0.0001	NA
Nickel (dissolved)	mg/L	NA	NA	0.012	<0.010	NA	NA	<0.010	NA	NA	<0.010	<0.010	NA
Selenium (dissolved)	mg/L	NA	NA	<0.002	<0.002	NA	NA	<0.002	NA	NA	<0.002	<0.002	NA
Silver (dissolved)	mg/L	NA	NA	<0.0002	<0.0002	NA	NA	0.0030^b	NA	NA	<0.0002	0.0028^b	NA
Thallium (dissolved)	mg/L	NA	NA	<0.002	NA	NA	NA	<0.002	NA	NA	NA	<0.002	NA
Vanadium (dissolved)	mg/L	NA	NA	0.010^a	0.003	NA	NA	0.002	NA	NA	<0.002	<0.002	NA
Zinc (dissolved)	mg/L	NA	NA	0.013	<0.010	NA	NA	0.014	NA	NA	<0.010	<0.010	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		P6-MW-01 23 - 28 08/10/11	P6-MW-01 23 - 28 10/18/11	P6-MW-01 23 - 28 12/21/12	P6-SB-07 15 - 20 08/10/11	P6-SB-07 15 - 20 09/21/12	P6-SB-07 15 - 20 12/19/12	P6-SB-10 08/01/11	P6-SB-12 0 08/04/11	P6-SB-18 3 - 8 08/08/11	P6-SB-18 3 - 8 12/19/12	P6-SB-21 3 - 8 12/19/12	P6-SB-23 0 08/04/11	P6-SB-32 7 - 12 08/11/11	P6-SB-32 7 - 12 12/19/12	P6-SB-34 0 08/04/11	P6-SB-35 3 - 8 08/05/11	P6-SB-35 3 - 8 12/19/12	P6-SB-37 5 - 10 08/08/11	P6-SB-37 5 - 10 12/19/12	P6-SB-40 08/05/11
Units																					
Volatile Organics																					
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	<0.05	<0.05	<1	NA	<1	<1	NA	<0.05	<0.05	<1	<1	<0.05	<0.05	<50	<0.05	<0.05 J	<1	<0.05	<1	NA
1,2-Dibromoethane (Ethylene dibromide)	ug/L	<0.02	<0.02	<1	NA	<1	<1	NA	<0.02	<0.02	<1	<1	<0.02	<0.02	<50	<0.02	<0.02	<1	<0.02	<1	NA
1,2-Dichlorobenzene	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
1,4-Dichlorobenzene	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
2-Hexanone	ug/L	<10	<10	<10	NA	<10	<10 J	NA	<10	<10	<10 J	<10 J	<10	<1,000	<500	<10	<10	<10 J	<10	<10 J	NA
Acetone	ug/L	<10	<10 J	<10	NA	<10	<10 J	NA	<10	13	<10 J	<10 J	86	<1,000	<500	67	<10	<10 J	<10	<10 J	NA
Bromodichloromethane	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
Bromoform	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
Bromomethane (Methyl bromide)	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
Carbon disulfide	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<2	<100	<50	1	<1	<1	<1	<1	NA
Carbon tetrachloride	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
Chlorobenzene	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
Chloroform (Trichloromethane)	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
Chloromethane (Methyl chloride)	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
cis-1,3-Dichloropropene	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
Dichlorodifluoromethane (CFC-12)	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
Methyl acetate	ug/L	<10	<10	<10	NA	<10	<10	NA	<10	<10	<10	<10	<10	<1,000	<500	<10	<10	<10	<10	<10	NA
Methylene chloride	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
Styrene	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
trans-1,3-Dichloropropene	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
Trichlorofluoromethane (CFC-11)	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
Trifluorotrichloroethane (Freon 113)	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
1,4-Dioxane	ug/L	<5	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA
1,1,1-Trichloroethane	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
1,1,2,2-Tetrachloroethane	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
1,1,2-Trichloroethane	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
1,1-Dichloroethane	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
1,1-Dichloroethene	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
1,2-Dichloroethane	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
cis-1,2-Dichloroethene	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
trans-1,2-Dichloroethene	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
Trichloroethene	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	1	<1	NA
Tetrachloroethene	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
Vinyl chloride	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
Chloroethane	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
Benzene	ug/L	<1	<1	<1	NA	<1	<1	NA	11 ^a	<1	<1	<1	22 ^a	<100	<50	134 ^{ah}	<1	<1	<1	<1	NA
Ethylbenzene	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	19 ^b	600 ^{ab}	270 ^{ab}	250 D ^{ab}	<1	<1	<1	<1	NA
Toluene	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<57 B	300 ^b	250	820 D ^{ab}	<1	<1	<1	<1	NA
o-Xylene	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	37	800 ^{ab}	1,050 ^{ab}	370 D ^{ab}	<1	<1	<1	<1	NA
m&p-Xylene	ug/L	<2	<2	<2	NA	<2	<2	NA	<2	<2	<2	<2	<104 B	3,200 ^{ab}	1,600 ^{ab}	1,130 D ^{ab}	<2	<2	<2	<2	NA
Xylene (total)	ug/L	<3	<3	<3	NA	<3	<3	NA	<3	<3	<3	<3	37	4,000 ^{ab}	2,650 ^{ab}	1,500 ^{ab}	<3	<3	<3	<3	NA
Methyl tert butyl ether (MTBE)	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	<10	<10	<10	NA	<10	<10 J	NA	<10	<10	<10 J	<10 J	<14	<1,000	<500	12	<10	<10 J	<10	<10 J	NA
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	<10	<10	<10	NA	<10	<10	NA	<10	<10	<10	<10	<10	<1,000	<500	<10	<10	<10	<10	<10	NA
1,2,4-Trichlorobenzene	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
1,2,4-Trimethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
1,3-Dichlorobenzene	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
Cyclohexane	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<2	<100	<50	30	<1	<1	<1	<1	NA
Methyl cyclohexane	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<2	<100	<50	51	<1	<1	<1	<1	NA
Dibromochloromethane	ug/L	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	<1	<100	<50	<1	<1	<1	<1	<1	NA
Isopropyl benzene	ug/L	<1	<1	<1	NA	<1	<1	NA	2	<1	<1	<1	4	100 ^{bh}	60 ^{bh}	33 ^b	<1	<1	<1	<1	NA
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		P6-MW-01 23 - 28 08/10/11	P6-MW-01 23 - 28 10/18/11	P6-MW-01 23 - 28 12/21/12	P6-SB-07 15 - 20 08/10/11	P6-SB-07 15 - 20 09/21/12	P6-SB-07 15 - 20 12/19/12	P6-SB-10 08/01/11	P6-SB-12 0 08/04/11	P6-SB-18 3 - 8 08/08/11	P6-SB-18 3 - 8 12/19/12	P6-SB-21 3 - 8 12/19/12	P6-SB-23 0 08/04/11	P6-SB-32 7 - 12 08/11/11	P6-SB-32 7 - 12 12/19/12	P6-SB-34 0 08/04/11	P6-SB-35 3 - 8 08/05/11	P6-SB-35 3 - 8 12/19/12	P6-SB-37 5 - 10 08/08/11	P6-SB-37 5 - 10 12/19/12	P6-SB-40 08/05/11
Units																					
Semivolatile Organics																					
2-Methyl-4,6-dinitrophenol	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
2,4,6-Trichlorophenol	ug/L	<1	<1	<1	NA	<1 J	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
2,4-Dichlorophenol	ug/L	<1	<1	<1	NA	<1 J	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
2,4,5-Trichlorophenol	ug/L	<1	<1	<1	NA	<1 J	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
2,4-Dimethylphenol	ug/L	<1	<1	<1	NA	<1	<1	NA	<4	NA	<1	<1	18	NA	12	17	NA	<1	NA	<1	NA
2,4-Dinitrophenol	ug/L	<1	<1	<1	NA	<1 J	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
2,4-Dinitrotoluene	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
2,6-Dinitrotoluene	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
2-Chloronaphthalene	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
2-Chlorophenol	ug/L	<1	<1	<1	NA	<1 J	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
2-Methylnaphthalene	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	2	<5	NA	<1	NA	<1	NA
2-Methylphenol	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	13	NA	<1	24	NA	<1	NA	<1	NA
2-Nitroaniline	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
2-Nitrophenol	ug/L	<1	<1	<1	NA	<1 J	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
3&4-Methylphenol	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	33 ^b	NA	93 ^b	88 ^b	NA	<1	NA	<1	NA
3,3'-Dichlorobenzidine	ug/L	<0.1	<0.05	NA	NA	<0.05	NA	NA	<0.1	NA	NA	NA	<0.1	NA	NA	<0.1	NA	NA	NA	NA	NA
Naphthalene	ug/L	<1	<1	<1	NA	<1	<1	NA	<4	NA	<1	<1	21 ^b	NA	162 ^b	21 ^b	NA	<1	NA	<1	NA
3-Nitroaniline	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
4-Bromophenyl phenyl ether	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
4-Chloro-3-methylphenol	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
4-Chloroaniline	ug/L	<2 J	<2	<1	NA	<2 J	<1	NA	<4 J	NA	<1	<1	<8 J	NA	<1	<8 J	NA	<1	NA	<1	NA
4-Chlorophenyl phenyl ether	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
4-Nitroaniline	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
4-Nitrophenol	ug/L	<1	<1	<1	NA	<1 J	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Anthracene	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Acenaphthene	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Acenaphthylene	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Acetophenone	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Atrazine	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Benzaldehyde	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Benzo(a)anthracene	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Benzo(a)pyrene	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Benzo(b)fluoranthene	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Benzo(g,h,i)perylene	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Benzo(k)fluoranthene	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Biphenyl (1,1-Biphenyl)	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
bis(2-Chloroethoxy)methane	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
bis(2-Chloroethyl)ether	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	<2	<2	<1	NA	<2	1	NA	<4	NA	1	2	<8	NA	1	<8	NA	2	NA	2	NA
Butyl benzylphthalate (BBP)	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Caprolactam	ug/L	<1	<1	<1	NA	5	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	9	NA
Carbazole	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Chrysene	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Dibenz(a,h)anthracene	ug/L	<1	<1	<2	NA	<1	<2	NA	<2	NA	<2	<2	<4	NA	<2	<4	NA	<2	NA	<2	NA
Dibenzofuran	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Diethyl phthalate	ug/L	<2	<2	<1	NA	<2	<1	NA	6	NA	1	<1	<8	NA	3	<8	NA	<1	NA	<1	NA
Dimethyl phthalate	ug/L	<2	<2	<1	NA	<2	<1	NA	<4	NA	<1	<1	<8	NA	<1	<8	NA	<1	NA	<1	NA
Di-n-butylphthalate (DBP)	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	1	1	<4	NA	<1	<4	NA	1	NA	2	NA
Di-n-octyl phthalate (DnOP)	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Fluoranthene	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Fluorene	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Hexachlorobenzene	ug/L	<0.1	<0.05	NA	NA	<0.05	NA	NA	<0.1	NA	NA	NA	<0.1	NA	NA	<0.1	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Hexachlorocyclopentadiene	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Hexachloroethane	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Indeno(1,2,3-cd)pyrene	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Isophorone	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Nitrobenzene	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
N-Nitrosodi-n-propylamine	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
N-Nitrosodiphenylamine	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Pentachlorophenol	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Phenanthrene	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA
Phenol	ug/L	<1	<1	<1	NA	1	<1	NA	<2	NA	<1	<1	96	NA	<1	66	NA	<1	NA	<1	NA
Pyrene	ug/L	<1	<1	<1	NA	<1	<1	NA	<2	NA	<1	<1	<4	NA	<1	<4	NA	<1	NA	<1	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		P6-MW-01 23 - 28 08/10/11	P6-MW-01 23 - 28 10/18/11	P6-MW-01 23 - 28 12/21/12	P6-SB-07 15 - 20 08/10/11	P6-SB-07 15 - 20 09/21/12	P6-SB-07 15 - 20 12/19/12	P6-SB-10 08/01/11	P6-SB-12 0 08/04/11	P6-SB-18 3 - 8 08/08/11	P6-SB-18 3 - 8 12/19/12	P6-SB-21 3 - 8 12/19/12	P6-SB-23 0 08/04/11	P6-SB-32 7 - 12 08/11/11	P6-SB-32 7 - 12 12/19/12	P6-SB-34 0 08/04/11	P6-SB-35 3 - 8 08/05/11	P6-SB-35 3 - 8 12/19/12	P6-SB-37 5 - 10 08/08/11	P6-SB-37 5 - 10 12/19/12	P6-SB-40 08/05/11
Units																					
Semivolatile Organics-Filtered																					
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	NA	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/L	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/L	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		P6-MW-01 23 - 28 08/10/11	P6-MW-01 23 - 28 10/18/11	P6-MW-01 23 - 28 12/21/12	P6-SB-07 15 - 20 08/10/11	P6-SB-07 15 - 20 09/21/12	P6-SB-07 15 - 20 12/19/12	P6-SB-10 08/01/11	P6-SB-12 0 08/04/11	P6-SB-18 3 - 8 08/08/11	P6-SB-18 3 - 8 12/19/12	P6-SB-21 3 - 8 12/19/12	P6-SB-23 0 08/04/11	P6-SB-32 7 - 12 08/11/11	P6-SB-32 7 - 12 12/19/12	P6-SB-34 0 08/04/11	P6-SB-35 3 - 8 08/05/11	P6-SB-35 3 - 8 12/19/12	P6-SB-37 5 - 10 08/08/11	P6-SB-37 5 - 10 12/19/12	P6-SB-40 08/05/11
Units																					
PCBs																					
Aroclor-1016 (PCB-1016)	ug/L	NA	<0.05	<0.05	NA	NA	<0.05	NA	NA	NA	<0.05	<0.05	NA	NA	<0.05	NA	NA	<0.05	NA	<0.05	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	<0.05	<0.1	NA	NA	<0.1	NA	NA	NA	<0.1	<0.1	NA	NA	<0.1	NA	NA	<0.1	NA	<0.1	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	<0.05	<0.1	NA	NA	<0.1	NA	NA	NA	<0.1	<0.1	NA	NA	<0.1	NA	NA	<0.1	NA	<0.1	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	<0.05	<0.1	NA	NA	<0.1	NA	NA	NA	<0.1	<0.1	NA	NA	<0.1	NA	NA	<0.1	NA	<0.1	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	<0.05	<0.1	NA	NA	<0.1	NA	NA	NA	<0.1	<0.1	NA	NA	<0.1	NA	NA	<0.1	NA	<0.1	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	<0.05	<0.1	NA	NA	<0.1	NA	NA	NA	<0.1	<0.1	NA	NA	<0.1	NA	NA	<0.1	NA	<0.1	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	<0.05	<0.05	NA	NA	<0.05	NA	NA	NA	<0.05	<0.05	NA	NA	<0.05	NA	NA	<0.05	NA	<0.05	NA
Total PCBs	ug/L	NA	<0.05	ND	NA	NA	ND	NA	NA	NA	ND	ND	NA	NA	ND	NA	NA	ND	NA	ND	NA
Inorganics																					
Antimony	mg/L	<0.005	<0.002	<0.002	<0.005	NA	<0.002	<0.005	0.018 ^a	0.008 ^a	0.005	<0.002	0.077 ^a	NA	<0.002	0.046 ^a	NA	<0.002	<0.005	<0.002	NA
Arsenic	mg/L	0.0062	0.007	0.015 ^{ab}	0.0028	NA	<0.002	0.0020	0.0293 ^{ab}	0.0145 ^{ab}	0.007	0.003	<0.0034	NA	0.013 ^{ab}	0.0068	NA	0.004	0.0005	0.002	NA
Barium	mg/L	0.056	0.042	0.068J	0.062	NA	0.040	1.68 ^b	1.78 ^b	0.035	0.028	0.028	1.22 ^b	NA	0.281	1.87 ^b	NA	0.018	0.046	0.060	NA
Beryllium	mg/L	0.0005	<0.001	NA	0.0006	NA	NA	0.0007	<0.0007	0.0006	NA	NA	<0.0009	NA	NA	<0.0006	NA	NA	0.0006	NA	NA
Boron	mg/L	0.106	0.14	0.11	0.086	NA	0.07	0.063	0.587 ^a	0.192	0.10	0.22	<0.044	NA	0.24	0.068	NA	0.09	0.250	0.19	NA
Cadmium	mg/L	<0.0005	<0.001	<0.001	<0.0005	NA	<0.001	0.0006	<0.0005	<0.0005	<0.001	<0.001	<0.0008	NA	<0.001	<0.0007	NA	<0.001	<0.0005	<0.001	NA
Chromium VI (hexavalent)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.02 J	<0.02	NA	<0.02	NA	NA	NA	NA	NA
Chromium	mg/L	<0.005	0.013	0.019	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005	NA	<0.010	<0.005	<0.005	<0.010	<0.005	<0.010	<0.005
Cobalt	mg/L	<0.005	<0.010	<0.010	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005	NA	<0.010	<0.005	<0.005	<0.010	<0.005	<0.010	<0.005
Copper	mg/L	<0.025	0.008 J	0.009	<0.025	NA	<0.002	<0.025	<0.025	0.079 ^b	0.036 ^b	0.002	<0.009	NA	<0.002	<0.005	NA	0.004	<0.025	0.007	NA
Lead	mg/L	0.0069 ^a	0.005 J ^a	0.003	<0.0025	NA	<0.002	0.0117 ^a	0.116 ^{ab}	1.49 ^{ab}	0.072 ^{ab}	<0.002	0.0061 ^a	NA	<0.002	0.0064 ^a	NA	<0.002	0.0027	0.018 ^a	NA
Manganese	mg/L	1.08 ^a	1.36 J ^a	0.927 ^a	0.052 ^a	NA	0.028	0.932 ^a	<0.016	<0.005	<0.010	0.265 ^a	<0.005	NA	0.572 ^a	<0.005	0.008	0.010	0.026	0.099 ^a	NA
Mercury	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	NA	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0002 ^b	NA	<0.0001	<0.0001	NA	<0.0001	<0.0001	<0.0001	NA
Nickel	mg/L	0.007	0.032 J	0.041	0.008	NA	<0.010	<0.005	<0.005	0.007	<0.010	<0.010	0.032	NA	<0.010	0.042	NA	<0.010	<0.005	<0.010	NA
Selenium	mg/L	<0.005	<0.002	<0.002	<0.005	NA	<0.002	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	NA	<0.002	<0.005	NA	<0.002	<0.005	<0.002	<0.005
Silver	mg/L	<0.0005	<0.0002	<0.0002	<0.0005	NA	<0.0002	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0004	NA	<0.0002	<0.0004	NA	<0.0002	<0.0005	<0.0002	NA
Thallium	mg/L	<0.0005	<0.002	NA	0.0006	NA	NA	<0.0005	<0.0005	0.0008	NA	NA	<0.0005	NA	NA	<0.0005	NA	NA	0.0007	NA	NA
Vanadium	mg/L	<0.0025	0.004	0.005 ^a	<0.0025	NA	<0.002	<0.0025	<0.0025	0.0228 ^a	0.020 ^a	<0.002	0.0164 ^a	NA	<0.002	0.0064 ^a	NA	0.008 ^a	<0.0025	0.006 ^a	NA
Zinc	mg/L	<0.005	0.020	0.025	<0.005	NA	<0.010	<0.005	<0.013	<0.005	<0.010	<0.010	<0.005	NA	<0.010	<0.005	NA	<0.010	<0.005	0.013	NA
Inorganics-Filtered																					
Antimony (dissolved)	mg/L	NA	<0.002	<0.002	NA	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.002	NA
Arsenic (dissolved)	mg/L	NA	0.003	0.012 ^{ab}	NA	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.002	NA
Barium (dissolved)	mg/L	NA	0.030	0.076J	NA	0.049	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.042	NA
Beryllium (dissolved)	mg/L	NA	<0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/L	NA	0.13	0.10	NA	0.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.19	NA
Cadmium (dissolved)	mg/L	NA	<0.001	<0.001	NA	<0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	NA
Chromium Total	mg/L	NA	<0.010	<0.010	NA	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.010	NA
Cobalt (dissolved)	mg/L	NA	<0.010	<0.010	NA	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.010	NA
Copper (dissolved)	mg/L	NA	<0.002	<0.002	NA	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.002	NA
Lead (dissolved)	mg/L	NA	<0.002	<0.002	NA	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.002	NA
Manganese (dissolved)	mg/L	NA	1.23 J ^a	0.791 ^a	NA	0.053 ^a	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.010	NA
Mercury (dissolved)	mg/L	NA	<0.0001	<0.0001	NA	<0.0001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0001	NA
Nickel (dissolved)	mg/L	NA	0.020	0.026	NA	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.010	NA
Selenium (dissolved)	mg/L	NA	<0.002	<0.002	NA	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.002	NA
Silver (dissolved)	mg/L	NA	<0.0002	<0.0002	NA	<0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA
Thallium (dissolved)	mg/L	NA	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (dissolved)	mg/L	NA	<0.002	0.003	NA	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.002	NA
Zinc (dissolved)	mg/L	NA	<0.010	<0.010	NA	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.010	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.6-NP224 3 - 8 05/29/12	SB-A5.6-NU227 0 - 5 05/25/12	SB-A5.6-NX224 5 - 10 05/29/12	SB-A5.6-OG217 4 - 9 05/29/12	SB-A5.7-MC272 11 - 15 11/06/12	SB-A5.7-MF238 5 - 9 09/14/12	SB-A5.7-ML247 14 - 18 09/06/12	SB-A5.7-MQ238 8 - 12 09/14/12	SB-A5.7-MQ243 4 - 8 09/06/12	SB-A5.7-MU227 7 - 11 05/23/12	SB-A5.7-MU235 11 - 15 05/23/12	SB-A5.7-MW238 10 - 15 05/23/12	SB-A5.7-MY231 10 - 15 05/24/12
	Units													
Volatile Organics														
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
1,2-Dibromoethane (Ethylene dibromide)	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
1,4-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
2-Hexanone	ug/L	<20	<20	<20	<20	<10	<10 [<10]	<10 [<10]	<10	<10	<20	<20	<20	<20
Acetone	ug/L	<50	<50	<50	<50	11	<10 [<10]	<10 [<10]	<10	<10	92	<50	<50	<50
Bromodichloromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
Bromoform	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
Bromomethane (Methyl bromide)	ug/L	NA	NA	NA	NA	<1	<1 [<1]	<1 [<1]	<1	<1	NA	NA	NA	NA
Carbon disulfide	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
Chloroform (Trichloromethane)	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
Chloromethane (Methyl chloride)	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<1 [<1]	<1 [<1]	<1	<1	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
Dichlorodifluoromethane (CFC-12)	ug/L	NA	NA	NA	NA	<1	<1 [<1]	<1 [<1]	<1	<1	NA	NA	NA	NA
Methyl acetate	ug/L	NA	NA	NA	NA	<10	<10 [<10]	<10 [<10]	<10	<10	NA	NA	NA	NA
Methylene chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
Styrene	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
trans-1,3-Dichloropropene	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
Trichlorofluoromethane (CFC-11)	ug/L	NA	NA	NA	NA	<1	<1 [<1]	<1 [<1]	<1	<1	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
1,4-Dioxane	ug/L	9	<5	<5	<5	<5	<5 [<5]	<5 [<5]	<5	<5	<5	<5	<5	6
1,1,1-Trichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
1,1,1,2-Tetrachloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
1,1,2-Trichloroethane	ug/L	<2.0	<2.0	2.9	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
cis-1,2-Dichloroethene	ug/L	<2.0	<2.0	<2.0	4.2	<1	<1 [<1]	9 [9]	<1	<1	<2.0	<2.0	<2.0	<2.0
trans-1,2-Dichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
Trichloroethene	ug/L	<2.0	<2.0	<2.0	3.3	<1	<1 [<1]	<1 [1]	<1	<1	<2.0	<2.0	<2.0	<2.0
Tetrachloroethene	ug/L	<2.0	<2.0	<2.0	0.74 J	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	2 [2]	<1	<1	<2.0	<2.0	<2.0	<2.0
Chloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
Benzene	ug/L	1.3 J	<2.0	<2.0	0.58 J	<1	<1 [<1]	<1 [<1]	<1	<1	9.8 ^a	24 ^a	20 ^a	16 ^a
Ethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	9.8	7.7	2.0 J
Toluene	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	0.27 J	29	23	4.7
o-Xylene	ug/L	<2.0	<2.0	0.48 J	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	0.39 J	18	14	1.6 J
m&p-Xylene	ug/L	<4.0	<4.0	<4.0	<4.0	<2	<2 [<2]	<2 [<2]	<2	<2	<4.0	58 ^b	45 ^b	5.1
Xylene (total)	ug/L	<6	<6	0.48 J	<6	<3	<3 [<3]	<3 [<3]	<3	<3	0.39 J	76 ^b	59 ^b	6.7 J
Methyl tert butyl ether (MTBE)	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	<20	<20	<20	<20	<10	<10 [<10]	<10 [<10]	<10	<10	<20	<20	<20	<20
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	<20	<20	<20	<20	<10	<10 [<10]	<10 [<10]	<10	<10	<20	<20	<20	<20
1,2,4-Trichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
1,2,4-Trimethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	NA	NA	NA	NA	NA	<2.0	16	12	<2.0
1,3,5-Trimethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	NA	NA	NA	NA	NA	<2.0	4.8	3.8	<2.0
1,2-Dichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
1,3-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
Cyclohexane	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	1.7 J	11	6.9	2.2
Methyl cyclohexane	ug/L	<2.0	<2.0	<2.0	0.79 J	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	1.6 J	1.5 J	0.91 J
Dibromochloromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	<2.0	<2.0	<2.0
Isopropyl benzene	ug/L	<2.0	<2.0	1.6 J	<2.0	<1	<1 [<1]	<1 [<1]	<1	<1	<2.0	2.1	1.7 J	<2.0
Naphthalene	ug/L	<2.0	<2.0	<2.0	<2.0	NA	NA	NA	NA	NA	<2.0	6.3	5.8	1.2 J

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.6-NP224 3 - 8 05/29/12	SB-A5.6-NU227 0 - 5 05/25/12	SB-A5.6-NX224 5 - 10 05/29/12	SB-A5.6-OG217 4 - 9 05/29/12	SB-A5.7-MC272 11 - 15 11/06/12	SB-A5.7-MF238 5 - 9 09/14/12	SB-A5.7-ML247 14 - 18 09/06/12	SB-A5.7-MQ238 8 - 12 09/14/12	SB-A5.7-MQ243 4 - 8 09/06/12	SB-A5.7-MU227 7 - 11 05/23/12	SB-A5.7-MU235 11 - 15 05/23/12	SB-A5.7-MW238 10 - 15 05/23/12	SB-A5.7-MY231 10 - 15 05/24/12
	Units													
Semivolatile Organics														
2-Methyl-4,6-dinitrophenol	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
2,4,6-Trichlorophenol	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
2,4-Dichlorophenol	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
2,4,5-Trichlorophenol	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
2,4-Dimethylphenol	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	9	<1	2
2,4-Dinitrophenol	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
2,4-Dinitrotoluene	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
2,6-Dinitrotoluene	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
2-Chloronaphthalene	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
2-Chlorophenol	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
2-Methylnaphthalene	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
2-Methylphenol	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	6	<1	<1
2-Nitroaniline	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
2-Nitrophenol	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
3&4-Methylphenol	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	14	<1	2
3,3'-Dichlorobenzidine	ug/L	<0.05	<0.05 J	<0.05	<0.05	NA	NA	NA	NA	NA	<0.06	<0.05	<0.05	<0.05
Naphthalene	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
3-Nitroaniline	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
4-Bromophenyl phenyl ether	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
4-Chloro-3-methylphenol	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
4-Chloroaniline	ug/L	<2	<2	<2	<2	NA	NA	NA	NA	NA	<2	<4	<2	<2
4-Chlorophenyl phenyl ether	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
4-Nitroaniline	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
4-Nitrophenol	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Anthracene	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Acenaphthene	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Acenaphthylene	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Acetophenone	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Atrazine	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Benzaldehyde	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Benzo(a)anthracene	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Benzo(a)pyrene	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Benzo(b)fluoranthene	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Benzo(g,h,i)perylene	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Benzo(k)fluoranthene	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Biphenyl (1,1-Biphenyl)	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
bis(2-Chloroethoxy)methane	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
bis(2-Chloroethyl)ether	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	<2	<2	<2	<2	NA	NA	NA	NA	NA	<2	<4	5	3
Butyl benzylphthalate (BBP)	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Caprolactam	ug/L	6	<1	18	12	NA	NA	NA	NA	NA	58	13	68	<1
Carbazole	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Chrysene	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Dibenz(a,h)anthracene	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Dibenzofuran	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Diethyl phthalate	ug/L	<2	<2	<2	<2	NA	NA	NA	NA	NA	<2	<4	<2	<2
Dimethyl phthalate	ug/L	6	6	17	5	NA	NA	NA	NA	NA	2	7	11	3
Di-n-butylphthalate (DBP)	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	1	<1
Di-n-octyl phthalate (DnOP)	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Fluoranthene	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Fluorene	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Hexachlorobenzene	ug/L	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	<0.06	<0.05	<0.05	<0.05
Hexachlorobutadiene	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Hexachlorocyclopentadiene	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Hexachloroethane	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Indeno(1,2,3-cd)pyrene	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Isophorone	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Nitrobenzene	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
N-Nitrosodi-n-propylamine	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
N-Nitrosodiphenylamine	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Pentachlorophenol	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Phenanthrene	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1
Phenol	ug/L	4	<1	3	4	NA	NA	NA	NA	NA	16	86	18	3
Pyrene	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	<1	<2	<1	<1

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.6-NP224 3 - 8 05/29/12	SB-A5.6-NU227 0 - 5 05/25/12	SB-A5.6-NX224 5 - 10 05/29/12	SB-A5.6-OG217 4 - 9 05/29/12	SB-A5.7-MC272 11 - 15 11/06/12	SB-A5.7-MF238 5 - 9 09/14/12	SB-A5.7-ML247 14 - 18 09/06/12	SB-A5.7-MQ238 8 - 12 09/14/12	SB-A5.7-MQ243 4 - 8 09/06/12	SB-A5.7-MU227 7 - 11 05/23/12	SB-A5.7-MU235 11 - 15 05/23/12	SB-A5.7-MW238 10 - 15 05/23/12	SB-A5.7-MY231 10 - 15 05/24/12
Units														
Semivolatile Organics-Filtered														
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.6-NP224 3 - 8 05/29/12	SB-A5.6-NU227 0 - 5 05/25/12	SB-A5.6-NX224 5 - 10 05/29/12	SB-A5.6-OG217 4 - 9 05/29/12	SB-A5.7-MC272 11 - 15 11/06/12	SB-A5.7-MF238 5 - 9 09/14/12	SB-A5.7-ML247 14 - 18 09/06/12	SB-A5.7-MQ238 8 - 12 09/14/12	SB-A5.7-MQ243 4 - 8 09/06/12	SB-A5.7-MU227 7 - 11 05/23/12	SB-A5.7-MU235 11 - 15 05/23/12	SB-A5.7-MW238 10 - 15 05/23/12	SB-A5.7-MY231 10 - 15 05/24/12
	Units													
PCBs														
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics														
Antimony	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered														
Antimony (dissolved)	mg/L	0.01 ^a	0.002	<0.002	<0.002	NA	NA	NA	NA	NA	0.006	0.004	0.005	0.033 ^a
Arsenic (dissolved)	mg/L	0.06 ^{ab}	<0.002	0.004	<0.002	0.090 ^{ab}	NA	NA	NA	NA	0.005	0.011 ^{ab}	0.014 ^{ab}	0.015 ^{ab}
Barium (dissolved)	mg/L	10.6 ^{ab}	0.034	0.157	0.033	0.16	NA	NA	NA	NA	1.49 ^b	0.109	0.533	0.926
Beryllium (dissolved)	mg/L	<0.001	<0.001	<0.001	<0.001	NA	NA	NA	NA	NA	<0.001	<0.001	<0.001	<0.001
Boron	mg/L	0.17	0.10	0.11	0.23	NA	NA	NA	NA	NA	0.12	0.10	0.23	0.15
Cadmium (dissolved)	mg/L	<0.005	<0.001	<0.001	<0.001	NA	NA	NA	NA	NA	<0.001	<0.001	<0.001	<0.001
Chromium Total	mg/L	<0.05	<0.010	<0.010	<0.010	NA	NA	NA	NA	NA	<0.010	<0.010	<0.010	<0.010
Cobalt (dissolved)	mg/L	<0.05	<0.010	<0.010	0.012	NA	NA	NA	NA	NA	<0.010	<0.010	<0.010	<0.010
Copper (dissolved)	mg/L	<0.01	0.004	<0.002	<0.002	NA	NA	NA	NA	NA	<0.002	<0.002	<0.002	0.004
Lead (dissolved)	mg/L	<0.01	0.005 ^a	<0.002	<0.002	NA	NA	NA	NA	NA	<0.002	<0.002	<0.002	<0.002
Manganese (dissolved)	mg/L	4.23 ^a	0.018	0.041	0.566 ^a	1.06 ^{j a}	NA	NA	NA	NA	0.482 ^a	<0.010	0.040	<0.010
Mercury (dissolved)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	NA	NA	NA	NA	NA	<0.0001	<0.0001	<0.0001	<0.0001
Nickel (dissolved)	mg/L	<0.05	<0.010	<0.010	<0.010	NA	NA	NA	NA	NA	<0.010	0.016	<0.010	<0.010
Selenium (dissolved)	mg/L	<0.01	<0.002	<0.002	<0.002	NA	NA	NA	NA	NA	<0.002	0.002	<0.002	<0.002
Silver (dissolved)	mg/L	<0.001	<0.0002	<0.0002	<0.0002	NA	NA	NA	NA	NA	<0.0002	<0.0002	<0.0002	<0.0002
Thallium (dissolved)	mg/L	<0.01	<0.002	<0.002	<0.002	NA	NA	NA	NA	NA	<0.002	<0.002	<0.002	<0.002
Vanadium (dissolved)	mg/L	<0.01	0.002	<0.002	<0.002	NA	NA	NA	NA	NA	<0.002	0.015 ^a	0.035 ^{ab}	0.009 ^a
Zinc (dissolved)	mg/L	<0.05	0.020	<0.010	<0.010	NA	NA	NA	NA	NA	<0.010	<0.010	<0.010	<0.010

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.7-MY235 15 - 20 05/24/12	SB-A5.8-MQ299 14 - 18 09/21/12	SB-A6-SL188 3 - 5 05/16/12	SB-A6-SL192 4 - 6 05/16/12	SB-A6-SN190 3 - 5 05/16/12	SB-A6-SN190 17 - 18 05/16/12	SB-A7-SZ209 9 - 14 06/05/12	SB-A7-SZ209 15 - 20 06/05/12	SB-A7-TD212 11 - 15 11/29/12	SB-A7-TI208 20 - 24 11/08/12	SB-A7-TI227 19 - 23 11/06/12	SB-A9-RT205 10 - 15 05/30/12	SB-A10-PJ230 21 - 25 09/24/12	SB-A10-PP230 22 - 26 09/24/12	SB-P6-KJ266 11 - 15 11/30/12
	Units															
Volatile Organics																
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
1,2-Dibromoethane (Ethylene dibromide)	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
1,2-Dichlorobenzene	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
1,4-Dichlorobenzene	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
2-Hexanone	ug/L	<20	NA	<20	<20	<20	<20	<10	<10	<10	<10	<10	<20	<10	<10	NA
Acetone	ug/L	<50	NA	<60 BJ	<80 B	<54 B	<50	<10	<10	<53 B	43	15	<50	<10	<10	NA
Bromodichloromethane	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
Bromoform	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
Bromomethane (Methyl bromide)	ug/L	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA
Carbon disulfide	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
Carbon tetrachloride	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
Chlorobenzene	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
Chloroform (Trichloromethane)	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
Chloromethane (Methyl chloride)	ug/L	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<1	<1	<1	<1	<1	<5.0	<1	<1	NA
cis-1,3-Dichloropropene	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
Dichlorodifluoromethane (CFC-12)	ug/L	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA
Methyl acetate	ug/L	NA	NA	NA	NA	NA	NA	<10	<10	<10	<10	<10	NA	<10	<10	NA
Methylene chloride	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
Styrene	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
trans-1,3-Dichloropropene	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
Trichlorofluoromethane (CFC-11)	ug/L	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA
Trifluorotrichloroethane (Freon 113)	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
1,4-Dioxane	ug/L	<5	<8 B	<5	<5	<5	<5	<5 J	<5 J	NA	<5	<5	<5	<8 B	<7 B	NA
1,1,1-Trichloroethane	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
1,1,2,2-Tetrachloroethane	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
1,1,2-Trichloroethane	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
1,1-Dichloroethane	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
1,1-Dichloroethene	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
1,2-Dichloroethane	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
cis-1,2-Dichloroethene	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	2.2	<1	<1	NA
trans-1,2-Dichloroethene	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
Trichloroethene	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
Tetrachloroethene	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	2.8	<1	<1	NA
Vinyl chloride	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
Chloroethane	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
Benzene	ug/L	16 ^a	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
Ethylbenzene	ug/L	5.5	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
Toluene	ug/L	0.96 J	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	0.33 J	<1	<1	NA
o-Xylene	ug/L	6.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
m&p-Xylene	ug/L	24	NA	<4.0	<4.0	<4.0	<4.0	<2	<2	<2	<2	<2	<4.0	<2	<2	NA
Xylene (total)	ug/L	30	NA	<6	<6	<6	<6	<3	<3	<3	<3	<3	<6	<3	<3	NA
Methyl tert butyl ether (MTBE)	ug/L	<2.0	NA	<2.0	<2.0 J	<2.0 J	1.4 J	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	<20	NA	<20	<20	<20	<20	<10	<10	<11 B	<10	<10	<20	<10	<10	NA
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	<20	NA	<20	<20	<20	<20	<10	<10	<10	<10	<10	<20 J	<10	<10	NA
1,2,4-Trichlorobenzene	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
1,2,4-Trimethylbenzene	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	NA	NA	NA	NA	NA	<2.0	NA	NA	NA
1,3,5-Trimethylbenzene	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	NA	NA	NA	NA	NA	<2.0	NA	NA	NA
1,2-Dichloropropane	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
1,3-Dichlorobenzene	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
Cyclohexane	ug/L	5.2	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
Methyl cyclohexane	ug/L	0.87 J	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
Dibromochloromethane	ug/L	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
Isopropyl benzene	ug/L	0.83 J	NA	<2.0	<2.0	<2.0	<2.0	<1	<1	<1	<1	<1	<2.0	<1	<1	NA
Naphthalene	ug/L	6.5	NA	<2.0	<2.0	<2.0	<2.0	NA	NA	NA	NA	NA	<2.0	NA	NA	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.7-MY235 15 - 20 05/24/12	SB-A5.8-MQ299 14 - 18 09/21/12	SB-A6-SL188 3 - 5 05/16/12	SB-A6-SL192 4 - 6 05/16/12	SB-A6-SN190 3 - 5 05/16/12	SB-A6-SN190 17 - 18 05/16/12	SB-A7-SZ209 9 - 14 06/05/12	SB-A7-SZ209 15 - 20 06/05/12	SB-A7-TD212 11 - 15 11/29/12	SB-A7-TI208 20 - 24 11/08/12	SB-A7-TI227 19 - 23 11/06/12	SB-A9-RT205 10 - 15 05/30/12	SB-A10-PJ230 21 - 25 09/24/12	SB-A10-PP230 22 - 26 09/24/12	SB-P6-KJ266 11 - 15 11/30/12
	Units															
Semivolatile Organics																
2-Methyl-4,6-dinitrophenol	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
2,4,6-Trichlorophenol	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1 J	<1 J	NA
2,4-Dichlorophenol	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1 J	<1 J	NA
2,4,5-Trichlorophenol	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1 J	<1 J	NA
2,4-Dimethylphenol	ug/L	10	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
2,4-Dinitrophenol	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1 J	<1 J	NA
2,4-Dinitrotoluene	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
2,6-Dinitrotoluene	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
2-Chloronaphthalene	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
2-Chlorophenol	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1 J	<1	<1	<1 J	<1 J	NA
2-Methylnaphthalene	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
2-Methylphenol	ug/L	2	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
2-Nitroaniline	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
2-Nitrophenol	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1 J	<1 J	NA
3&4-Methylphenol	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	NA
3,3'-Dichlorobenzidine	ug/L	<0.05	NA	<0.05	<0.06	<0.1	<0.06	<0.05	<0.05	<1	<1	<0.05	<0.05	<0.05	<0.05	NA
Naphthalene	ug/L	2	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
3-Nitroaniline	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
4-Bromophenyl phenyl ether	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
4-Chloro-3-methylphenol	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
4-Chloroaniline	ug/L	<2	NA	<2	<4	<2	<2	<2 J	<2 J	<2 J	<2	<1	<2	<2 J	<2 J	NA
4-Chlorophenyl phenyl ether	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
4-Nitroaniline	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
4-Nitrophenol	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1 J	<1 J	NA
Anthracene	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Acenaphthene	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Acenaphthylene	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Acetophenone	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Atrazine	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Benzaldehyde	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Benzo(a)anthracene	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Benzo(a)pyrene	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Benzo(b)fluoranthene	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Benzo(g,h,i)perylene	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Benzo(k)fluoranthene	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Biphenyl (1,1-Biphenyl)	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
bis(2-Chloroethoxy)methane	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
bis(2-Chloroethyl)ether	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	<2	NA	<2	<4	3	<2	<2	<2	5	<2	<1	<2	<3 B	<3 B	NA
Butyl benzylphthalate (BBP)	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Caprolactam	ug/L	<1	NA	<1	<2	2	<1	27	15	6	18	3	13	17	16	NA
Carbazole	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Chrysene	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Dibenz(a,h)anthracene	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	NA
Dibenzofuran	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Diethyl phthalate	ug/L	<2	NA	<2	<4	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	NA
Dimethyl phthalate	ug/L	12	NA	5	11	18	4	<5 B	<2 B	<2	<2	<1	<2	<2	<2	NA
Di-n-butylphthalate (DBP)	ug/L	<1	NA	<1	<2	2	<1	<1	<1	<1	<2 B	<1	<1	<1	<1	NA
Di-n-octyl phthalate (DnOP)	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Fluoranthene	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Fluorene	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Hexachlorobenzene	ug/L	<0.05	NA	<0.05	<0.06	<0.1	<0.06	<0.05	<0.05	<1	<1	<0.05	<0.05	<0.05	<0.05	NA
Hexachlorobutadiene	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Hexachlorocyclopentadiene	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Hexachloroethane	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Indeno(1,2,3-cd)pyrene	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Isophorone	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Nitrobenzene	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
N-Nitrosodi-n-propylamine	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
N-Nitrosodiphenylamine	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Pentachlorophenol	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Phenanthrene	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Phenol	ug/L	<1	NA	<1	<2	<1	<1	4	3	1	2	<1	7	2	2	NA
Pyrene	ug/L	<1	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.7-MY235 15 - 20 05/24/12	SB-A5.8-MQ299 14 - 18 09/21/12	SB-A6-SL188 3 - 5 05/16/12	SB-A6-SL192 4 - 6 05/16/12	SB-A6-SN190 3 - 5 05/16/12	SB-A6-SN190 17 - 18 05/16/12	SB-A7-SZ209 9 - 14 06/05/12	SB-A7-SZ209 15 - 20 06/05/12	SB-A7-TD212 11 - 15 11/29/12	SB-A7-TI208 20 - 24 11/08/12	SB-A7-TI227 19 - 23 11/06/12	SB-A9-RT205 10 - 15 05/30/12	SB-A10-PJ230 21 - 25 09/24/12	SB-A10-PP230 22 - 26 09/24/12	SB-P6-KJ266 11 - 15 11/30/12
	Units															
Semivolatile Organics-Filtered																
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SB-A5.7-MY235 15 - 20 05/24/12	SB-A5.8-MQ299 14 - 18 09/21/12	SB-A6-SL188 3 - 5 05/16/12	SB-A6-SL192 4 - 6 05/16/12	SB-A6-SN190 3 - 5 05/16/12	SB-A6-SN190 17 - 18 05/16/12	SB-A7-SZ209 9 - 14 06/05/12	SB-A7-SZ209 15 - 20 06/05/12	SB-A7-TD212 11 - 15 11/29/12	SB-A7-TI208 20 - 24 11/08/12	SB-A7-TI227 19 - 23 11/06/12	SB-A9-RT205 10 - 15 05/30/12	SB-A10-PJ230 21 - 25 09/24/12	SB-A10-PP230 22 - 26 09/24/12	SB-P6-KJ266 11 - 15 11/30/12
	Units															
PCBs																
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																
Antimony	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered																
Antimony (dissolved)	mg/L	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (dissolved)	mg/L	0.008	<0.002	NA	NA	NA	NA	NA	NA	0.009	0.009	0.006	NA	NA	NA	NA
Barium (dissolved)	mg/L	0.498	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.669 [0.669]
Beryllium (dissolved)	mg/L	<0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/L	0.12	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (dissolved)	mg/L	<0.001	<0.001	NA	NA	NA	NA	NA	NA	<0.001	<0.001	<0.001	NA	NA	NA	NA
Chromium Total	mg/L	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (dissolved)	mg/L	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (dissolved)	mg/L	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (dissolved)	mg/L	<0.002	<0.002	NA	NA	NA	NA	NA	NA	<0.002	0.002	0.002	NA	NA	NA	<0.002 [<0.002]
Manganese (dissolved)	mg/L	0.173 ^a	0.056 ^a	NA	NA	NA	NA	NA	NA	0.456 ^a	0.285 ^a	0.396 ^a	NA	NA	NA	0.639 [0.637] ^a
Mercury (dissolved)	mg/L	<0.0001	<0.0001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (dissolved)	mg/L	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (dissolved)	mg/L	<0.002	<0.002	NA	NA	NA	NA	NA	NA	<0.001	<0.001	<0.001	NA	NA	NA	NA
Silver (dissolved)	mg/L	<0.0002	<0.0002	NA	NA	NA	NA	NA	NA	<0.0002	<0.0002	<0.0002	NA	NA	NA	NA
Thallium (dissolved)	mg/L	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (dissolved)	mg/L	0.009 ^a	<0.002	NA	NA	NA	NA	NA	NA	0.007 ^a	0.005 ^a	0.006 ^a	NA	NA	NA	NA
Zinc (dissolved)	mg/L	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SME-MW-2 33 - 38 12/21/12	Unk-3 12/20/12	UNK-3 7 - 12 10/14/11	UNK-3 7 - 12 12/20/12	VAP-A5.6-ND208 36 - 38 05/18/12	VAP-A5.6-NF255 12 - 13 05/22/12	VAP-A5.6-NF255 37 - 38 05/23/12	VAP-A5.6-NR227 5 - 6 05/21/12	VAP-A5.6-NR227 36 - 38 05/21/12	VAP-A5.6-NS207 12.25 - 13.25 05/16/12	VAP-A5.6-OK232 7 - 8 05/23/12	VAP-A5.6-OK232 38 - 39 05/23/12	VAP-A5.7-MB257 7 - 8 05/24/12	VAP-A5.7-MB257 12 - 13 05/24/12
	Units														
Volatile Organics															
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	<1	<1	<0.05 J	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dibromoethane (Ethylene dibromide)	ug/L	<1	<1	<0.02	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,4-Dichlorobenzene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	19^b	<2.0	<2.0	<2.0	<2.0
2-Hexanone	ug/L	<10	<10	<10	<10	<20	<20 [<20]	<20 [<20]	<20	<20	<20	<20	<20	<20	<20
Acetone	ug/L	<10	<10	<10	<10	<50 J	<50 [<50]	<50 [<50]	91 B	130 B	<50	<50	<50	<50	<50
Bromodichloromethane	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromomethane (Methyl bromide)	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	210^{ab}	<2.0	<2.0	<2.0	<2.0
Chloroform (Trichloromethane)	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloromethane (Methyl chloride)	ug/L	<1	<1	<1	<1	<5.0	<5.0 [<5]	<5.0 [<5]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dichlorodifluoromethane (CFC-12)	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	ug/L	<10	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
trans-1,3-Dichloropropene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trichlorofluoromethane (CFC-11)	ug/L	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluorotrichloroethane (Freon 113)	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,4-Dioxane	ug/L	14	<5	<5	<5	47	<5	68 [72]	<5 J	52	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	0.40 J	<2.0	<2.0	<2.0
1,1,2,2-Tetrachloroethane	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,2-Trichloroethane	ug/L	<1	<1	<1	<1	<2.0	2.6 [1.9 J]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	0.76 J	<2.0	<2.0	<2.0
1,1-Dichloroethene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethane	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
cis-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	18	1.3 J	9.0	0.61 J
trans-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	1.2 J	<2.0	0.70 J	<2.0
Trichloroethene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	16^a	<2.0	0.89 J	<2.0
Tetrachloroethene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	12^a	0.57 J	<2.0	<2.0
Vinyl chloride	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	13 J^a	<2.0
Chloroethane	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Benzene	ug/L	<1	<1	<1	<1	<2.0	35 [34]^a	<2.0 [<2]	<2.0	<2.0	5.1^a	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
m&p-Xylene	ug/L	<2	<2	<2	<2	<4.0	<4.0 [<4]	<4.0 [<4]	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Xylene (total)	ug/L	<3	NA	<3	<3	<6	<6 [<6]	<6 [<6]	<6	<6	<6	<6	<6	<6	<6
Methyl tert butyl ether (MTBE)	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0 J	<2.0	<2.0	<2.0	<2.0
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	<10	<10	<10	<10	<20	<20 [<20]	<20 [<20]	<20	<20	<20	<20	<20	<20	<20
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	<10	<10	<10	<10	<20	<20 [<20]	<20 [<20]	<20	<20	<20	<20	<20	<20	<20
1,2,4-Trichlorobenzene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2,4-Trimethylbenzene	ug/L	NA	NA	NA	NA	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,3,5-Trimethylbenzene	ug/L	NA	NA	NA	NA	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloropropane	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,3-Dichlorobenzene	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	3.5	<2.0	<2.0	<2.0	<2.0
Cyclohexane	ug/L	<1	<1	<1	<1	<2.0	3.2 J [2.8 J]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methyl cyclohexane	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dibromochloromethane	ug/L	<1	<1	<1	<1	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Isopropyl benzene	ug/L	<1	<1	<1	<1	<2.0	6.2 [5.4]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Naphthalene	ug/L	NA	NA	NA	NA	<2.0	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SME-MW-2 33 - 38 12/21/12	Unk-3 12/20/12	UNK-3 7 - 12 10/14/11	UNK-3 7 - 12 12/20/12	VAP-A5.6-ND208 36 - 38 05/18/12	VAP-A5.6-NF255 12 - 13 05/22/12	VAP-A5.6-NF255 37 - 38 05/23/12	VAP-A5.6-NR227 5 - 6 05/21/12	VAP-A5.6-NR227 36 - 38 05/21/12	VAP-A5.6-NS207 12.25 - 13.25 05/16/12	VAP-A5.6-OK232 7 - 8 05/23/12	VAP-A5.6-OK232 38 - 39 05/23/12	VAP-A5.7-MB257 7 - 8 05/24/12	VAP-A5.7-MB257 12 - 13 05/24/12
	Units														
Semivolatile Organics															
2-Methyl-4,6-dinitrophenol	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
2,4-Dichlorophenol	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
2,4,5-Trichlorophenol	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
2,4-Dimethylphenol	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
2,4-Dinitrophenol	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
2,4-Dinitrotoluene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
2,6-Dinitrotoluene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
2-Chloronaphthalene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
2-Chlorophenol	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	2	<1	<1	<1	<1
2-Methylnaphthalene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
2-Methylphenol	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
2-Nitroaniline	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
2-Nitrophenol	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
3&4-Methylphenol	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
3,3'-Dichlorobenzidine	ug/L	NA	NA	<0.05	NA	<0.05	<0.05 [<0.05]	<0.05 [<0.05]	<0.05	<0.05	<0.05	<0.06	<0.05	<0.05	<0.05
Naphthalene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
3-Nitroaniline	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
4-Bromophenyl phenyl ether	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
4-Chloroaniline	ug/L	<1	<1	<2	<1	<2	<2 [<2]	<2 [<2]	<2	<2	<2	<2	<2	<2	<2
4-Chlorophenyl phenyl ether	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
4-Nitroaniline	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
4-Nitrophenol	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Anthracene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Acenaphthene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Acenaphthylene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Acetophenone	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	5	<1	<1	<1	<1
Atrazine	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Benzaldehyde	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Benzo(a)pyrene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Benzo(b)fluoranthene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Benzo(k)fluoranthene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Biphenyl (1,1-Biphenyl)	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
bis(2-Chloroethoxy)methane	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
bis(2-Chloroethyl)ether	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	1	<1	<2	<1	<2	<2 [<2]	<2 [<2]	<2	<2	<2	<2	<2	<2	3
Butyl benzylphthalate (BBP)	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Caprolactam	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Carbazole	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Chrysene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Dibenz(a,h)anthracene	ug/L	<2	<2	<1	<2	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Dibenzofuran	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Diethyl phthalate	ug/L	<1	<1	<2	<1	<2	<2 [<2]	<2 [<2]	2	<2	<2	<2	<2	<2	<2
Dimethyl phthalate	ug/L	<1	<1	<2	<1	7	4 [3]	<2 [<2]	7	4	<2	<2	<2	<2	<2
Di-n-butylphthalate (DBP)	ug/L	1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Di-n-octyl phthalate (DnOP)	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Fluoranthene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Fluorene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Hexachlorobenzene	ug/L	NA	NA	<0.05	NA	<0.05	<0.05 [<0.05]	<0.05 [<0.05]	<0.05	<0.05	<0.05	<0.06	<0.05	<0.05	<0.05
Hexachlorobutadiene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Hexachloroethane	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Indeno(1,2,3-cd)pyrene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Isophorone	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Nitrobenzene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
N-Nitrosodi-n-propylamine	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
N-Nitrosodiphenylamine	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Pentachlorophenol	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Phenanthrene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1
Phenol	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	3	<1	<1	<1	<1	<1	<1
Pyrene	ug/L	<1	<1	<1	<1	<1	<1 [<1]	<1 [<1]	<1	<1	<1	<1	<1	<1	<1

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SME-MW-2 33 - 38 12/21/12	Unk-3 12/20/12	UNK-3 7 - 12 10/14/11	UNK-3 7 - 12 12/20/12	VAP-A5.6-ND208 36 - 38 05/18/12	VAP-A5.6-NF255 12 - 13 05/22/12	VAP-A5.6-NF255 37 - 38 05/23/12	VAP-A5.6-NR227 5 - 6 05/21/12	VAP-A5.6-NR227 36 - 38 05/21/12	VAP-A5.6-NS207 12.25 - 13.25 05/16/12	VAP-A5.6-OK232 7 - 8 05/23/12	VAP-A5.6-OK232 38 - 39 05/23/12	VAP-A5.7-MB257 7 - 8 05/24/12	VAP-A5.7-MB257 12 - 13 05/24/12
	Units														
Semivolatile Organics-Filtered															
2-Methyl-4,6-dinitrophenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/L	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/L	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		SME-MW-2 33 - 38 12/21/12	Unk-3 12/20/12	UNK-3 7 - 12 10/14/11	UNK-3 7 - 12 12/20/12	VAP-A5.6-ND208 36 - 38 05/18/12	VAP-A5.6-NF255 12 - 13 05/22/12	VAP-A5.6-NF255 37 - 38 05/23/12	VAP-A5.6-NR227 5 - 6 05/21/12	VAP-A5.6-NR227 36 - 38 05/21/12	VAP-A5.6-NS207 12.25 - 13.25 05/16/12	VAP-A5.6-OK232 7 - 8 05/23/12	VAP-A5.6-OK232 38 - 39 05/23/12	VAP-A5.7-MB257 7 - 8 05/24/12	VAP-A5.7-MB257 12 - 13 05/24/12
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	ug/L	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	<0.1	<0.1	<0.05	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	<0.1	<0.1	<0.05	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	<0.1	<0.1	<0.05	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	<0.1	<0.1	<0.05	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	<0.1	<0.1	<0.05	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/L	ND	NA	<0.05	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics															
Antimony	mg/L	<0.002	<0.002	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	0.005	<0.002	0.004	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	0.395	0.053	0.035	0.053	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	NA	NA	<0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/L	0.06	0.08	0.16	0.08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	0.005^b	0.006^{ab}	0.002	0.006^{ab}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	0.012	<0.010	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	<0.010	<0.010	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	0.011	0.010	0.023^b	0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	0.008^a	0.005^a	0.003	0.005^a	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	0.166^a	0.617^a	0.508^a	0.617^a	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	0.254^{ab}	<0.010	0.012	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	0.003	<0.002	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	<0.0002	<0.0002	<0.0002 J	<0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	0.008^a	0.003	0.012^a	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	0.046	0.056	0.01	0.056	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered															
Antimony (dissolved)	mg/L	<0.002	NA	<0.002	NA	<0.002	<0.002 [<0.002]	<0.002 [<0.002]	0.004	<0.002	<0.002	<0.002	0.003	<0.002	<0.002
Arsenic (dissolved)	mg/L	0.004	NA	0.004	NA	0.006	0.010 [0.01]	0.010 [0.01]	0.003	0.007	0.005	<0.002	0.002	<0.002	0.007
Barium (dissolved)	mg/L	0.396	NA	0.026	NA	0.245	0.335 [0.332]	0.260 [0.285]	0.659	0.305	0.131	0.073	0.029	0.528	1.95^b
Beryllium (dissolved)	mg/L	NA	NA	<0.001	NA	<0.001	<0.001 [<0.001]	<0.001 [<0.001]	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/L	0.06	NA	0.16	NA	0.07	0.18 [0.17]	0.14 [0.13]	0.27	0.10	0.21	0.09	0.09	0.08	0.06
Cadmium (dissolved)	mg/L	0.002	NA	<0.001	NA	<0.001	<0.001 [<0.001]	<0.001 [<0.001]	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium Total	mg/L	<0.010	NA	<0.010	NA	<0.010	<0.010 [<0.01]	<0.010 [<0.01]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cobalt (dissolved)	mg/L	<0.010	NA	<0.010	NA	<0.010	<0.010 [<0.01]	<0.010 [<0.01]	<0.010	<0.010	<0.010	<0.010	<0.010	0.012	<0.010
Copper (dissolved)	mg/L	<0.002	NA	0.016	NA	<0.002	<0.002 [<0.002]	<0.002 [<0.002]	0.003	<0.002	<0.002	<0.002	0.003	<0.002	<0.002
Lead (dissolved)	mg/L	<0.002	NA	<0.002	NA	<0.002	<0.002 [<0.002]	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Manganese (dissolved)	mg/L	0.095^a	NA	0.241^a	NA	0.155^a	1.68 [1.69]^a	0.186 J [0.158 J]^a	1.53^a	0.184^a	0.349^a	0.063 J^a	<0.010 J	1.70^a	0.498^a
Mercury (dissolved)	mg/L	<0.0001	NA	<0.0001	NA	<0.0001	<0.0001 [<0.0001]	<0.0001 [<0.0001]	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Nickel (dissolved)	mg/L	0.053	NA	0.010	NA	<0.010	<0.010 [<0.01]	<0.010 [<0.01]	0.031	<0.010	<0.010	<0.010	<0.010	0.018	<0.010
Selenium (dissolved)	mg/L	0.003	NA	<0.002	NA	<0.002	<0.002 [<0.002]	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Silver (dissolved)	mg/L	<0.0002	NA	<0.0002	NA	<0.0002	<0.0002 [<0.0002]	<0.0002 [<0.0002]	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Thallium (dissolved)	mg/L	NA	NA	<0.002	NA	<0.002	<0.002 [<0.002]	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Vanadium (dissolved)	mg/L	0.006^a	NA	0.011^a	NA	<0.002	<0.002 [<0.002]	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	0.006^a	<0.002	<0.002
Zinc (dissolved)	mg/L	0.011	NA	<0.010	NA	<0.010	<0.010 [<0.01]	<0.010 [<0.01]	0.016	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.7-MW234 12 - 13 05/29/12	VAP-A5.7-MW234 36.5 - 37.5 05/29/12	VAP-A5.8-NM300 17 - 18 05/31/12	VAP-A5.8-NM300 26 - 27 06/01/12	VAP-A5.8-NM300 40 - 41 06/01/12	VAP-A5.8-OD312 17 - 18 05/31/12	VAP-A5.8-OD312 33 - 34 05/31/12	VAP-A6-SL191 38 - 40 06/07/12	VAP-A7-SU211 29 - 30 06/06/12	VAP-A7-SU211 37 - 38 06/06/12	VAP-A9-RR209 7 - 8 06/04/12	VAP-A9-RR209 50 - 51 06/05/12	VAP-A9-RR242 17 - 19 09/19/12
	Units													
Volatile Organics														
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
1,2-Dibromoethane (Ethylene dibromide)	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
1,2-Dichlorobenzene	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
1,4-Dichlorobenzene	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
2-Hexanone	ug/L	<20 [<20]	<20 [<20]	<20	<20	<20	<20	<20 [<20]	<10	<10 [<10]	<10	<10,000	<10	<10
Acetone	ug/L	<50 [<50]	<50 [<50]	<50	<50	64	55 J	<50 J [<50 J]	<10	<10 [<10]	<10	<10,000	<10	<10
Bromodichloromethane	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
Bromoform	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
Bromomethane (Methyl bromide)	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<1 [<1]	<1	<1,000	<1	<1
Carbon disulfide	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
Carbon tetrachloride	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
Chlorobenzene	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
Chloroform (Trichloromethane)	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
Chloromethane (Methyl chloride)	ug/L	<5.0 [<5]	<5.0 [<5]	<5.0	<5.0	<5.0	<5.0	<5.0 [<5]	<1	<1 [<1]	<1	<1,000	<1	<1
cis-1,3-Dichloropropene	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
Dichlorodifluoromethane (CFC-12)	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<1 [<1]	<1	<1,000	<1	<1
Methyl acetate	ug/L	NA	NA	NA	NA	NA	NA	NA	<10	<10 [<10]	<10	<10,000	<10	<10
Methylene chloride	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
Styrene	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
trans-1,3-Dichloropropene	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
Trichlorofluoromethane (CFC-11)	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	<1 [<1]	<1	<1,000	<1	<1
Trifluorotrichloroethane (Freon 113)	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
1,4-Dioxane	ug/L	<5	16	16	<20	<20	7	6	7 J	<5 J [<100]	<5 J	<10 J	<5 J	<5
1,1,1-Trichloroethane	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
1,1,2-Trichloroethane	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
1,1-Dichloroethane	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
1,1-Dichloroethene	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
1,2-Dichloroethane	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
cis-1,2-Dichloroethene	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
trans-1,2-Dichloroethene	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
Trichloroethene	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
Tetrachloroethene	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
Vinyl chloride	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
Chloroethane	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
Benzene	ug/L	25 [24] ^a	1.8 J [0.3 J]	<2.0	<2.0	0.23 J	<2.0	<2.0 [<2]	<1	4 [4]	<1	<1,000	<1	<1
Ethylbenzene	ug/L	0.69 J [0.65 J]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	33,000 Y ^{abh}	20 ^b	<1
Toluene	ug/L	0.55 J [0.48 J]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	2	<1
o-Xylene	ug/L	1.6 J [1.6 J]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	24,000 Y ^{abh}	18	<1
m&p-Xylene	ug/L	16 [15]	<4.0 [<4]	<4.0	<4.0	<4.0	<4.0	<4.0 [<4]	<2	2 [<2]	<2	124,000 Y ^{abfh}	62 ^b	<2
Xylene (total)	ug/L	17.6 J [16.6 J]	<6 [<6]	<6	<6	<6	<6	<6 [<6]	<3	2 [<3]	<3	148,000 ^{abfh}	80 ^b	<3
Methyl tert butyl ether (MTBE)	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	<20 [<20]	<20 [<20]	<20	<20	<20	<20	<20 [<20]	<10	<10 [<10]	<10	<10,000	<10	<10
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	<20 [<20]	<20 [<20]	<20 J	<20	<20	<20	<20 [<20]	<10	<10 [<10]	<10	<10,000	<10	<10
1,2,4-Trichlorobenzene	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
1,2,4-Trimethylbenzene	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
1,3-Dichlorobenzene	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
Cyclohexane	ug/L	3.3 [3.6]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	1 [<1]	<1	<1,000	<1	<1
Methyl cyclohexane	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	1 [<1]	<1	<1,000	<1	<1
Dibromochloromethane	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
Isopropyl benzene	ug/L	<2.0 [<2]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<1	<1 [<1]	<1	<1,000	<1	<1
Naphthalene	ug/L	1.2 J [1.4 J]	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	NA	NA	NA	NA	NA	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.7-MW234 12 - 13 05/29/12	VAP-A5.7-MW234 36.5 - 37.5 05/29/12	VAP-A5.8-NM300 17 - 18 05/31/12	VAP-A5.8-NM300 26 - 27 06/01/12	VAP-A5.8-NM300 40 - 41 06/01/12	VAP-A5.8-OD312 17 - 18 05/31/12	VAP-A5.8-OD312 33 - 34 05/31/12	VAP-A6-SL191 38 - 40 06/07/12	VAP-A7-SU211 29 - 30 06/06/12	VAP-A7-SU211 37 - 38 06/06/12	VAP-A9-RR209 7 - 8 06/04/12	VAP-A9-RR209 50 - 51 06/05/12	VAP-A9-RR242 17 - 19 09/19/12
	Units													
Semivolatile Organics														
2-Methyl-4,6-dinitrophenol	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	R	<1 [<1]	<1	<30 J	<1	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 J	<1	NA
2,4,6-Trichlorophenol	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	R	<1 [<1]	<1	<30 X	<1	NA
2,4-Dichlorophenol	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	R	<1 [<1]	<1	<30 J	<1	NA
2,4,5-Trichlorophenol	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	R	<1 [<1]	<1	<30 X	<1	NA
2,4-Dimethylphenol	ug/L	5 [4]	<1 [<1]	NA	NA	NA	NA	NA	R	<1 [<1]	<1	<30 J	2	NA
2,4-Dinitrophenol	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	R	<1 [<1]	<1	<30 J	<1	NA
2,4-Dinitrotoluene	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 J	<1	NA
2,6-Dinitrotoluene	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 J	<1	NA
2-Chloronaphthalene	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 X	<1	NA
2-Chlorophenol	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	R	<1 [<1]	<1	<30 X	<1	NA
2-Methylnaphthalene	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 X	<1	NA
2-Methylphenol	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	R	<1 [<1]	<1	<30 X	<1	NA
2-Nitroaniline	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 X	<1	NA
2-Nitrophenol	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	R	<1 [<1]	<1	<30 X	<1	NA
3&4-Methylphenol	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	R	<1 [<1]	<1	<30 J	<1	NA
3,3'-Dichlorobenzidine	ug/L	<0.05 [<0.05]	<0.05 [<0.05]	NA	NA	NA	NA	NA	<0.05 J	<0.05 [<0.05]	<0.05	<0.3	<0.05	NA
Naphthalene	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 X	<1	NA
3-Nitroaniline	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1	<1 [<1]	<1	<30 X	<1	NA
4-Bromophenyl phenyl ether	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 J	<1	NA
4-Chloro-3-methylphenol	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	R	<1 [<1]	<1	<30 J	<1	NA
4-Chloroaniline	ug/L	<2 [<2]	<2 [<2]	NA	NA	NA	NA	NA	<2 J	<2 J [<2 J]	<2 J	<60 J	<2	NA
4-Chlorophenyl phenyl ether	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 J	<1	NA
4-Nitroaniline	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1	<1 [<1]	<1	<30 J	<1	NA
4-Nitrophenol	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1	<1 [<1]	<1	<30 J	<1	NA
Anthracene	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 J	<1	NA
Acenaphthene	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 J	<1	NA
Acenaphthylene	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 J	<1	NA
Acetophenone	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 X	<1	NA
Atrazine	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1	<1 [<1]	<1	<30 J	<1	NA
Benzaldehyde	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<1,420 J	<1	NA
Benzo(a)anthracene	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 J	<1	NA
Benzo(a)pyrene	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1	<1 [<1]	<1	<30 J	<1	NA
Benzo(b)fluoranthene	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1	<1 [<1]	<1	<30 J	<1	NA
Benzo(g,h,i)perylene	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 J	<1	NA
Benzo(k)fluoranthene	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 J	<1	NA
Biphenyl (1,1-Biphenyl)	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 X	<1	NA
bis(2-Chloroethoxy)methane	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1	<1 [<1]	<1	<30 J	<1	NA
bis(2-Chloroethyl)ether	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 J	<1	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	<2 [2]	<2 [<2]	NA	NA	NA	NA	NA	<2	12 J [<2 J] ^a	<2	<60 J	<2	NA
Butyl benzylphthalate (BBP)	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1	<1 [<1]	<1	<30 J	<1	NA
Caprolactam	ug/L	8 J [24]	16 J [8 J]	NA	NA	NA	NA	NA	R	<1 [<1]	<1	<30 J	33	NA
Carbazole	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 J	<1	NA
Chrysene	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1	<1 [<1]	<1	<30 J	<1	NA
Dibenz(a,h)anthracene	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 J	<1	NA
Dibenzofuran	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 J	<1	NA
Diethyl phthalate	ug/L	<2 [<2]	<2 [<2]	NA	NA	NA	NA	NA	<2 J	<2 [<2]	<2	<60 J	<2	NA
Dimethyl phthalate	ug/L	23 [22]	19 J [3 J]	NA	NA	NA	NA	NA	<2 J	<2 [<2]	<2	<60 J	<2	NA
Di-n-butylphthalate (DBP)	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 J	<1	NA
Di-n-octyl phthalate (DnOP)	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	9 J [<1 J]	<1	<30 J	<1	NA
Fluoranthene	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 J	<1	NA
Fluorene	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 J	<1	NA
Hexachlorobenzene	ug/L	<0.05 [<0.05]	<0.05 [<0.05]	NA	NA	NA	NA	NA	<0.05 J	<0.05 [<0.05]	<0.05	<0.3	<0.05	NA
Hexachlorobutadiene	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 J	<1	NA
Hexachlorocyclopentadiene	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 J	<1	NA
Hexachloroethane	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 J	<1	NA
Indeno(1,2,3-cd)pyrene	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 J	<1	NA
Isophorone	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1	<1 [<1]	<1	<30 J	<1	NA
Nitrobenzene	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 X	<1	NA
N-Nitrosodi-n-propylamine	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1	<1 [<1]	<1	<30 J	<1	NA
N-Nitrosodiphenylamine	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 J	<1	NA
Pentachlorophenol	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	R	<1 [<1]	<1	<30 J	<1	NA
Phenanthrene	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1 J	<1 [<1]	<1	<30 J	<1	NA
Phenol	ug/L	2 [3]	4 [2]	NA	NA	NA	NA	NA	R	<1 [<1]	<1	<30 J	4	NA
Pyrene	ug/L	<1 [<1]	<1 [<1]	NA	NA	NA	NA	NA	<1	<1 [<1]	<1	<30 J	<1	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.7-MW234 12 - 13 05/29/12	VAP-A5.7-MW234 36.5 - 37.5 05/29/12	VAP-A5.8-NM300 17 - 18 05/31/12	VAP-A5.8-NM300 26 - 27 06/01/12	VAP-A5.8-NM300 40 - 41 06/01/12	VAP-A5.8-OD312 17 - 18 05/31/12	VAP-A5.8-OD312 33 - 34 05/31/12	VAP-A6-SL191 38 - 40 06/07/12	VAP-A7-SU211 29 - 30 06/06/12	VAP-A7-SU211 37 - 38 06/06/12	VAP-A9-RR209 7 - 8 06/04/12	VAP-A9-RR209 50 - 51 06/05/12	VAP-A9-RR242 17 - 19 09/19/12
	Units													
Semivolatile Organics-Filtered														
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A5.7-MW234 12 - 13 05/29/12	VAP-A5.7-MW234 36.5 - 37.5 05/29/12	VAP-A5.8-NM300 17 - 18 05/31/12	VAP-A5.8-NM300 26 - 27 06/01/12	VAP-A5.8-NM300 40 - 41 06/01/12	VAP-A5.8-OD312 17 - 18 05/31/12	VAP-A5.8-OD312 33 - 34 05/31/12	VAP-A6-SL191 38 - 40 06/07/12	VAP-A7-SU211 29 - 30 06/06/12	VAP-A7-SU211 37 - 38 06/06/12	VAP-A9-RR209 7 - 8 06/04/12	VAP-A9-RR209 50 - 51 06/05/12	VAP-A9-RR242 17 - 19 09/19/12
	Units													
PCBs														
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics														
Antimony	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered														
Antimony (dissolved)	mg/L	0.004 [0.005]	0.008 [0.002] ^a	<0.002	<0.002	0.002	<0.002	<0.002 [<0.002]	NA	NA	NA	NA	NA	NA
Arsenic (dissolved)	mg/L	0.014 [0.015] ^{ab}	0.005 [0.004]	<0.002	<0.002	<0.002	<0.002	<0.002 [<0.002]	NA	NA	NA	NA	NA	NA
Barium (dissolved)	mg/L	0.500 [0.528]	0.320 [0.269]	0.110	0.095	0.093	0.049	0.078 [0.083]	NA	NA	NA	NA	NA	NA
Beryllium (dissolved)	mg/L	<0.001 [<0.001]	<0.001 [<0.001]	<0.001	<0.001	<0.001	<0.001	<0.001 [<0.001]	NA	NA	NA	NA	NA	NA
Boron	mg/L	0.13 [0.13]	0.11 [0.11]	0.09	<0.04	0.09	0.45	0.42 [0.42]	NA	NA	NA	NA	NA	NA
Cadmium (dissolved)	mg/L	<0.001 [<0.001]	<0.001 [<0.001]	<0.001	<0.001	<0.001	<0.001	<0.001 [<0.001]	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	<0.010 [<0.01]	<0.010 [<0.01]	<0.010	<0.010	<0.010	<0.010	<0.010 [<0.01]	NA	NA	NA	NA	NA	NA
Cobalt (dissolved)	mg/L	<0.010 [<0.01]	<0.010 [<0.01]	<0.010	<0.010	0.013	<0.010	<0.010 [<0.01]	NA	NA	NA	NA	NA	NA
Copper (dissolved)	mg/L	<0.002 [<0.002]	<0.002 [<0.002]	0.006	<0.002	0.003	<0.002	<0.002 [<0.002]	NA	NA	NA	NA	NA	NA
Lead (dissolved)	mg/L	<0.002 [<0.002]	<0.002 [<0.002]	0.003	<0.002	<0.002	<0.002	<0.002 [<0.002]	NA	NA	NA	NA	NA	NA
Manganese (dissolved)	mg/L	0.068 [0.059] ^a	0.249 [0.28] ^a	0.236 ^a	0.186 ^a	0.114 ^a	0.239 ^a	0.357 [0.347] ^a	NA	NA	NA	NA	NA	NA
Mercury (dissolved)	mg/L	<0.0001 [<0.0001]	<0.0001 [<0.0001]	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001 [<0.0001]	NA	NA	NA	NA	NA	NA
Nickel (dissolved)	mg/L	<0.010 [<0.01]	<0.010 [<0.01]	0.042	0.023	0.017	<0.010	0.026 [0.023]	NA	NA	NA	NA	NA	NA
Selenium (dissolved)	mg/L	<0.002 [<0.002]	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	<0.002 [<0.002]	NA	NA	NA	NA	NA	NA
Silver (dissolved)	mg/L	<0.0002 [<0.0002]	<0.0002 [<0.0002]	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002 [<0.0002]	NA	NA	NA	NA	NA	NA
Thallium (dissolved)	mg/L	<0.002 [<0.002]	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	<0.002 [<0.002]	NA	NA	NA	NA	NA	NA
Vanadium (dissolved)	mg/L	0.007 [0.008] ^a	<0.002 [<0.002]	<0.002	<0.002	<0.002	<0.002	<0.002 [<0.002]	NA	NA	NA	NA	NA	NA
Zinc (dissolved)	mg/L	<0.010 [<0.01]	<0.010 [<0.01]	0.020	0.021	<0.010	<0.010	<0.010 [<0.01]	NA	NA	NA	NA	NA	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A9-RR242 22.5 - 24.5 09/19/12	VAP-A9-RR242 40 - 42 09/20/12	VAP-A10-PE228 18 - 19 06/04/12	VAP-P6S-SY103 15 - 17 09/11/12	VAP-P6S-SY132 14 - 16 09/10/12	VAP-P6S-SY132 20 - 22 09/10/12	VAP-P6S-SY132 36 - 38 09/10/12
	Units							
Volatile Organics								
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
1,2-Dibromoethane (Ethylene dibromide)	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
2-Hexanone	ug/L	<10	<10 [<10]	<10	<10	<10	<10	<10
Acetone	ug/L	12	<10 [<10]	<10	<10	<10	<10	14
Bromodichloromethane	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
Bromomethane (Methyl bromide)	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
Carbon disulfide	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
Chloroform (Trichloromethane)	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
Chloromethane (Methyl chloride)	ug/L	2	<1 [<1]	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
Dichlorodifluoromethane (CFC-12)	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
Methyl acetate	ug/L	<10	<10 [<10]	<10	<10	<10	<10	<10
Methylene chloride	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
Styrene	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
Trichlorofluoromethane (CFC-11)	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
Trifluorotrichloroethane (Freon 113)	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
1,4-Dioxane	ug/L	<5	<10 B [<8 B]	<5 J	<5	<5	<5	<5
1,1,1-Trichloroethane	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
Trichloroethene	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
Tetrachloroethene	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
Vinyl chloride	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
Benzene	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
Toluene	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
o-Xylene	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
m&p-Xylene	ug/L	<2	<2 [<2]	<2	<2	<2	<2	<2
Xylene (total)	ug/L	<3	<3 [<3]	<3	<3	<3	<3	<3
Methyl tert butyl ether (MTBE)	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	<10	<10 [<10]	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	<10	<10 [<10]	<10	<10	<10	<10	<10
1,2,4-Trichlorobenzene	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
Cyclohexane	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
Methyl cyclohexane	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
Dibromochloromethane	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
Isopropyl benzene	ug/L	<1	<1 [<1]	<1	<1	<1	<1	<1
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A9-RR242 22.5 - 24.5 09/19/12	VAP-A9-RR242 40 - 42 09/20/12	VAP-A10-PE228 18 - 19 06/04/12	VAP-P6S-SY103 15 - 17 09/11/12	VAP-P6S-SY132 14 - 16 09/10/12	VAP-P6S-SY132 20 - 22 09/10/12	VAP-P6S-SY132 36 - 38 09/10/12
	Units							
Semivolatile Organics								
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/L	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A9-RR242 22.5 - 24.5 09/19/12	VAP-A9-RR242 40 - 42 09/20/12	VAP-A10-PE228 18 - 19 06/04/12	VAP-P6S-SY103 15 - 17 09/11/12	VAP-P6S-SY132 14 - 16 09/10/12	VAP-P6S-SY132 20 - 22 09/10/12	VAP-P6S-SY132 36 - 38 09/10/12
	Units							
Semivolatile Organics-Filtered								
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	ug/L	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/L	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/L	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/L	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA
Biphenyl (1,1-Biphenyl)	ug/L	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	NA	NA	NA	NA	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/L	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/L	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/L	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/L	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA
Isophorone	ug/L	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/L	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/L	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	NA	NA	NA	NA	NA	NA	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Location ID: Sample Depth(ft): Date Collected:		VAP-A9-RR242 22.5 - 24.5 09/19/12	VAP-A9-RR242 40 - 42 09/20/12	VAP-A10-PE228 18 - 19 06/04/12	VAP-P6S-SY103 15 - 17 09/11/12	VAP-P6S-SY132 14 - 16 09/10/12	VAP-P6S-SY132 20 - 22 09/10/12	VAP-P6S-SY132 36 - 38 09/10/12
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	ug/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	ug/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	ug/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	ug/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	ug/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	ug/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	ug/L	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/L	NA	NA	NA	NA	NA	NA	NA
Inorganics								
Antimony	mg/L	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	NA	NA	NA	NA	NA	NA	NA
Boron	mg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium VI (hexavalent)	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered								
Antimony (dissolved)	mg/L	NA	NA	<0.002	NA	NA	NA	NA
Arsenic (dissolved)	mg/L	NA	NA	0.006	NA	NA	NA	NA
Barium (dissolved)	mg/L	NA	NA	0.036	NA	NA	NA	NA
Beryllium (dissolved)	mg/L	NA	NA	<0.001	NA	NA	NA	NA
Boron	mg/L	NA	NA	0.06	NA	NA	NA	NA
Cadmium (dissolved)	mg/L	NA	NA	<0.001	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	<0.010	NA	NA	NA	NA
Cobalt (dissolved)	mg/L	NA	NA	<0.010	NA	NA	NA	NA
Copper (dissolved)	mg/L	NA	NA	<0.002	NA	NA	NA	NA
Lead (dissolved)	mg/L	NA	NA	<0.002	NA	NA	NA	NA
Manganese (dissolved)	mg/L	NA	NA	0.378 ^a	NA	NA	NA	NA
Mercury (dissolved)	mg/L	NA	NA	<0.0001	NA	NA	NA	NA
Nickel (dissolved)	mg/L	NA	NA	0.063	NA	NA	NA	NA
Selenium (dissolved)	mg/L	NA	NA	<0.002	NA	NA	NA	NA
Silver (dissolved)	mg/L	NA	NA	<0.0002	NA	NA	NA	NA
Thallium (dissolved)	mg/L	NA	NA	<0.002	NA	NA	NA	NA
Vanadium (dissolved)	mg/L	NA	NA	<0.002	NA	NA	NA	NA
Zinc (dissolved)	mg/L	NA	NA	0.033	NA	NA	NA	NA

TABLE 17
RFI Phase 2 Summary Report
RACER Plant 6
Summary of Groundwater Sample Analytical Results

Table Notes:

- Shading indicates result exceeding one or more MDEQ Part 201 Generic Cleanup Criteria and Screening Levels, Dated March 25, 2011.
- Bold fonts represent data where detections were noted above the MDL but below MDEQ Part 201 Generic Cleanup Criteria.
- Data shown in [] represent duplicate sample analytical results.
- mg/L - milligrams per liter
- µg/L - micrograms per liter
- * - Sample was analyzed in on-site lab with instruments calibrated to screening mode. This data was not validated
- ** - Sample collected by others and analytical reports provided to ARCADIS. This data was not validated
- ^a - Sample exceeds Residential Drinking Water Criteria
- ^b - Sample exceeds Groundwater Surface Water Interface Criteria
- ^c - Sample exceeds Groundwater Contact Criteria
- ^d - Sample exceeds Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria
- ^e - Sample exceeds Water Solubility Criteria
- ^f - Sample exceeds Flammability and Explosivity Screening Levels
- ^g - Sample exceeds Acute Inhalation Screening Levels
- ^h - Sample exceeds Non-Residential Groundwater Concentrations for Vapor Intrusion

MDEQ Criteria Footnotes: (as revised September 28, 2012)

- - = Not listed in the MDEQ Criteria Tables.
- ID = Insufficient data to develop a criterion.
- Na = Not available.
- NLV = Not likely to volatilize.
- A = Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005.
- D = Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb).
- E = Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA).
- F = Criterion is based on adverse impacts to plant life and phytotoxicity.
- G = Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. A hardness value of 257 mg/L was used.
- L = Criteria for lead are derived using a biologically based model, as allowed for under Section 20120a(10) of the NREPA, and are not calculated using the algorithms and assumptions specified in pathway-specific rules.
- M = Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.
- S = Criterion defaults to the hazardous substance-specific water solubility limit.
- W = Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with the Michigan drinking water standard of 80 µg/L.
- X = The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water
- AA = Comparison to these criteria may take into account an evaluation of whether the hazardous substances are adsorbed to particulates rather than dissolved in water and whether filtered groundwater samples were used to evaluate groundwater.

Lab Data Qualifiers:

- B = Compounds also found in associated method blank
- D = Compound quantified using a secondary dilution
- E = Analyte exceeds calibration range
- I = Matrix interference with internal standard
- J = The compound/constituent was positively identified; however, the associated numerical value is an estimated concentration only.
- K = Elevated reporting limits due to low total solids
- N = Normal Sample
- p = Benzo(b)fluoranthene and Benzo(k)fluoranthene integrated as one peak
- R = Rejected
- S = Surrogate recovery outside of control limits
- T = No correction for total solids
- UJ = The analyte was not detected above the quantitation limits, however the quantitation limits is estimated
- U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
- X = Elevated reporting limit due to matrix interference
- z = Sample preserved in the lab

TABLE 18
RFI Phase 2 Summary Report
RACER Plants 2, 3 and 6
Summary of Storm Structure Samples Analytical Results

Location ID: Date Collected:		Groundwater Surface Water Interface Criteria (DEQ 2012)	Plant 2						Plant 3		Plant 6			
			P2-MH-NW		P3-MH-S		P2 Outfall @ P3		P3-MH-NE		P6-MH-SW	P6-MH2-SW*	P6-MH-NE	P6-MH-NE
			11/06/12	01/18/13	11/07/12	01/18/13	11/07/12	01/18/13	11/07/12	01/18/13	11/06/12	01/18/13	11/07/12	01/18/13
Volatile Organics ⁽¹⁾														
Acetone	ug/L	1,700	ND	ND	ND	ND	ND	ND	ND	ND	ND	22	ND	ND
1,4-Dioxane (X)	ug/L	2,800	25	18	ND	12	17	10	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ug/L	740	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene (X)	ug/L	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
cis-1,2-Dichloroethene	ug/L	620	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	1
Ethylbenzene	ug/L	18	ND	ND	ND	ND	ND	ND	ND	ND	5	10	ND	ND
Methyl cyclohexane	ug/L	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Toluene	ug/L	270	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Xylene (total)	ug/L	41	ND	ND	ND	ND	ND	ND	ND	ND	30	64	ND	3
Semivolatile Organics ⁽¹⁾														
Benzo(a)anthracene	ug/L	--	ND	ND	ND	ND	ND	ND	ND	ND	4	ND	ND	ND
Benzo(a)pyrene	ug/L	--	ND	ND	ND	ND	ND	ND	ND	ND	4	ND	ND	ND
Benzo(b)fluoranthene	ug/L	--	ND	ND	ND	ND	ND	ND	ND	ND	4	ND	ND	ND
Benzo(g,h,i)perylene	ug/L	--	ND	ND	ND	ND	ND	ND	ND	ND	3	ND	ND	ND
Benzo(k)fluoranthene	ug/L	--	ND	ND	ND	ND	ND	ND	ND	ND	4	ND	ND	ND
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	25	ND	ND	ND	1	ND	ND	ND	1	2	1	1	2
Chrysene	ug/L	--	ND	ND	ND	ND	ND	ND	ND	ND	4	ND	ND	ND
Dimethyl phthalate	ug/L	--	ND	ND	3	ND	3	ND	ND	ND	ND	ND	8	ND
Di-n-butylphthalate (DBP)	ug/L	9.7	ND	ND	ND	ND	ND	ND	ND	1	1	1	2	2
Fluoranthene	ug/L	1.6	ND	ND	ND	ND	ND	ND	ND	ND	8	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ug/L	ID	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND
Napthalene	ug/L	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Phenanthrene	ug/L	2	ND	ND	ND	ND	ND	ND	ND	ND	4	ND	ND	ND
Pyrene	ug/L	ID	ND	ND	ND	ND	ND	ND	ND	ND	7	ND	ND	ND
See notes on page 2.														
Inorganics ⁽¹⁾														
Antimony (X)	mg/L	0.13	ND	ND	ND	ND	ND	ND	ND	ND	0.007	0.002	0.004	0.004
Arsenic	mg/L	0.01	0.007	0.003	0.002	0.002	0.003	ND	0.005	ND	0.014	0.003	0.009	0.006
Barium (G)	mg/L	1.2	0.06	0.075	0.16	0.1	0.10	0.103	0.14	0.059	0.14	0.049	0.18	0.177
Boron (X)	mg/L	7.2	0.33	0.23	0.12	0.19	0.25	0.16	0.33	0.2	0.31	0.26	0.16	0.13
Cadmium (G, X)	mg/L	0.0045	ND	ND	ND	ND	ND	ND	ND	ND	0.0013	ND	ND	ND
Chromium (See Note 2.)	mg/L	0.011	ND	ND	ND	ND	ND	ND	0.012	ND	0.027	ND	ND	ND
Cobalt	mg/L	0.1	ND	ND	ND	ND	ND	ND	0.006	ND	0.004	ND	ND	ND
Copper (G)	mg/L	0.02	0.003	0.003	0.002	0.002	0.003	0.002	0.052	0.003	0.118	0.006	ND	ND
Lead (G, X)	mg/L	0.044	0.003	0.005	0.003	ND	0.004	ND	0.039	ND	0.417	0.011	0.003	ND
Manganese (G, X)	mg/L	4.5	0.032	0.132	0.136	0.144	0.043	0.055	0.884	0.028	1.81	0.075	0.386	0.341
Mercury	mg/L	0.0000013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel (G)	mg/L	0.12	0.003	ND	0.004	ND	0.002	ND	0.043	ND	0.013	ND	0.003	ND
Selenium	mg/L	0.005	0.001	ND	0.001	ND	ND	ND	ND	ND	0.006	0.006	0.001	ND
Vanadium	mg/L	0.027	ND	ND	ND	ND	ND	ND	0.011	ND	0.014	0.004	0.004	0.003
Zinc (G)	mg/L	0.26	0.02	0.028	0.02	0.01	ND	ND	0.28	ND	0.42	0.03	0.03	0.025

TABLE 18
RFI Phase 2 Summary Report
RACER Plants 2, 3 and 6
Summary of Storm Structure Samples Analytical Results

General Notes:

1. GSI Criteria obtained from the MDEQ Part 201 generic cleanup Table 1, dated September 28, 2012.
2. The total chromium data is compared to the cleanup criteria for Chromium VI.
3. **Bold** and shading denotes a result above of the Groundwater Surface Water Interface Criteria.
4. - - indicates criteria is not developed.
5. *- Same storm sewer as P6-MH-SW but collected from next structure downgradient, immediately before the stormceptor
6. Gray shading - The January 18, 2013 samples for P3-MH-S and P3-MH-NE were inadvertently labeled with the same name, It is therefore unclear which result goes with which sample. Results will be confirmed during follow-up sampling events.
7. Only those constituents of concern (COCs) with detections are listed. If a COC is not listed then the lab results showed non-detect.

MDEQ Criteria Footnotes: (as revised September 28, 2012)

(G) Groundwater surface water interface (GSI) criterion depends on the water hardness of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life was calculated based on the average of readily available published hardness values calculated to be 257 mg/L. The generic GSI criterion is the lesser of the calculated FCV, the wildlife value (WV), and the surface water human nondrinking water value (HNDV).

(X) The GSI criterion is not protective for surface water that is used as a drinking water source.

ID = Insufficient data to develop a criterion.

- - = Not listed in the MDEQ Criteria Tables.

Acronyms and Abbreviations:

GSI = Groundwater Surface Water Interface

NA = Not analyzed

ND = Not detected.

TABLE 19
RFI Phase 2 Summary Report
RACER Plants 2 and 6
Summary of Soil Gas Monitoring Analytical Results

Location ID: Sample Depth(ft): Date Collected:	Units	Residential Sub- Slab Soil Gas Concentrations for Vapor Intrusion	Nonresidential Sub- Slab Soil Gas Concentrations for Vapor Intrusion	SG-A2-PC75 5 - 5.5 11/29/2012	SG-A2-PC77 5 - 5.5 11/29/2012	SG-A7-TC220 4 - 4.5 11/29/2012	SG-A7-TC221 4 - 4.5 11/29/2012
Acetone	ug/L ³	3.10E+05	1.30E+06	120	< 73	< 110	< 73
Benzene	ug/L ³	160	550	27	22	23	25
Benzyl chloride	ug/L ³	28	93	< 13	< 65	< 65	< 65
Bromodichloromethane	ug/L ³	75	250	< 2.5	< 9.2	< 9.2	< 9.2
Bromoform	ug/L ³	1,200	4,100	< 3.9	< 14	< 14	< 14
Bromomethane	ug/L ³	260	1,100	< 4.1	< 10	< 10	< 10
1,3-Butadiene*	ug/L ³	8.1	41	< 1.2	< 6	< 6	< 6
2-Butanone	ug/L ³	2.60E+05	1.10E+06	13	< 7.8	< 4.1	< 9.9
Carbon disulfide	ug/L ³	37,000	1.50E+05	3.9	< 7.9	87	< 8.1
Carbon tetrachloride	ug/L ³	230	760	< 2.4	< 8.4	< 8.4	< 8.4
Chlorobenzene	ug/L ³	3,700	15,000	< 1.7	< 6.4	< 6.4	< 6.4
Chloroethane	ug/L ³	5.20E+05	2.20E+06	< 0.92	< 3.5	< 3.5	< 3.5
Chloroform	ug/L ³	560	1,900	< 1.6	< 6.7	9.7	< 6.7
Chloromethane	ug/L ³	2,100	7,100	< 5.5	< 28	< 28	< 28
Cyclohexane	ug/L ³	3.10E+05	1.30E+06	36	22	38	32
Dibromochloromethane	ug/L ³	55	190	< 3.2	< 12	< 12	< 12
1,2-Dichlorobenzene	ug/L ³	16,000	66,000	< 2.3	< 8.3	< 8.3	< 8.3
1,3-Dichlorobenzene	ug/L ³	160	660	< 2.3	< 8.3	< 8.3	< 8.3
1,4-Dichlorobenzene	ug/L ³	200	660	< 2.3	< 9.7	< 9.7	< 9.7
Dichlorodifluoromethane	ug/L ³	2.60E+06	1.10E+07	4.5	< 6.4	64000 J, L+	730000 J, L+
1,1-Dichloroethane	ug/L ³	26,000	1.10E+05	< 1.5	< 5.6	< 5.6	< 5.6
1,2-Dichloroethane	ug/L ³	52	180	< 1.5	< 5.6	< 5.6	< 5.6
1,1-Dichloroethene	ug/L ³	10,000	44,000	< 11	< 54	< 54	< 54
cis-1,2-Dichloroethene	ug/L ³	1,800	7,400	< 1.5	< 5.4	< 5.4	< 5.4
trans-1,2-Dichloroethene	ug/L ³	3,700	15,000	< 1.3	< 5.4	7.9	< 5.4
1,2-Dichloropropane	ug/L ³	210	880	< 5.2	< 13	< 13	< 13
cis-1,3-Dichloropropene	ug/L ³	340	1,100	< 1.6	< 6.2	< 6.2	< 6.2
trans-1,3-Dichloropropene	ug/L ³	340	1,100	< 6.2	< 31	< 31	< 31
1,4-Dioxane	ug/L ³	NC	NC	< 1.3	< 5	< 5	< 5
Ethyl Acetate	ug/L ³	1.70E+05	7.00E+05	< 3.6	< 5	< 5	< 5
Ethylbenzene	ug/L ³	4,400	15,000	18	32	12	13
1,2-Dibromoethane	ug/L ³	2.3	7.6	< 2.8	< 11	< 11	< 11
4-Ethyltoluene	ug/L ³	NC	NC	4.8	< 7.3	< 6.8	< 6.8
n-Heptane	ug/L ³	1.80E+05	7.70E+05	92	39	59	41
Hexachlorobutadiene	ug/L ³	62	210	< 4.1	< 15	< 15	< 15
n-Hexane	ug/L ³	10,000	44,000	150	71	110	92
2-Hexanone	ug/L ³	2,100	8,800	< 4.6	< 5.9	< 5.9	< 5.9
Isopropanol	ug/L ³	NC	NC	< 6.1	< 31	< 31	< 31
2-Methylnaphthalene	ug/L ³	520	2,200	< 16	< 78	< 78	< 78
Methylene chloride	ug/L ³	2,900	9,700	< 9.5	< 48	< 48	< 48
4-Methyl-2-pentanone	ug/L ³	1.60E+05	6.60E+05	24	< 20	< 12	< 17
tert-Methyl butyl ether (MTBE)	ug/L ³	1.60E+05	6.60E+05	< 1.3	< 5	< 5	< 5
Naphthalene	ug/L ³	110	380	< 14	< 72	< 72	< 72
Propylene*	ug/L ³	31,000	1.30E+05	150	180	110	200
Styrene	ug/L ³	2,400	8,000	< 1.6	< 5.9	< 5.9	< 5.9
1,1,2,2-Tetrachloroethane	ug/L ³	23	79	< 2.6	< 9.5	< 9.5	< 9.5
Tetrachloroethene	ug/L ³	1,300	8,800	8	< 9.4	15	14
Tetrahydrofuran	ug/L ³	680	2,300	< 3.1	< 7.7	< 7.7	< 7.7
Toluene	ug/L ³	2.60E+05	1.10E+06	80	1000	52	42
1,2,4-Trichlorobenzene	ug/L ³	19,000	81,000	< 39	< 200	< 200	< 200
1,1,1-Trichloroethane	ug/L ³	52,000	2.20E+05	83	23	< 7.5	< 7.5
1,1,2-Trichloroethane	ug/L ³	85	280	< 2.1	< 7.6	< 7.6	< 7.6
Trichloroethene	ug/L ³	100	440	< 2	< 7.4	< 13	< 7.4
Trichlorofluoromethane	ug/L ³	2.90E+06	1.20E+07	9.3	< 15	27	21
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L ³	4.00E+06	1.70E+07	< 2.8	< 11	19	< 11
1,2,4-Trimethylbenzene	ug/L ³	11,000	48,000	11	15	11	12
1,3,5-Trimethylbenzene	ug/L ³	11,000	48,000	4.1	< 6.8	< 6.8	< 6.8
Vinyl acetate	ug/L ³	10,000	44,000	< 19	< 97	< 97	< 97
Vinyl chloride	ug/L ³	54	1,000	< 0.89	< 3.4	11	< 3.4
p,m-Xylene	ug/L ³	5,200	22,000	45	96	32	32
o-Xylene	ug/L ³	5,200	22,000	15	31	12	11

Notes:

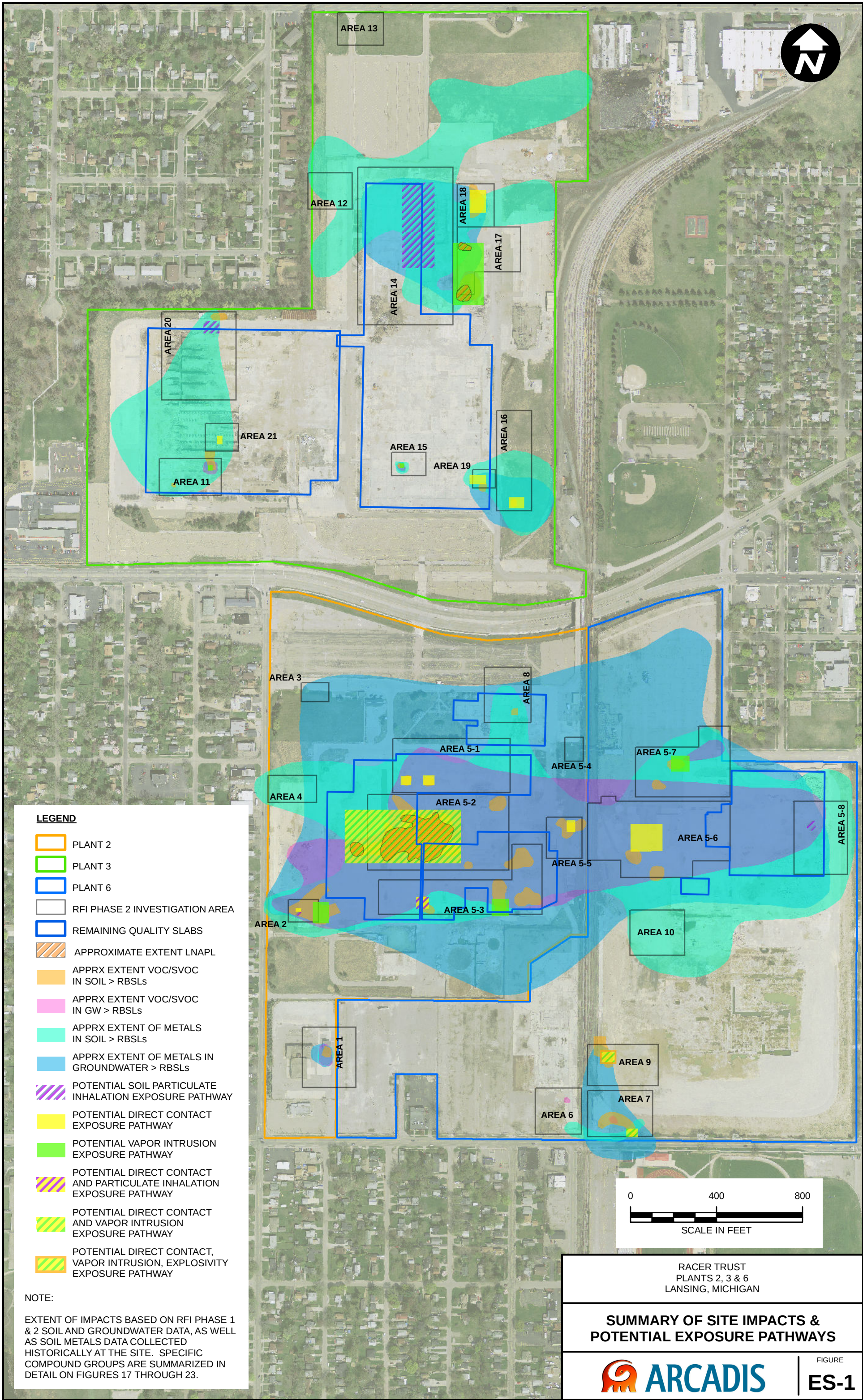
All values are in micrograms per cubic meter (ug/m³)

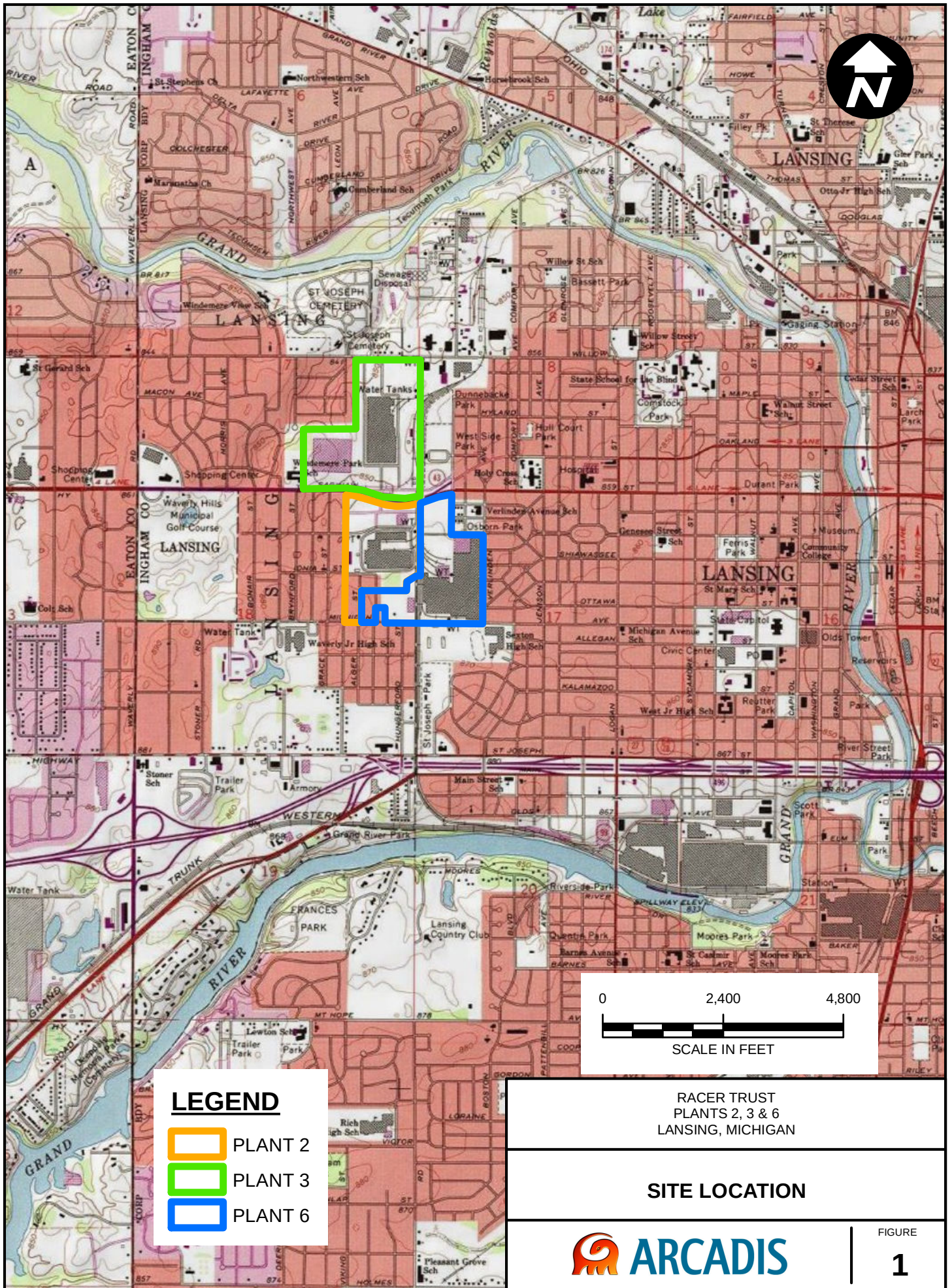
J: The concentration is an estimated value

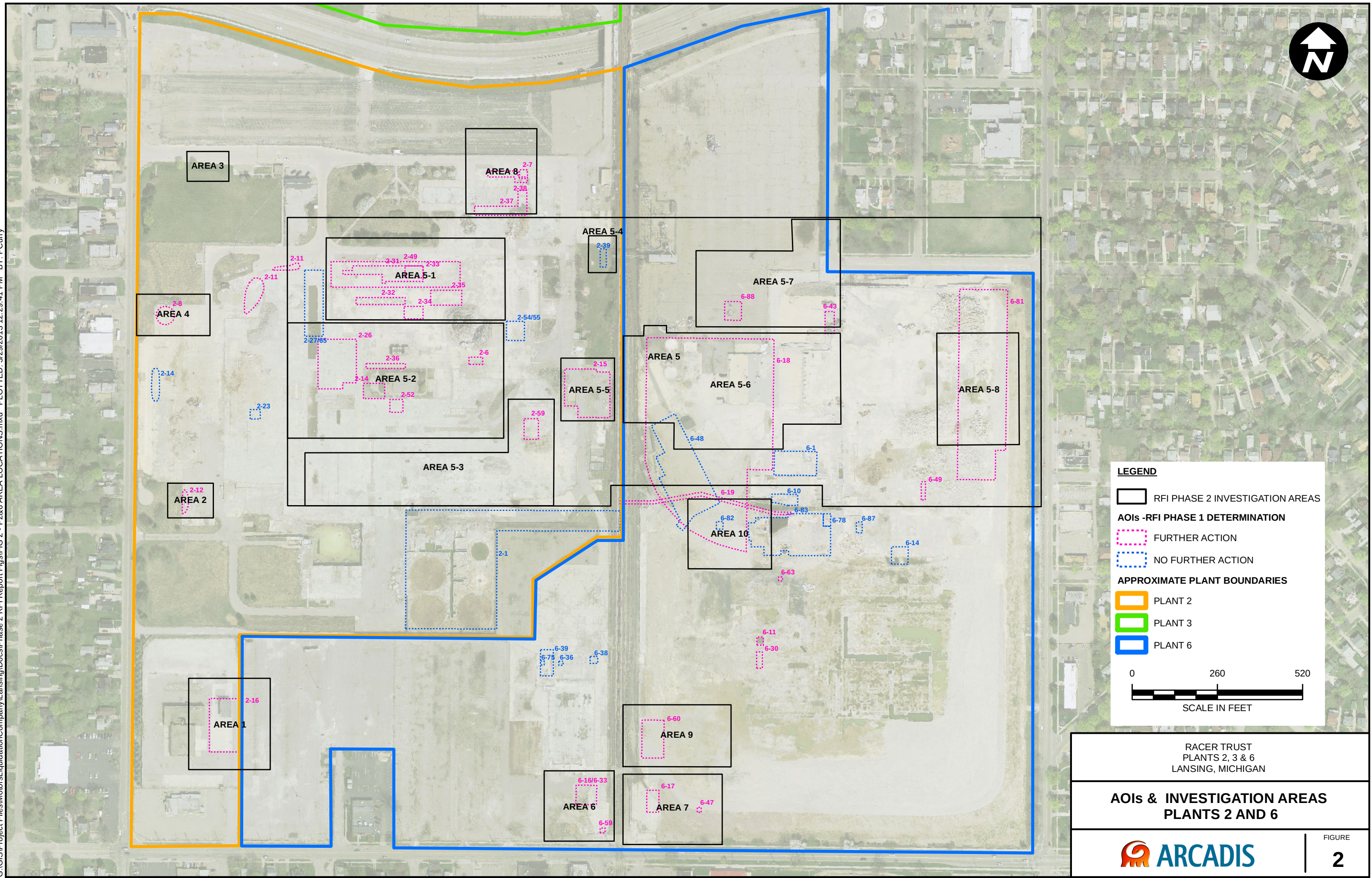
L+: Recovery in the associated laboratory sample (LCS) exceeds the upper control limit. Results may be biased high.

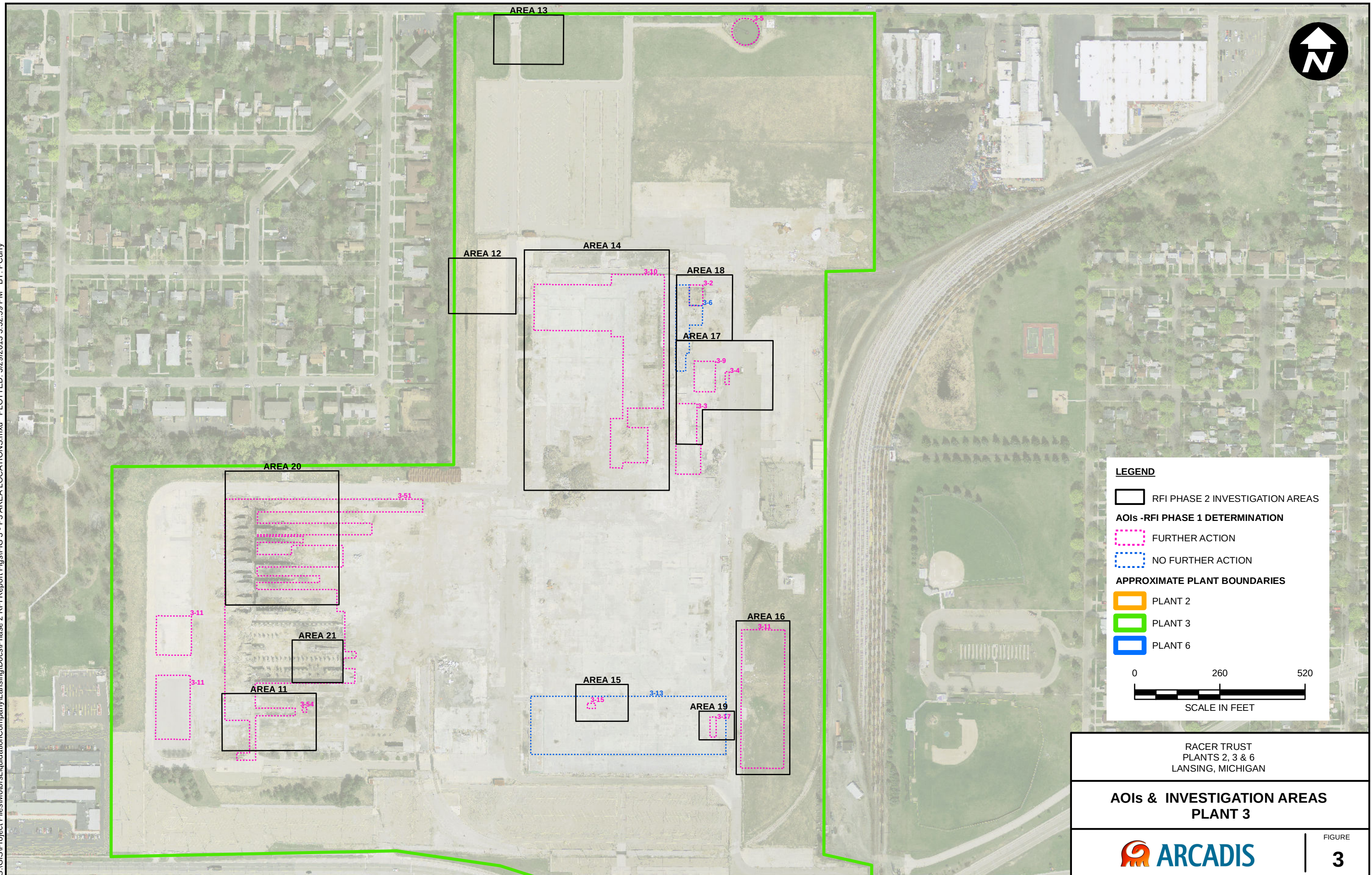
*: Screening level obtained from the USEPA's Vapor Intrusion Screening Level Calculator.

Figures









CITY: KNOXVILLE DIV: ENV DB: A. SMITH PIC: PM: TR: PROJECT NUMBER: COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Intl
G:\GIS\Project Files\MotorsLiquidationCompany\Lansing\Docs\Figs\Fig 4 - Bedrock Topo.mxd PLOTTED: 3/29/2013 12:35:31 PM BY: PCurry

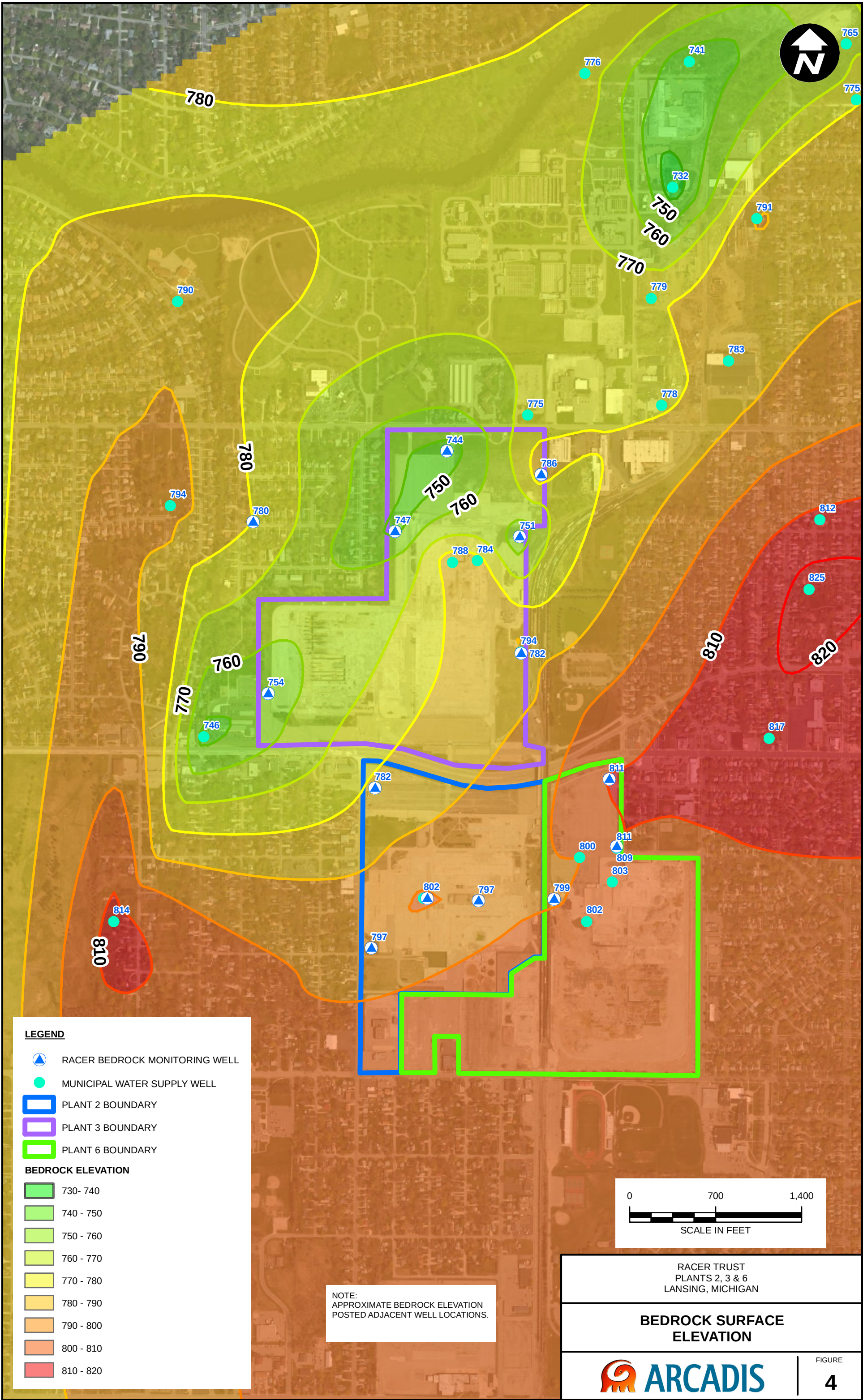
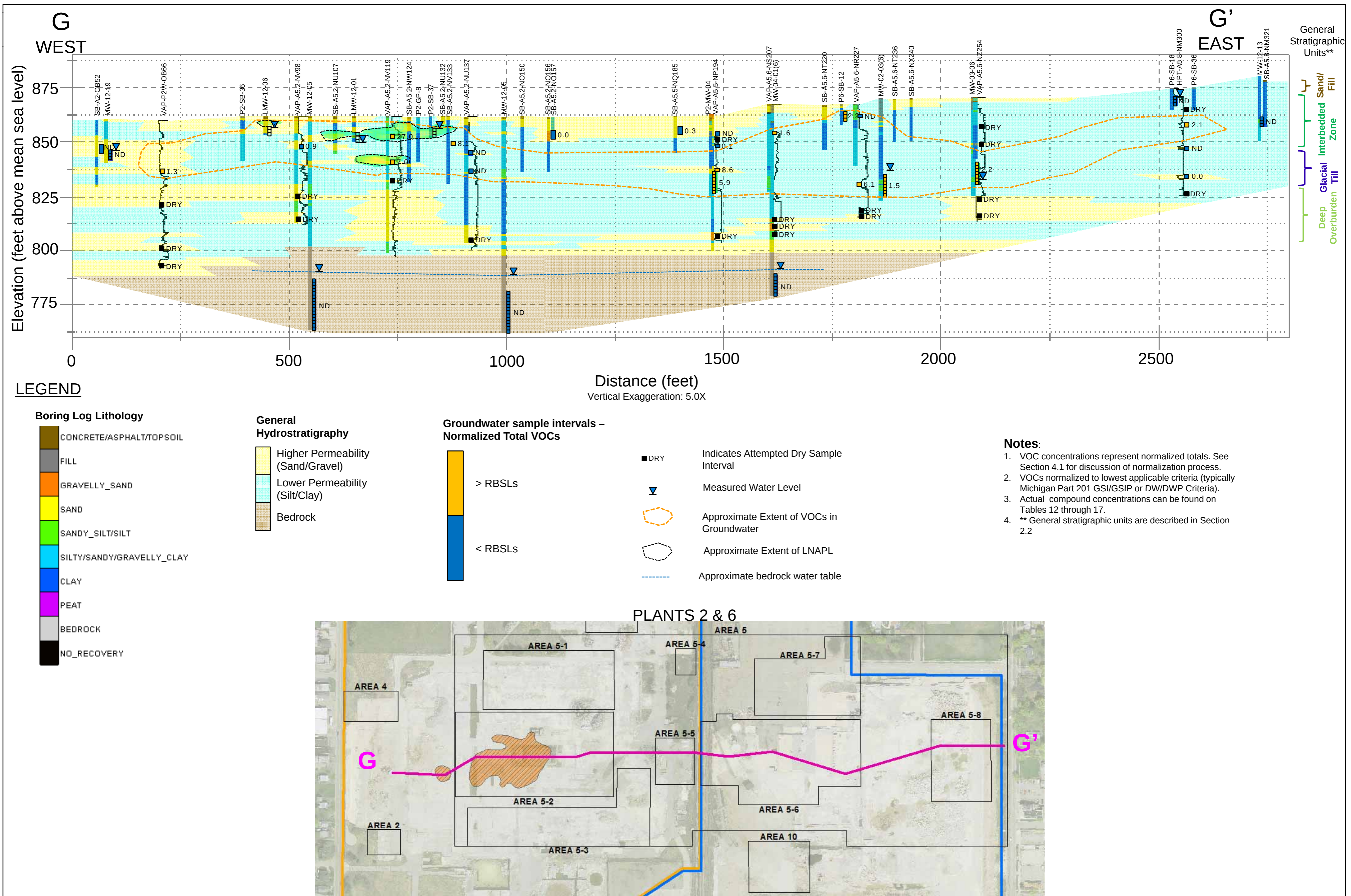
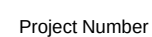
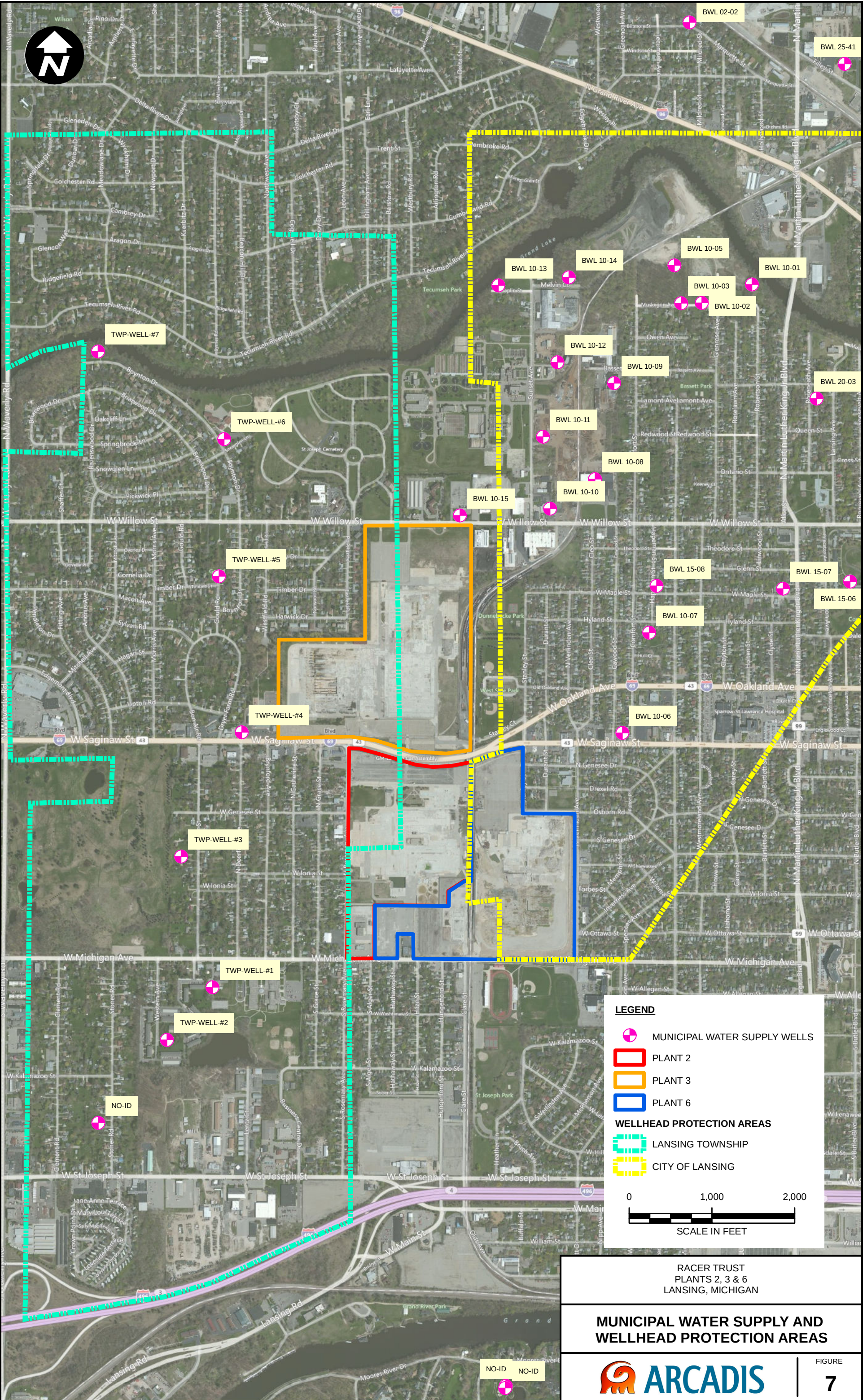


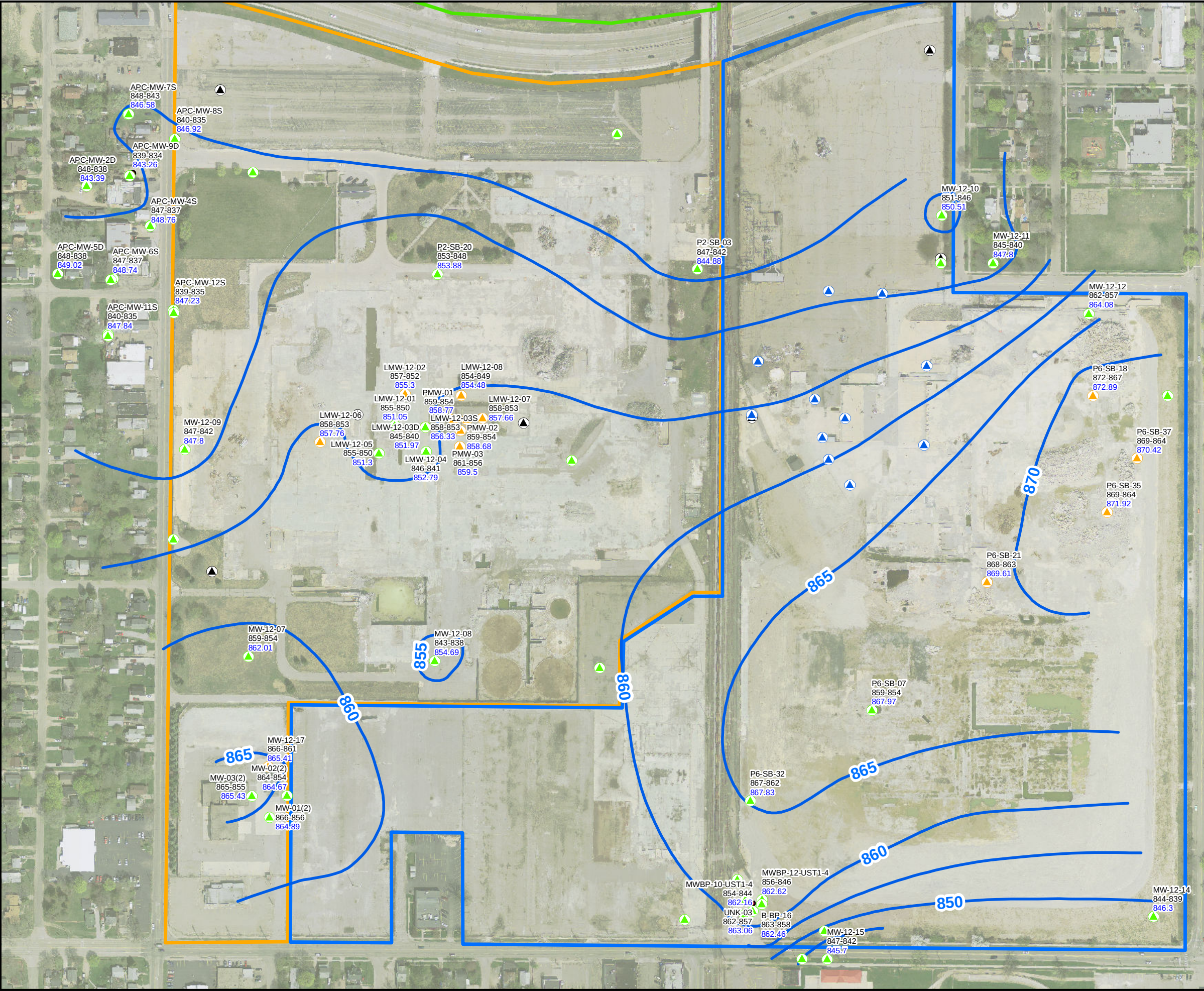
Figure 5
Cross-Section G-G'
RACER Trust
Plants 2, 3 & 6, Lansing, Michigan







CITY: KNOXVILLE DIV: ENV DB: A. SMITH PM: TM: TR: PROJECT NUMBER: COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Intl
G:\GIS\Project Files\MotorsLiquidationCompany\Lansing\Docs\Phase 2 RFI Report Figs\FIG 8 - Perched GW PLANTS 2&6.mxd PLOTTED: 3/29/2013 12:45:21 PM BY: PCurry



LEGEND

MONITORING WELL / STRATIGRAPHIC UNIT

- SHALLOW SAND/FILL
- INTERBEDDED ZONE
- GLACIAL TILL
- BEDROCK WELL

GROUNDWATER ELEVATION CONTOUR (FT MSL)

NOTE:

- WELL LABELING:
WELL NAME
WELL SCREEN (FT MSL)
GROUNDWATER ELEVATION 12-17-12 (FT MSL)
- LNAPL MONITORING WELLS CORRECTED FOR PRESENCE OF LNAPL
- GROUNDWATER CONTOURS ONLY CONSIDER MONITORING WELLS INSTALLED <= 25 FEET BELOW GRADE



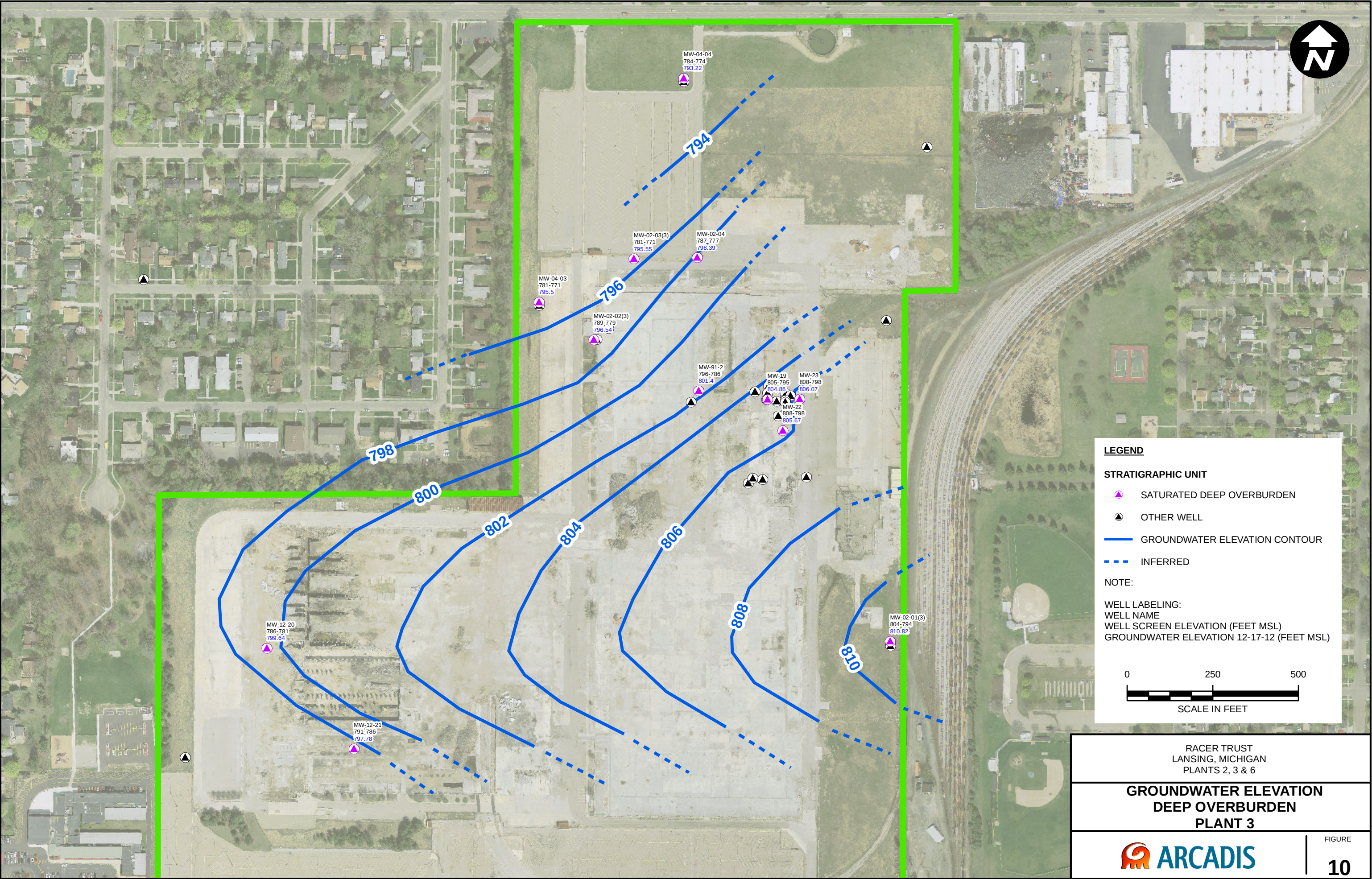
RACER TRUST
LANSING, MICHIGAN
PLANTS 2, 3 & 6

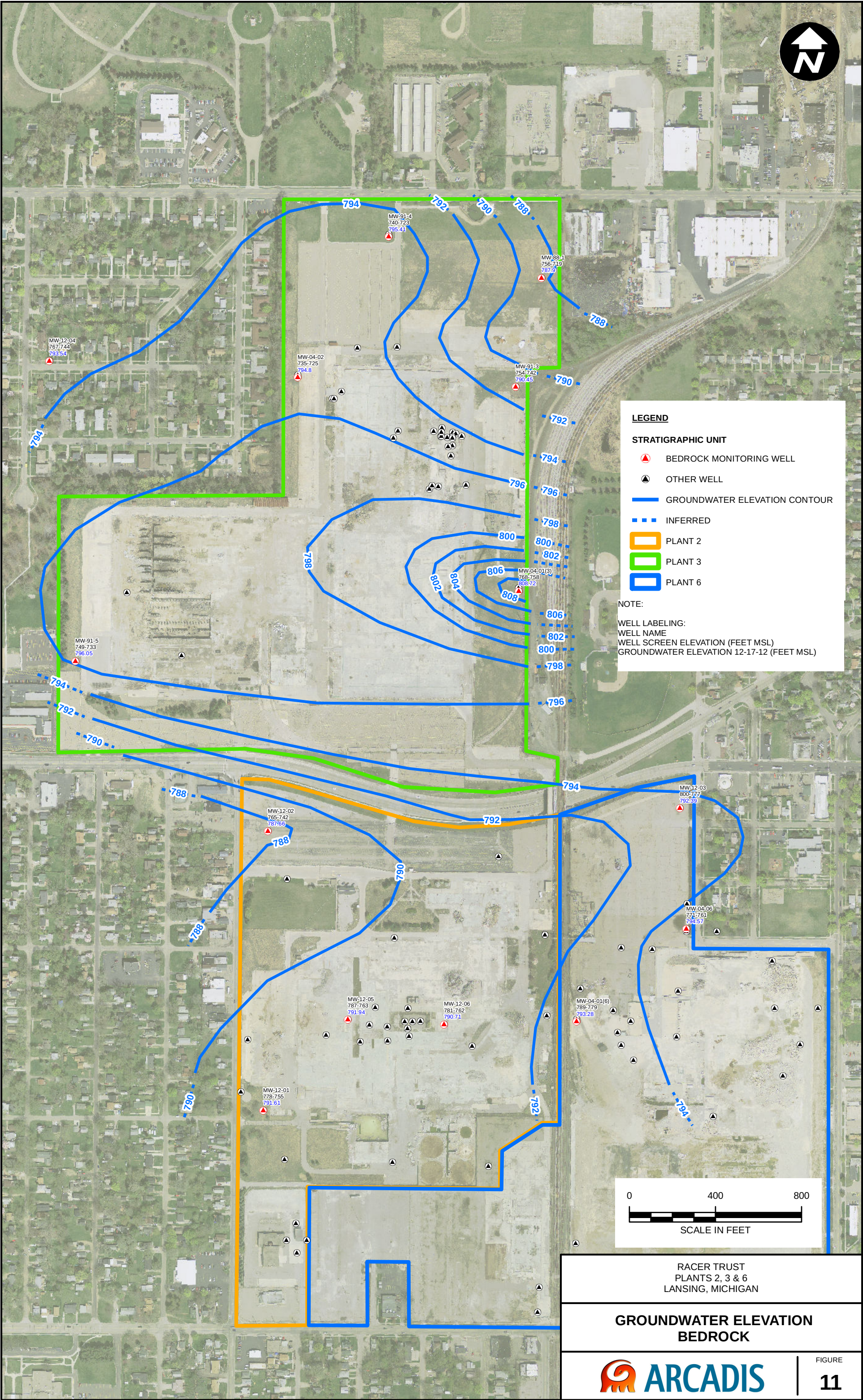
**GROUNDWATER ELEVATION
PERCHED WATER - 0 TO 25 FT BGS
PLANTS 2 & 6**

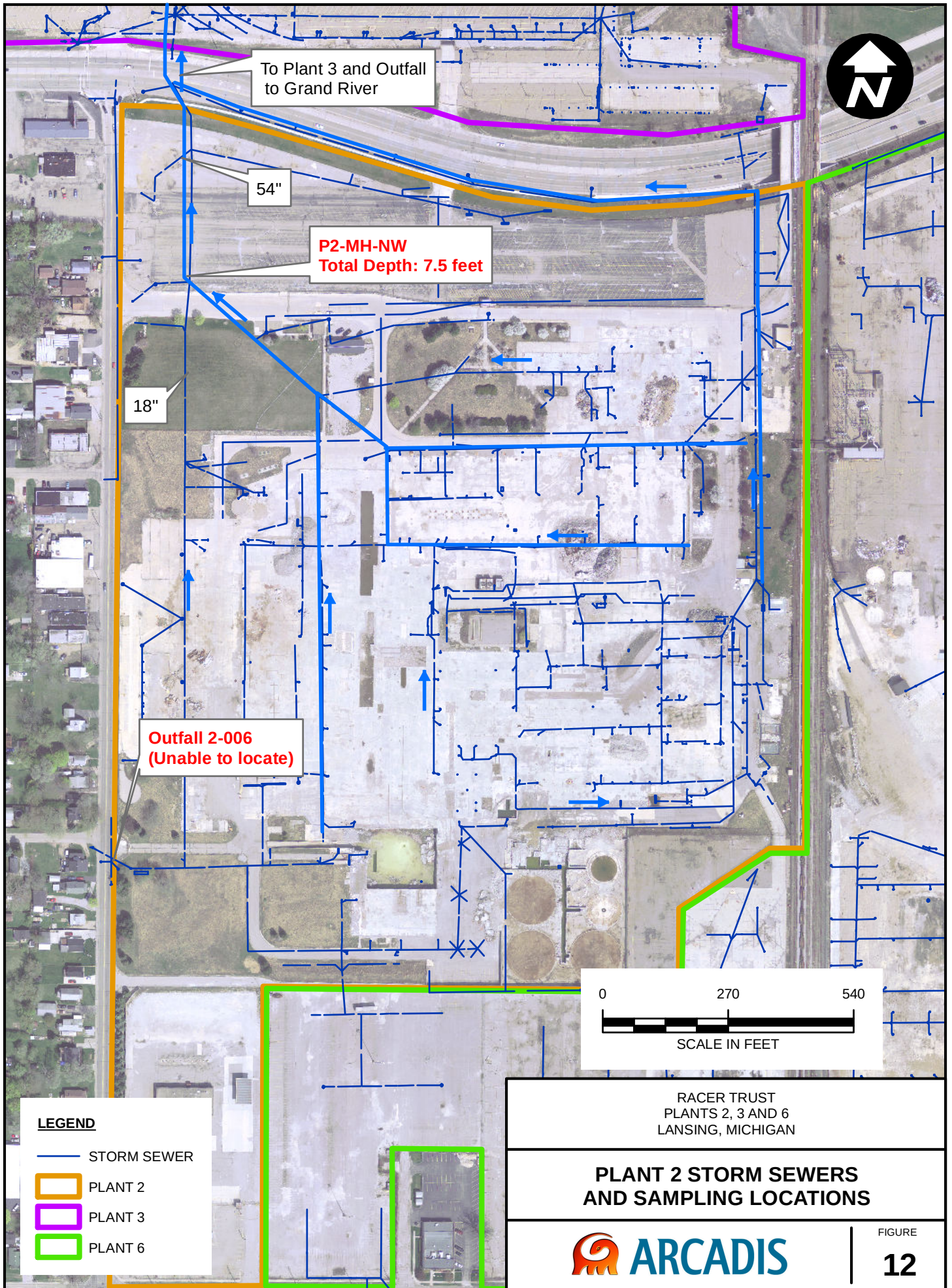


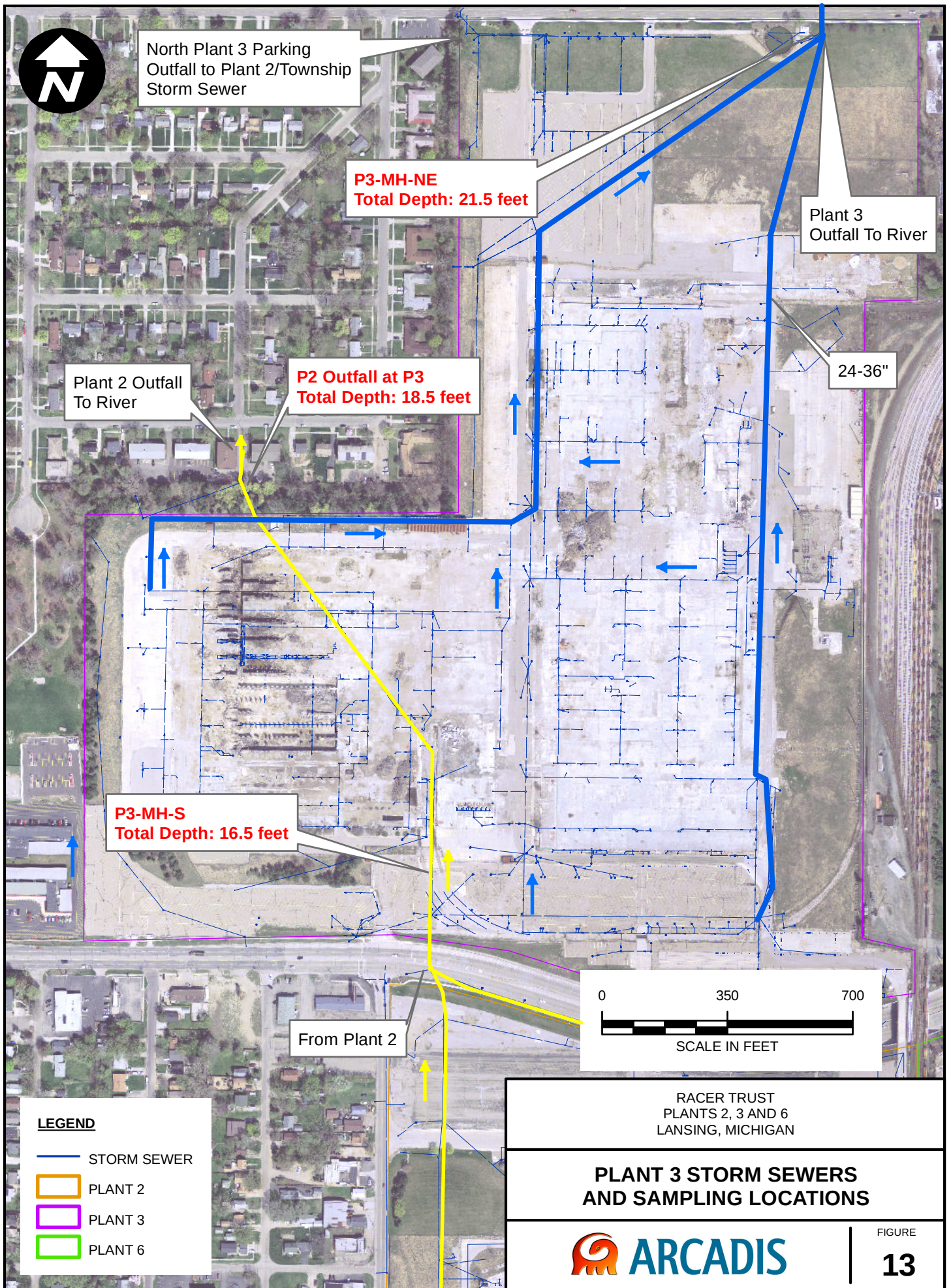
FIGURE

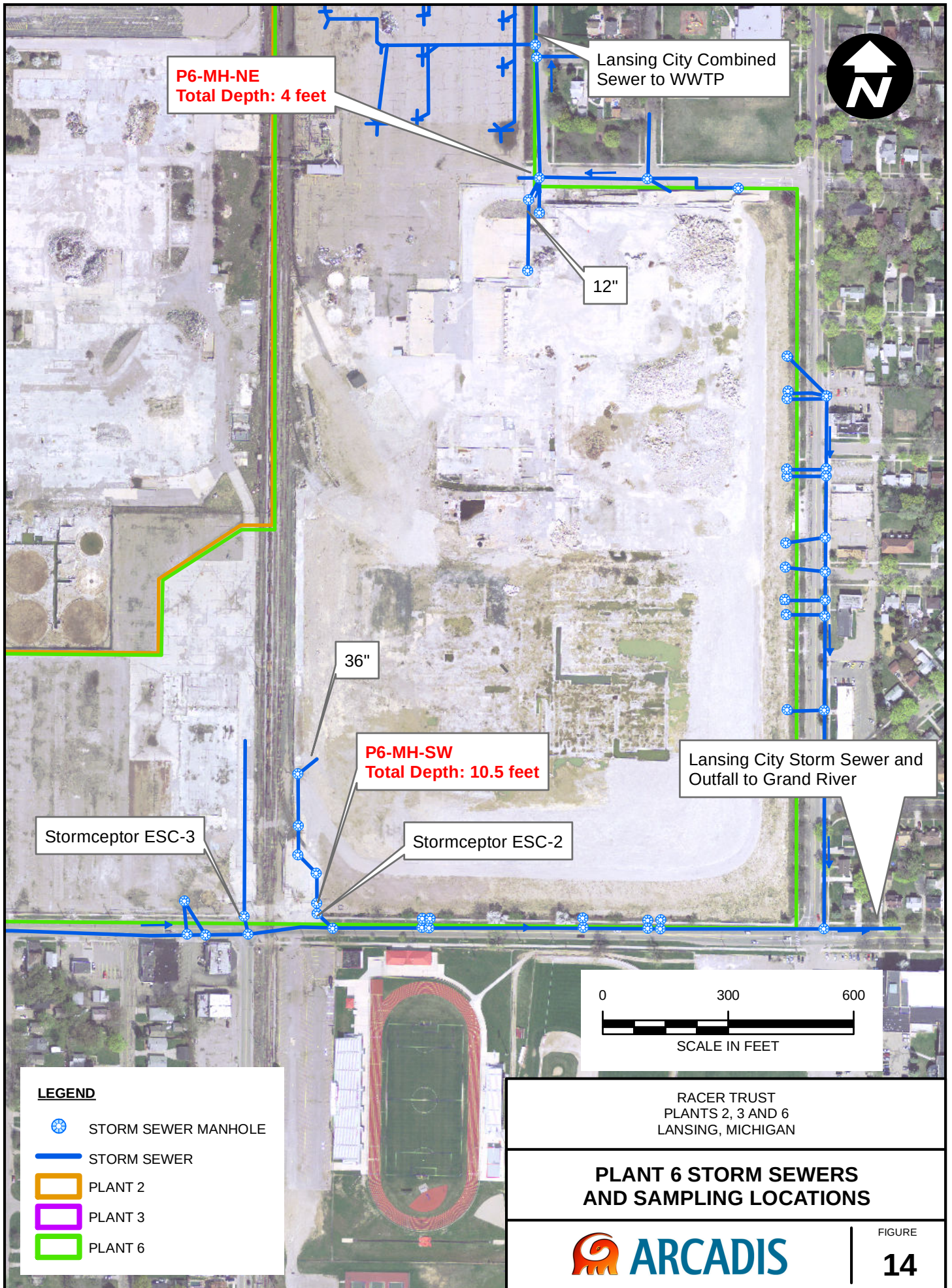




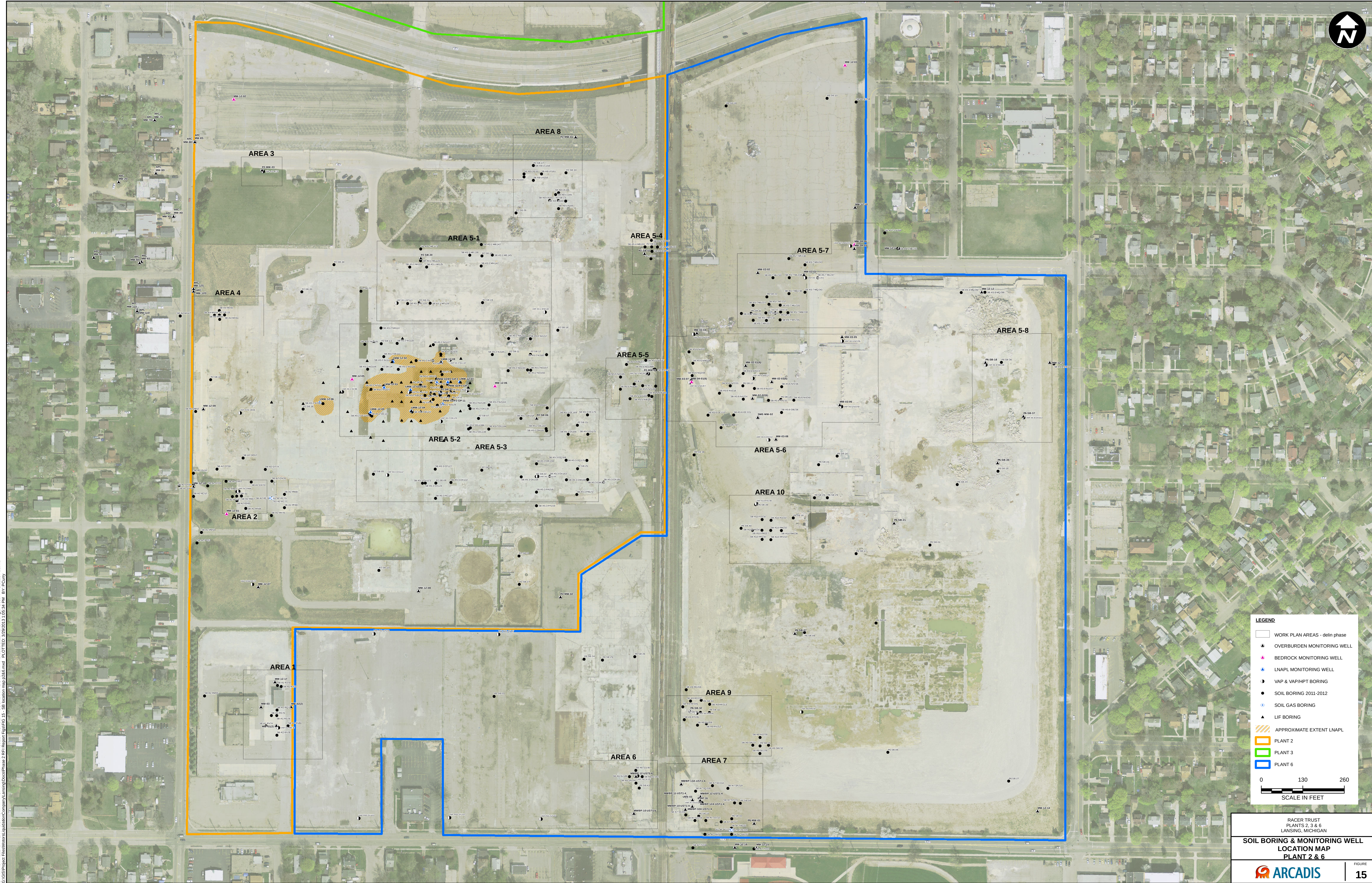








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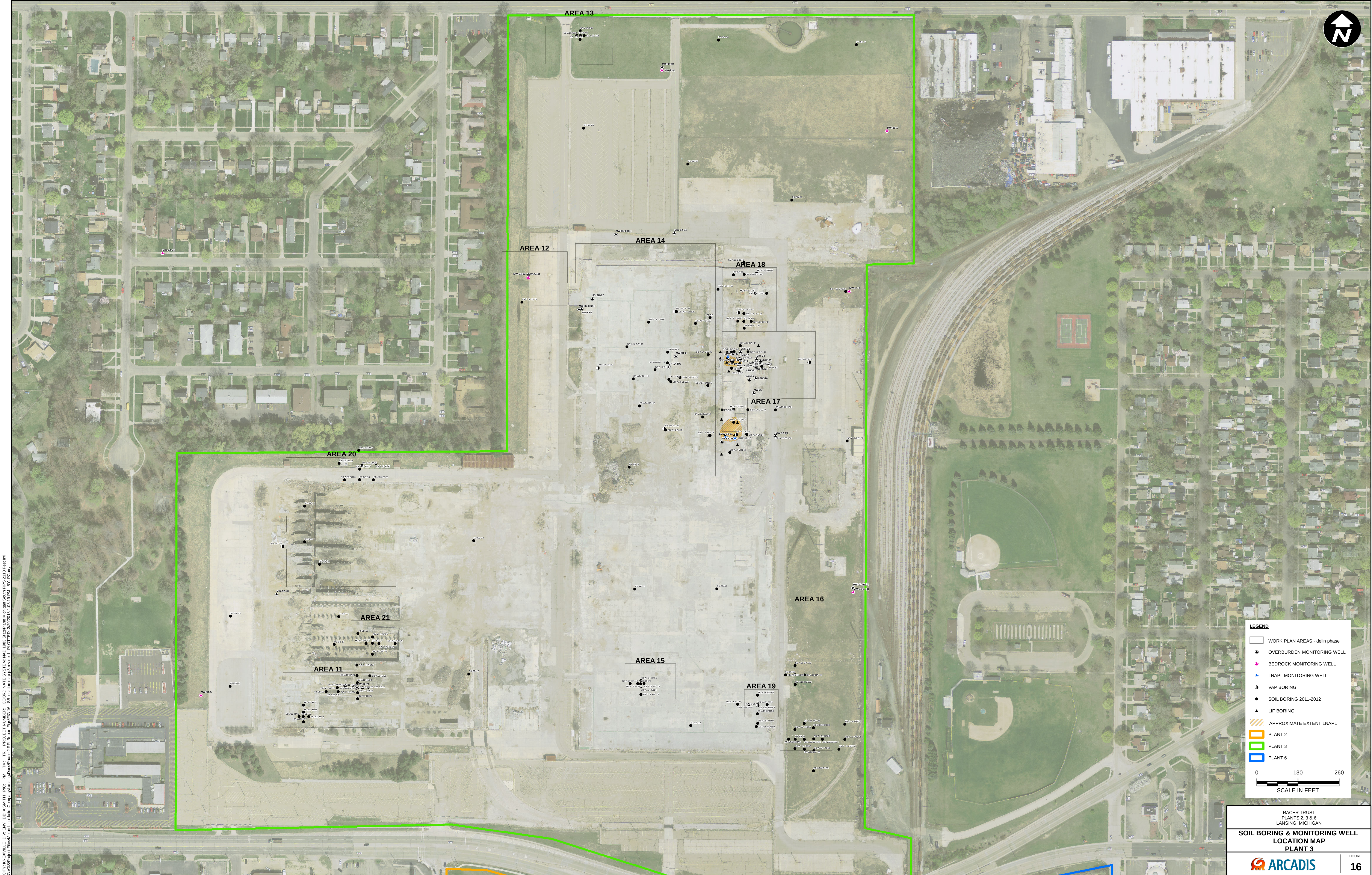


LEGEND

- WORK PLAN AREAS - deline phase
- OVERBURDEN MONITORING WELL
- BEDROCK MONITORING WELL
- LNAPL MONITORING WELL
- VAP & VAP/HPT BORING
- SOIL BORING 2011-2012
- SOIL GAS BORING
- LIF BORING
- APPROXIMATE EXTENT LNAPL
- PLANT 2
- PLANT 3
- PLANT 6

0 130 260
SCALE IN FEET

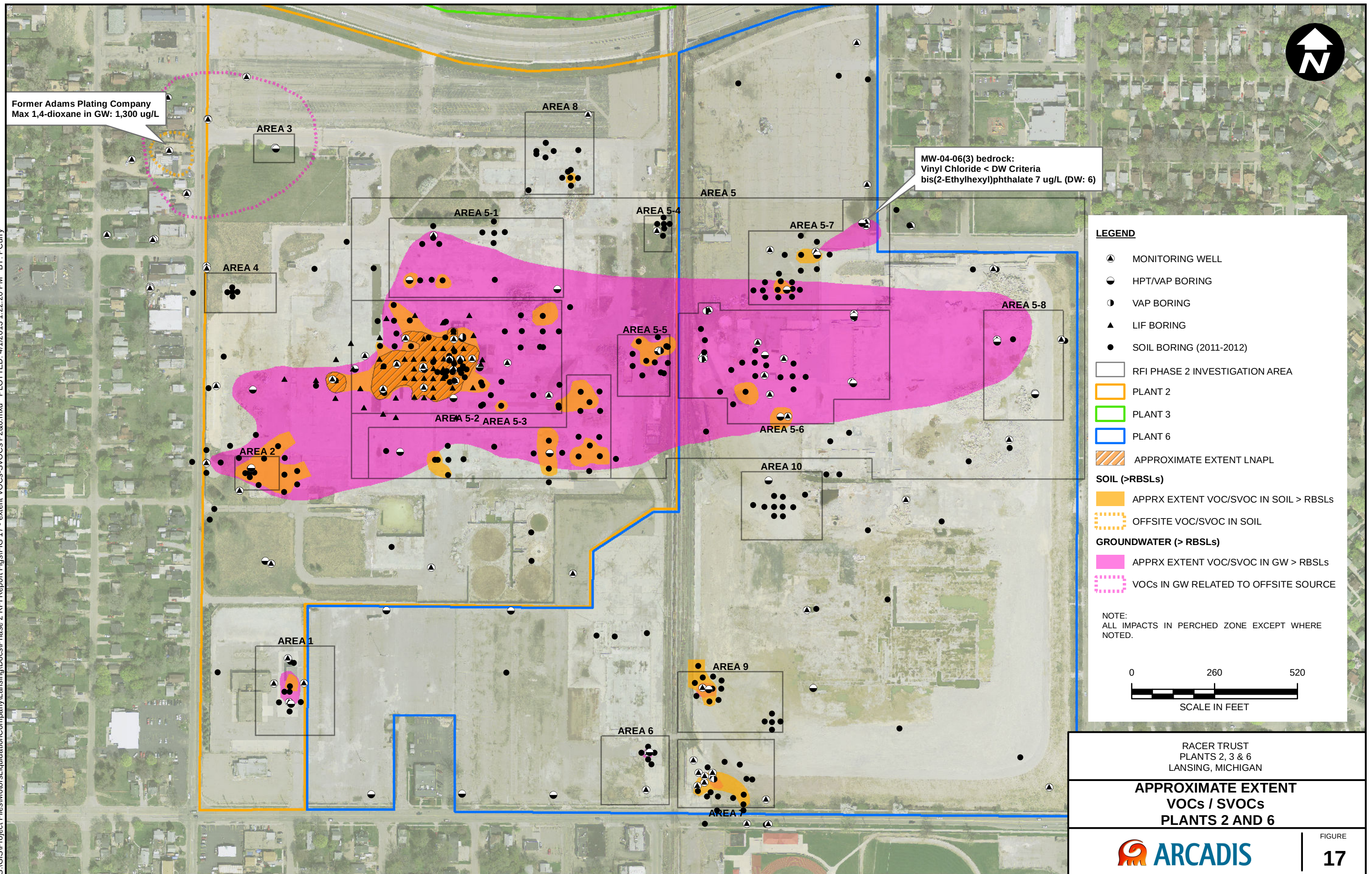
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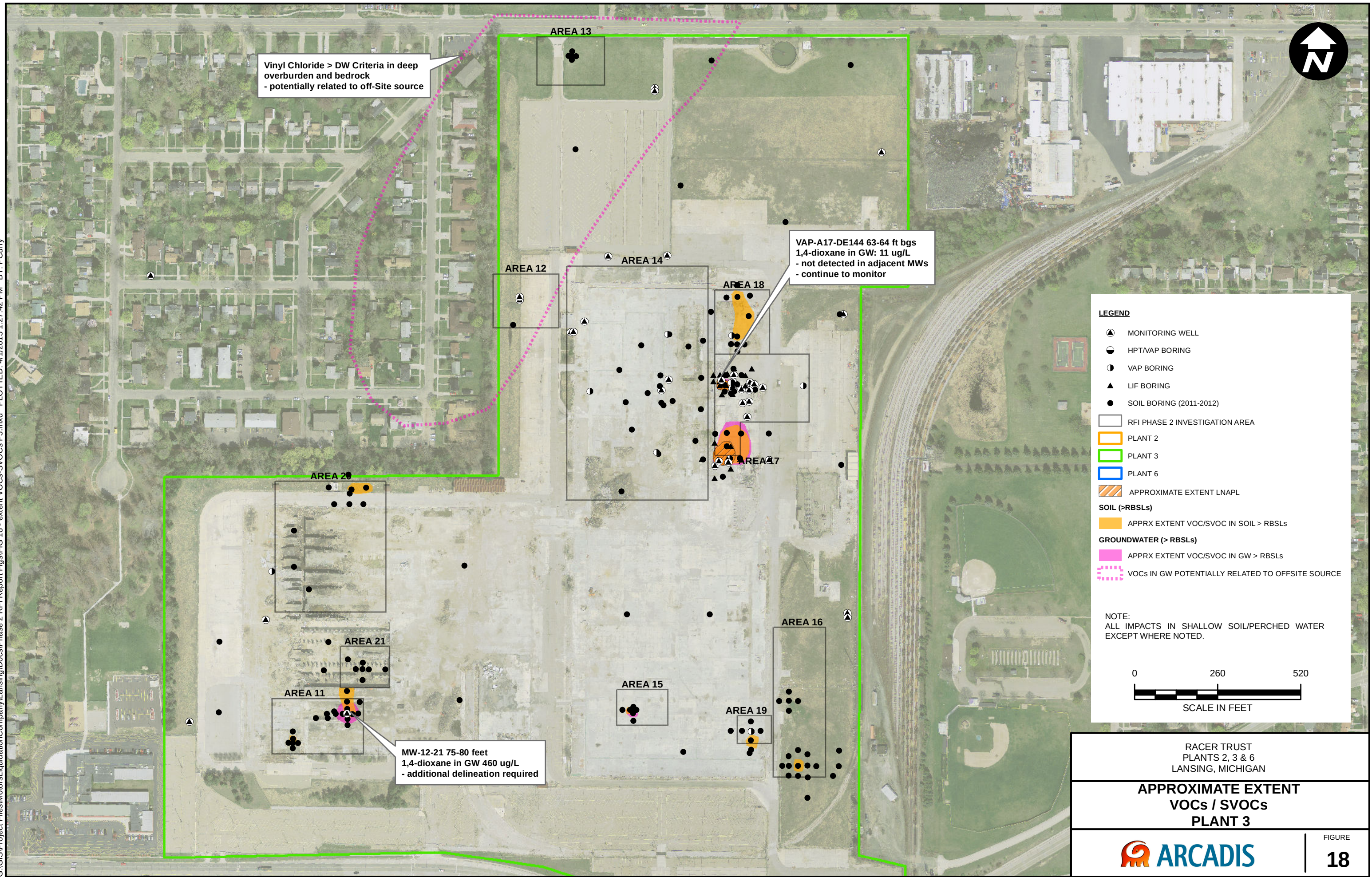


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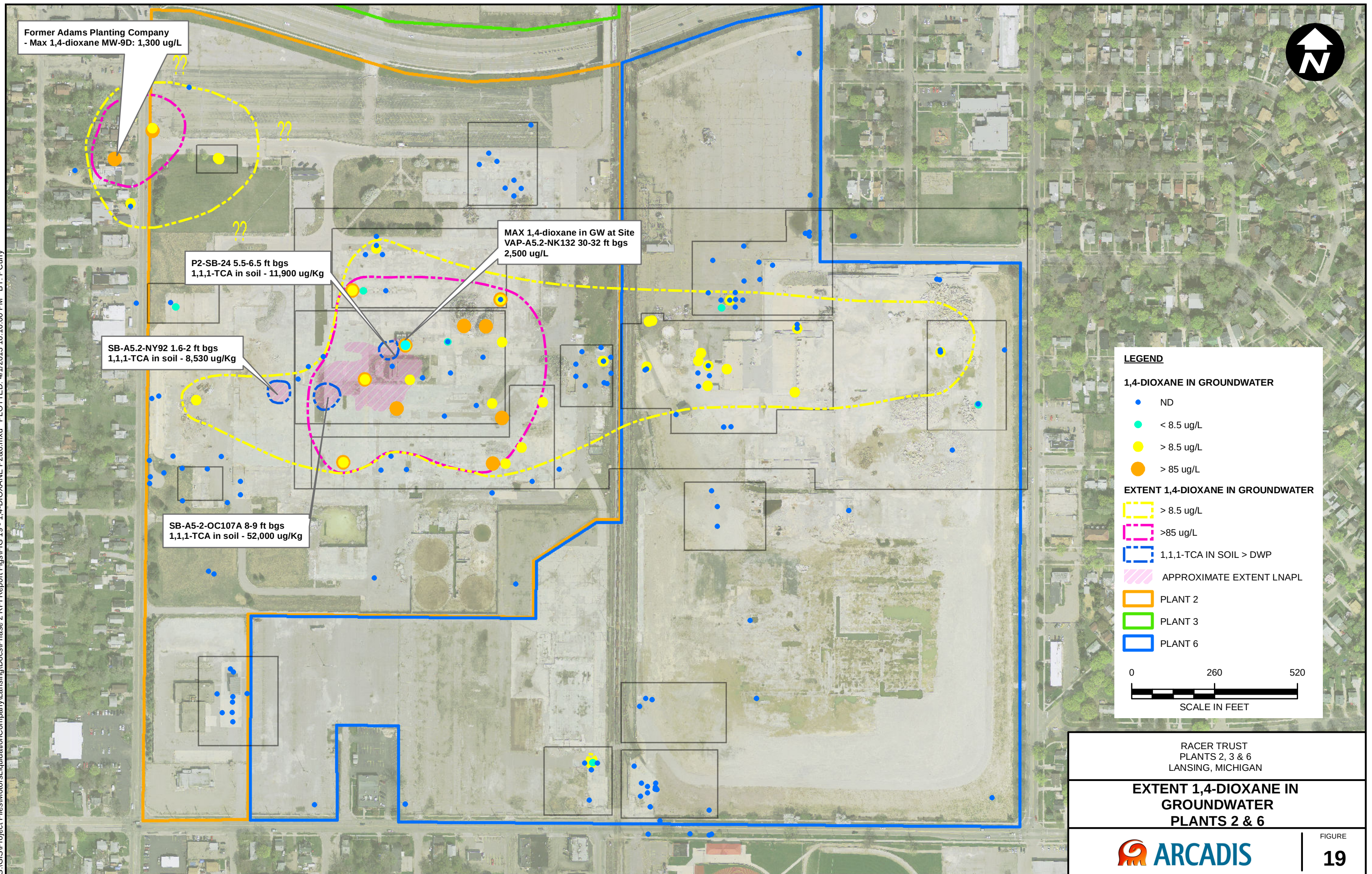
- WORK PLAN AREAS - deline phase
- OVERBURDEN MONITORING WELL
- BEDROCK MONITORING WELL
- LNAPL MONITORING WELL
- VAP BORING
- SOIL BORING 2011-2012
- LIF BORING
- APPROXIMATE EXTENT LNAPL
- PLANT 2
- PLANT 3
- PLANT 6

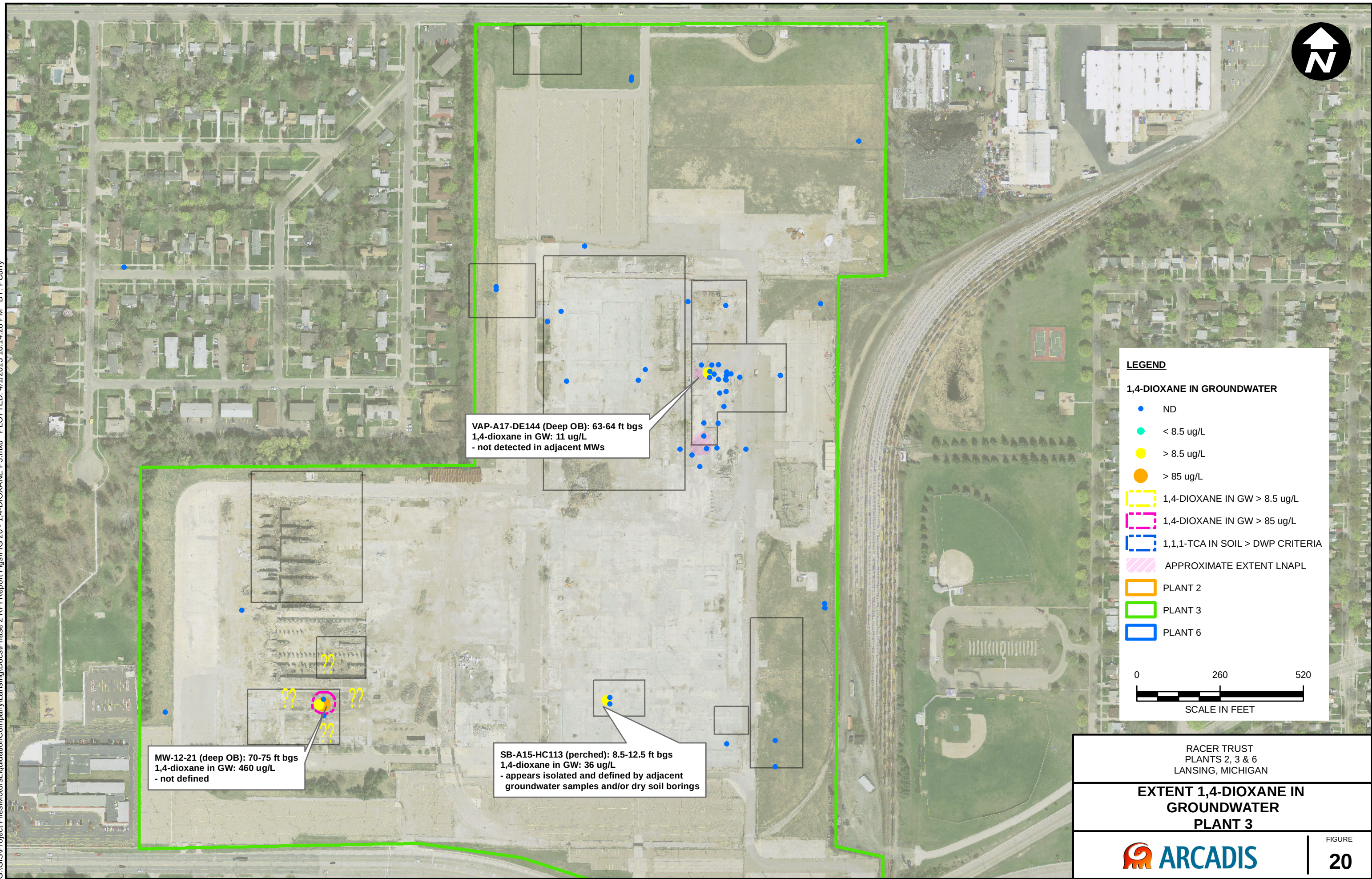
0 130 260
SCALE IN FEET

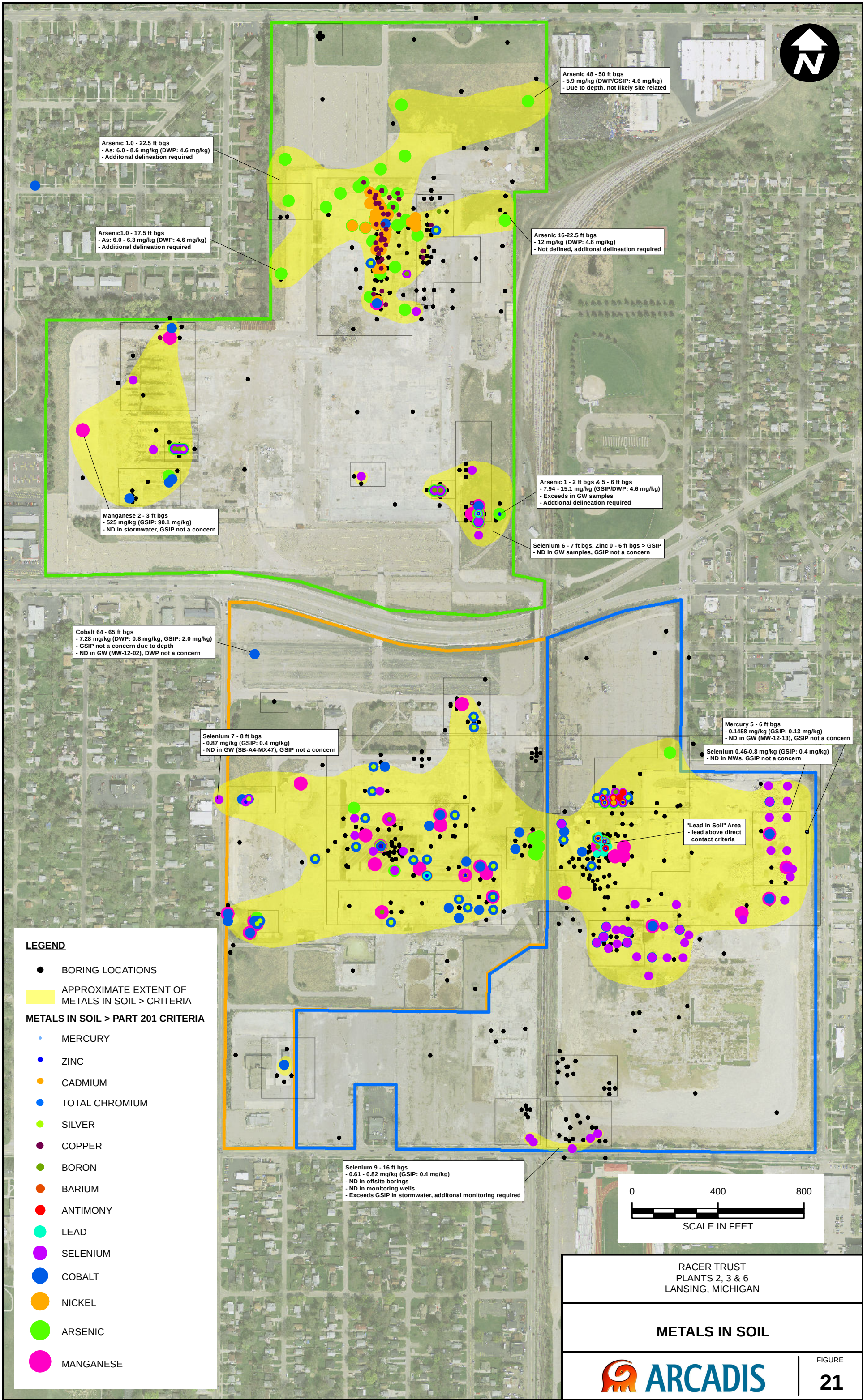


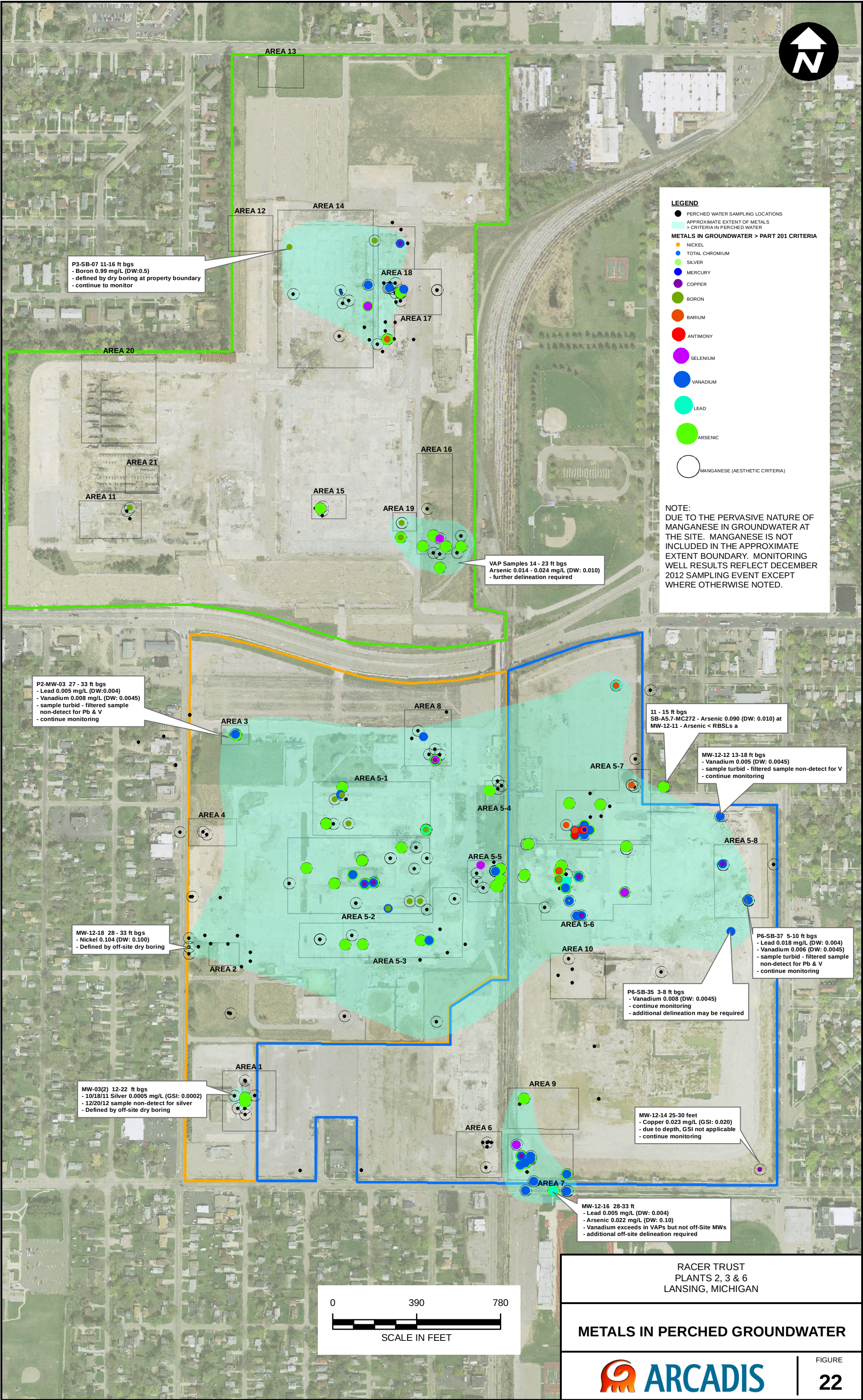


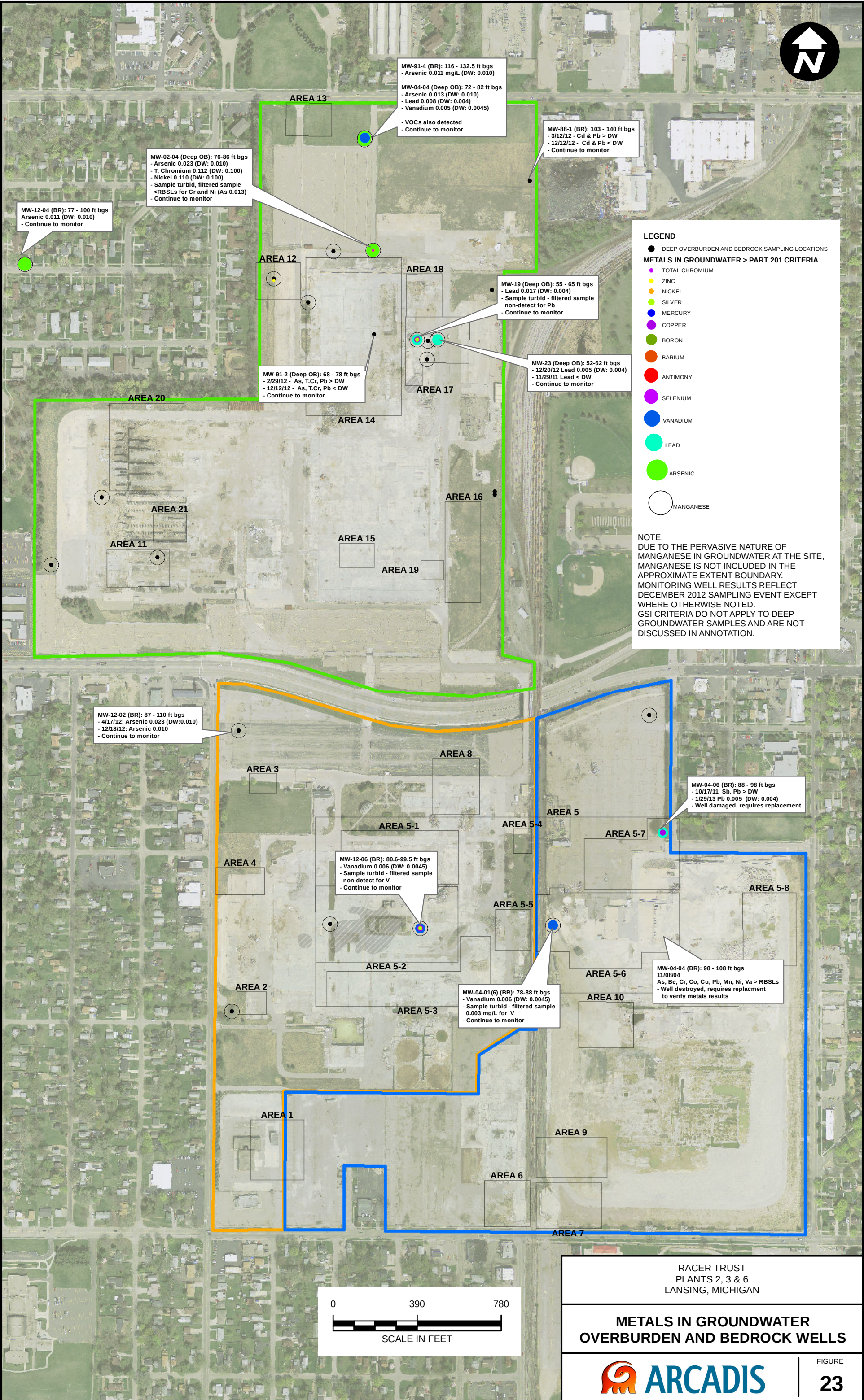
CITY: KNOXVILLE DIV: ENV DB: A. SMITH PIC: PM: TM: TR: PROJECT NUMBER: COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Intl
G:\GIS\Project Files\MotorsLiquidationCompany\ Lansing\Docs\Phase 2 RFI Report Figs\Fig 19 - 1,4-DIOXANE P2&6.mxd PLOTTED: 4/1/2013 10:10:00 PM BY: PCurry



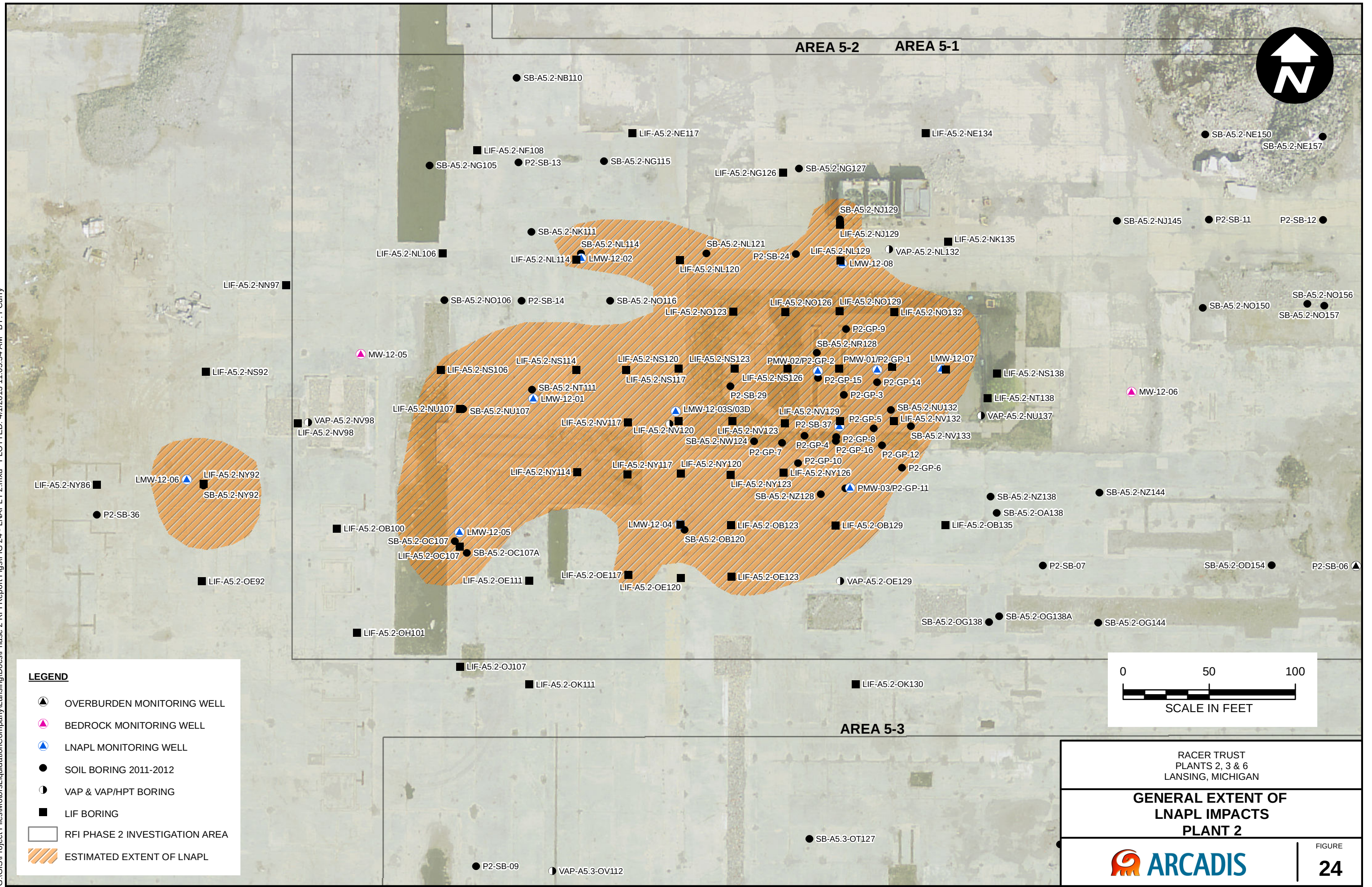




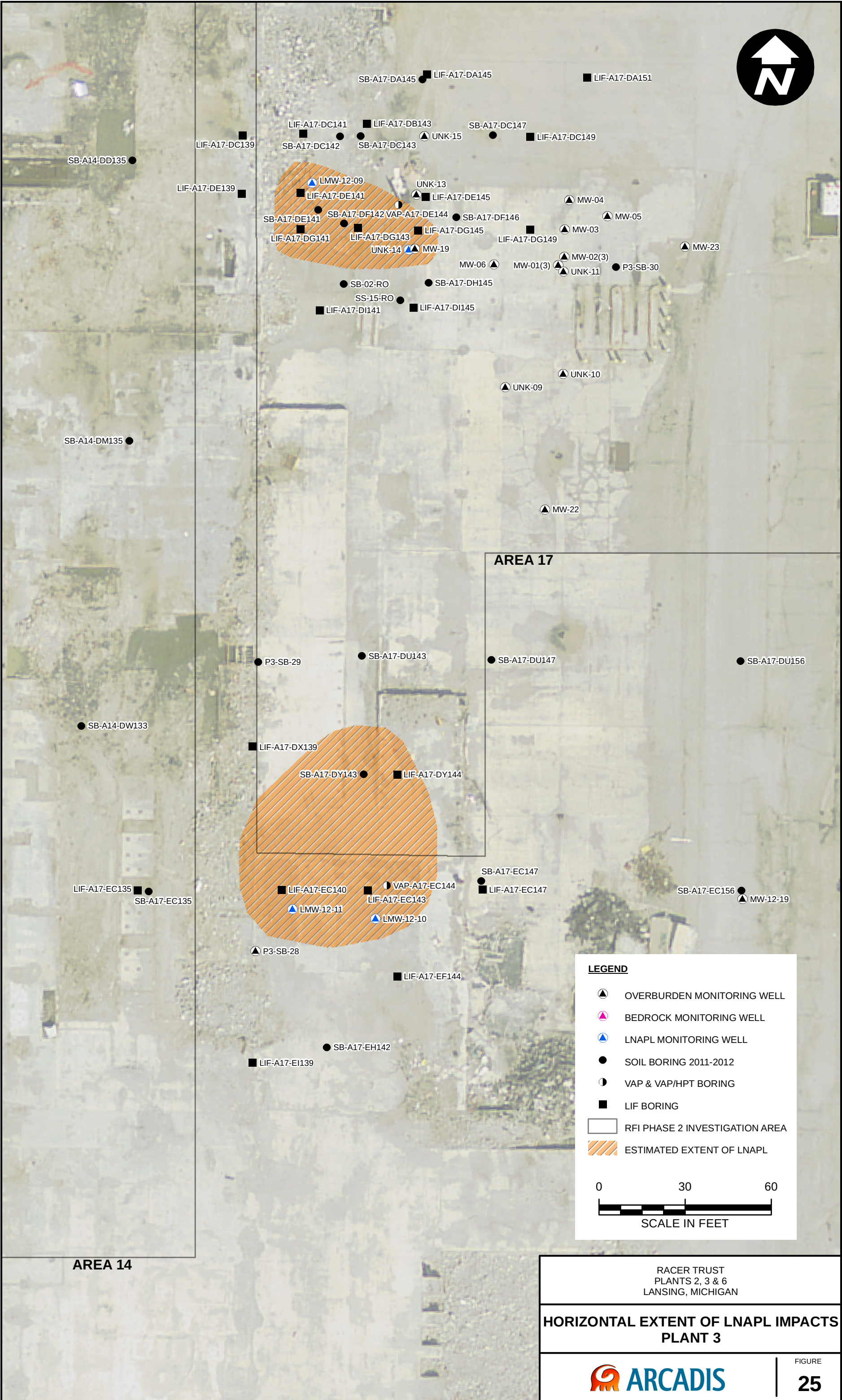




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G:\GIS\Project Files\MotorsLiquidation\Company\ Lansing\Docs\Phase 2 RFI Report Figs\FIG 24 - LNAPL P2.mxd PLOTTED: 4/1/2013 11:05:54 AM BY: PCurry



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Hexavalent Chromium
- Max concentration in Soil (SB-A14-DF122 6-7'):
3.9 mg/Kg (GSIP: 3.3)
- Max concentration in GW (CH-RO-14):
28.4 mg/L (DW: 0.10)

LEGEND

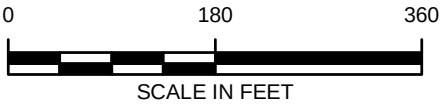
HEXAVALENT CHROMIUM IN GROUNDWATER

- CrVI > RBSLs
- CrVI ND

HEXAVALENT CHROMIUM IN SOIL

- CrVI > RBSLs
- CrVI ND

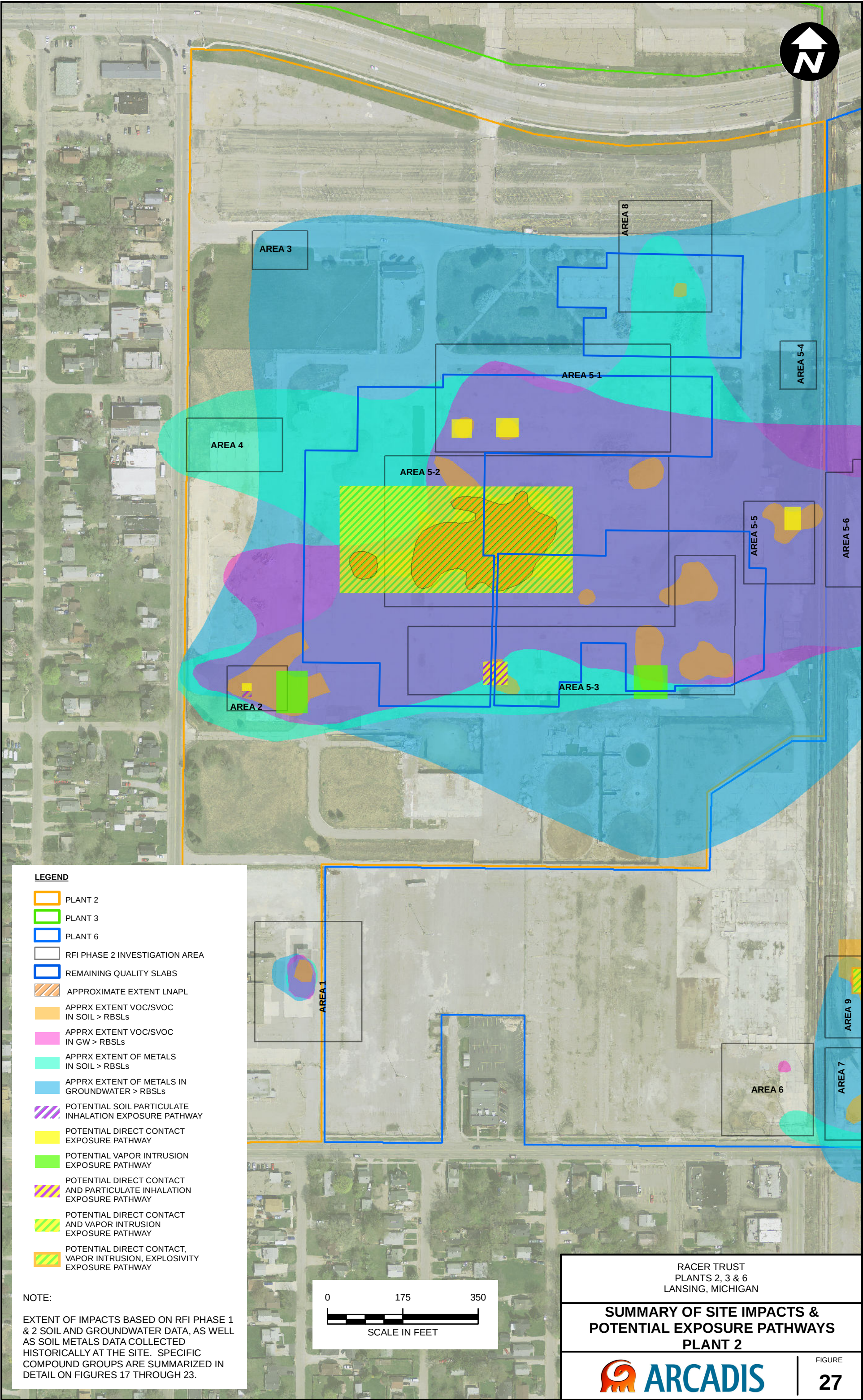
RFI PHASE 2 INVESTIGATION AREAS

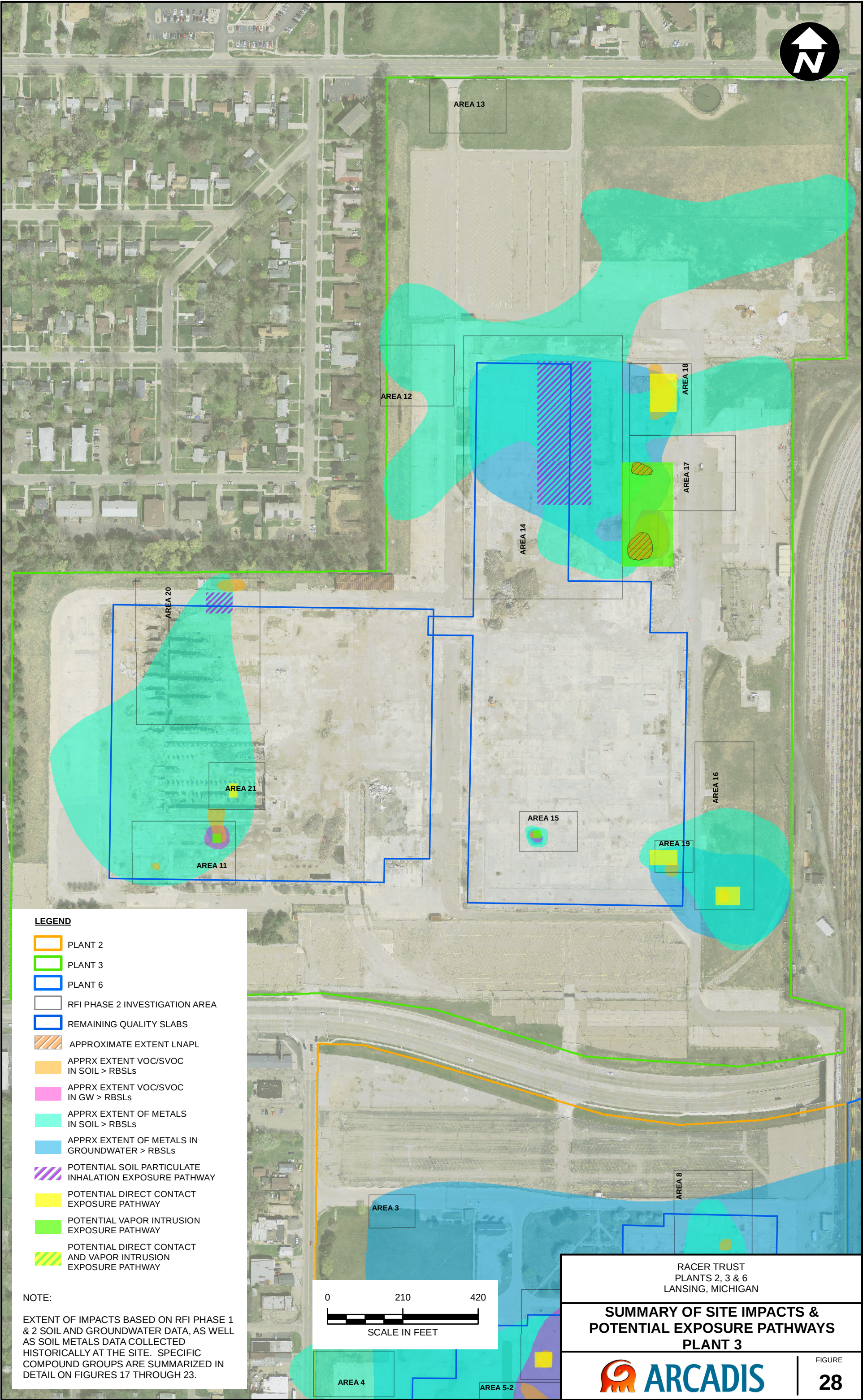


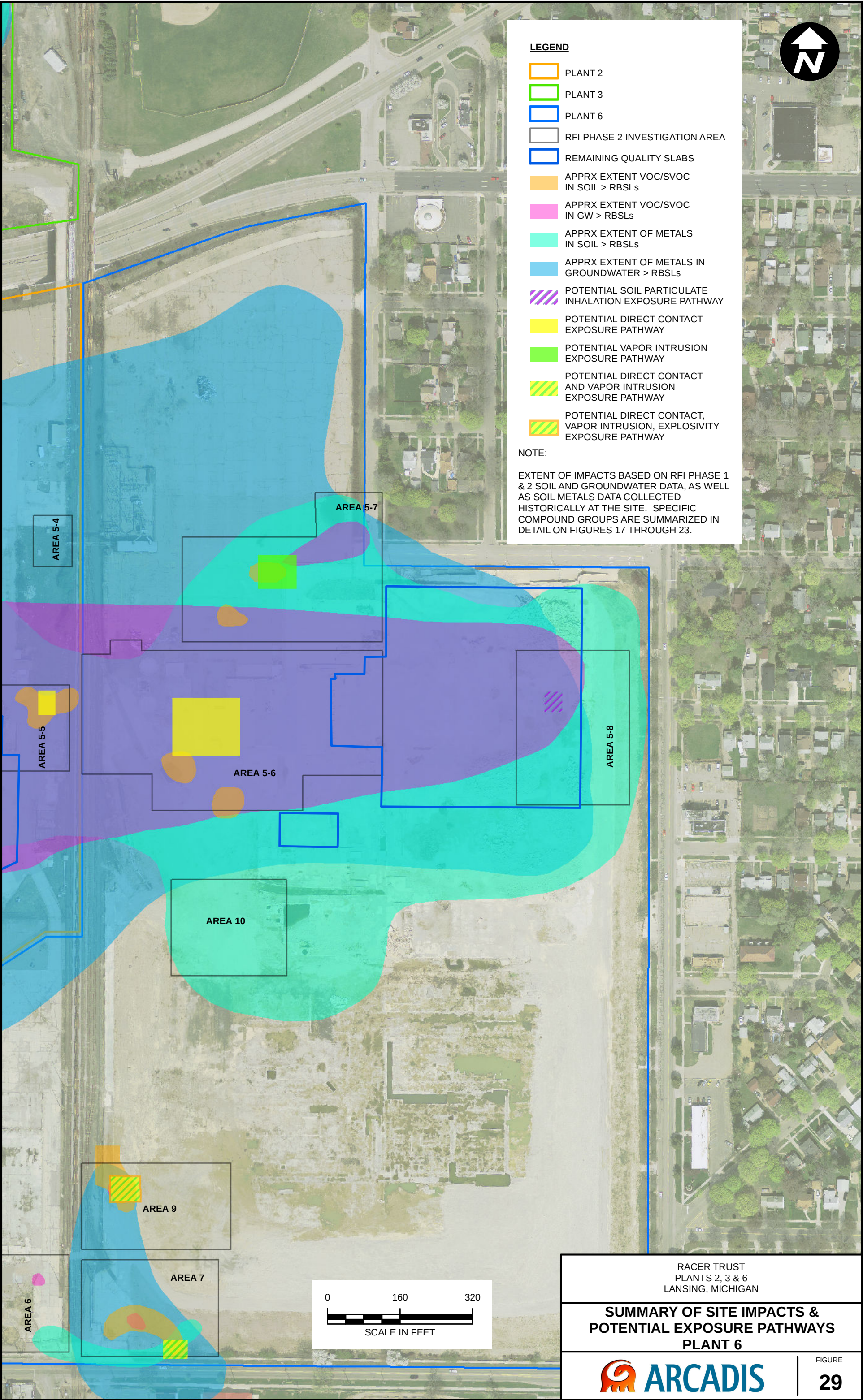
RACER TRUST
PLANTS 2, 3 & 6
LANSING, MICHIGAN

**HEXAVALENT CHROMIUM IN
SOIL AND GROUNDWATER
AREA 14, PLANT 3**

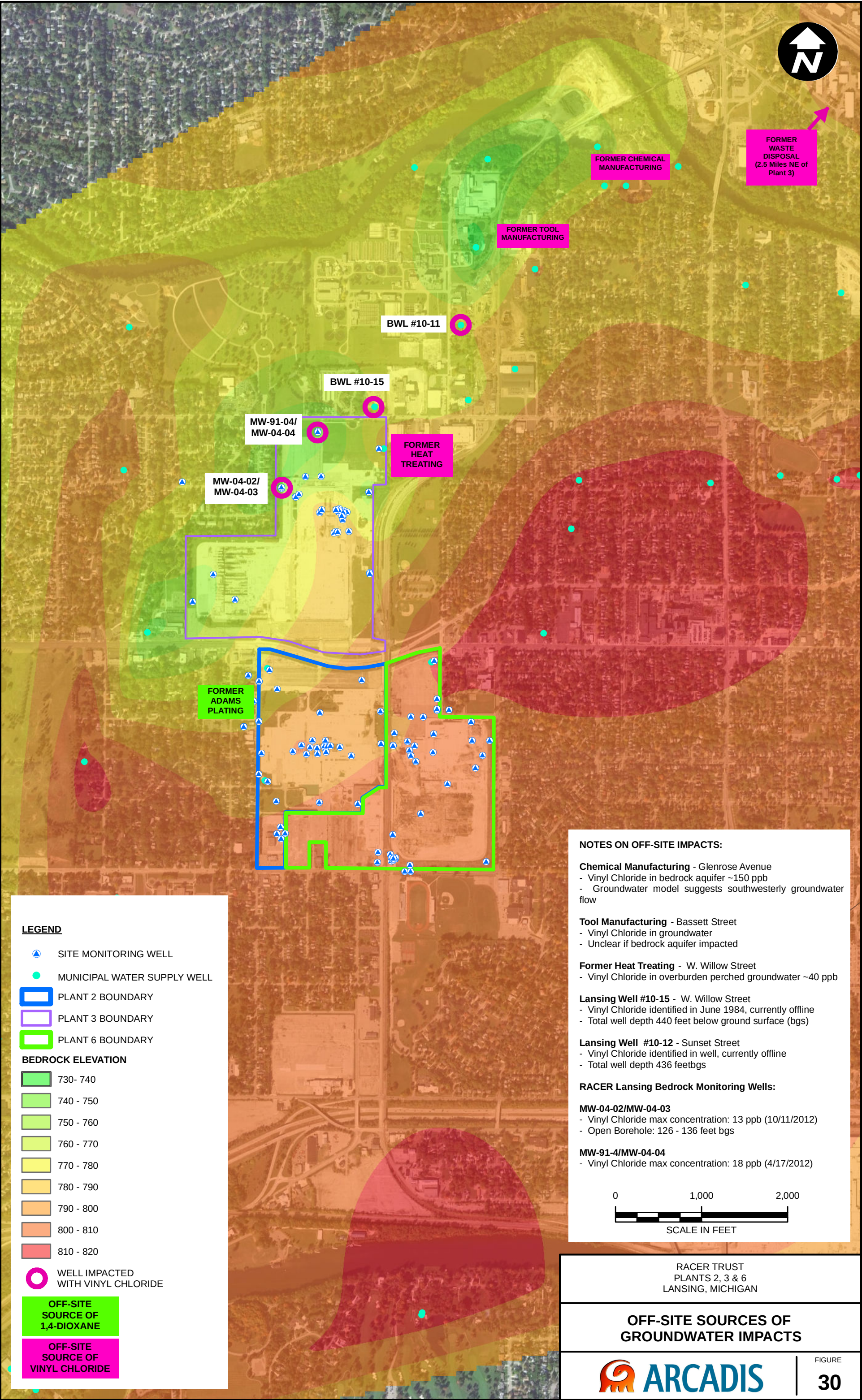








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Appendix A

RFI Phase I Investigation Results

APPENDIX A

PHASE 1 AREA OF INTERST (AOI) TABLES

The tables represented in Appendix A: Phase 1 AOI Tables provide a final list of AOIs as agreed upon between ARCADIS and the MDEQ and that was provided in the approved RFI Work Plan dated August 2011.

These tables provide information on the investigation activities completed during the Phase 1 investigation, (completed in the spring/summer of 2011) and a brief summary of the investigation results. The table also provides a determination on whether further action is required at a particular AOI based on the results. Finally, for those AOI where further investigation was required these tables identify what Area each particular AOI was associated with during the Phase 2 Investigation.

TABLE 1
RACER LANSING PLANTS 2, 3 and 6
RFI WORK PLAN PHASE 1 INVESTIGATION SUMMARY - PLANT 2

AOI Identification ⁽¹⁾	AOI Title	AOI Description/Components	AOI Location Building Number Column/Bay	AOI Approximate Depth Below Grade (ft)	Materials Handled	Phase I Investigation Associated Soil Boring ID	RFI Phase I Investigation Activities Summary	Phase I Investigation Determination	Associated Phase II Investigation Area (See Table 1: RFI Work Plan Phase 2 Summary Matrix for summary of Phase 2 Investigation Activities and determinations)
2-1	SWMU 1 - Waste Water Treatment System/Formers Coal Pile	Treats wastewater containing ELPO, oil, suspended solids, and heavy metal wastes. Prior to WWT, area was used to store coal.	South of Building 204	0	Waste Water/Coal	P2-SB-27 P2-SB-28 P2-MW-2	Completed 3 soil borings. No VOCs detected in soil samples. No SVOCs detected in soil samples. No metals detected in soil samples above criteria. Groundwater sample collected in nearby well above DW criteria for metals.	Further investigation activities required.	Area 5-3
2-6	SWMU 6 - Former Oily Waste Treatment System	Three 10,000-gallon concrete tanks, two treatment tanks, two gravity separators, chemical storage tanks	North of Building 244	<15	Oily Waste	P2-SB-11 P2-SB-12	Completed 2 soil borings. VOCs not analyzed (no history of VOCs based on historical data or past operations). Several SVOCs detected in soil samples below criteria. Metals detected in soil samples above DWP & GSI. PCBs detected in soil samples.	Further investigation activities required.	Area 5-2
2-7	SWMU 7 - Building 242 Former Drum Storage Area	Likely stored paint waste, spent solvents, and used oil. Stored PCB waste.	Inside the North End of Building 242	10	Waste Paints, Waste Solvents, Used Oil, PCB Wastes	P2-SB-30 P2-MW-1	Completed 1 soil boring. SVOCs detected in soil samples below criteria. VOCs detected in soil samples below criteria. No metals detected in soil samples above criteria.	Further investigation activities required.	Area 8
2-8	SWMU 8 - Former Outdoor Storage Area	Likely stored waste paint, spent solvent, and used oils on a concrete pad.	Northwest of Building 241	0	Waste Paints, Waste Solvents, Used Oil	P2-SB-33	Completed 1 soil boring. Several SVOCs detected in soil samples below criteria. No metals detected in soil samples above criteria.	Further investigation activities required	Area 4
2-11	SWMU 11 - Former Gondola Storage Area	Two paved outdoor areas; stored 1-to 3-cubic yard steel gondolas	Northwest of Building 206C	0	Oil Filters, Air Filters, Oil and Grease	P2-SB-35 P2-SB-34 P2-MW-3	Completed two soil borings. No VOCs in soil samples detected. No SVOCs in soil samples detected. Metals detected in soil samples above DWP & GSI. MW-3 groundwater sample above DW criteria for metals.	Further investigation activities required.	Area 3 and Area 5-1
2-12	SWMU 12 - Former Empty Container Storage Area	Empty 55-gallon drums generated from facility operations	Southwest of Building 241	0	Empty 55 Gallon Drums	P2-SB-31	Completed 1 soil boring. No VOCs in soil samples detected. SVOCs detected in soil samples below criteria. Metals detected in soil samples above DWP & GSI.	Further investigation activities required.	Area 2
2-14	SWMU 14 - Former Scrap Metal Storage Areas	Stored non-hazardous scrap metal (machining chips, turnings, trimmings, and scrap parts)	West of Building 241 and East of Building 206	0	Scrap Metal	P2-SB-32 P2-SB-29	Complete two soil borings. SVOCs detected in soil samples above GSI criteria. Metals detected in soil samples above DWP and/or GSI criteria.	Further investigation activities required.	Area 5-2
2-15	AOC 1 - Building 225 UST Farm	Eight former 30,000-gallon tanks. Removed 1989. Closure report submitted 10/1/96.	South of Building 225	<15	Used Oil, Quench Oil, Cutting Oil and Lube Oil	B-2 B-7 P2-MW-4	Completed 3 soil borings and installed one monitoring well. SVOCs detected in soil samples above GSI and DC criteria. Metals detected in soil samples above DWP, GSI and DC criteria. VOCs detected in soil samples above DWP.	Further investigation activities required.	Area 5-5
2-16	AOC 3 - Building 250 UST Farm	2-20,000 gallon tanks that stored gasoline and diesel East of Building 250. 1-1,500 gallon tank that stored used oil located Southeast of Building 250. 1-12,000 gallon tank that stored heating oil located West of Building 250. All UST's removed in 1990 and 1991. Closure report submitted on 10/01/1996. Restrictive Covenant filed with Register of Deeds in 2003.	East of Building 250	<15	Gasoline, Diesel, and Used Oil		Collected groundwater sample from existing monitoring wells. Samples found to be above GSI criteria for metals.	Further investigation activates required.	Area 1
ID 2-23	Acid House and Two Storage Tanks of Unknown Operations	Two storage tanks with unknown contents were located immediately south of acid house.	West of Building 206, North of Basketball Court	15	Unknown (Likely Acids)	P2-SB-36	Completed 1 soil boring. No VOCs in soil samples detected. No SVOCs in soil samples detected. No metals detected in soil samples above criteria.	No additional investigation required.	No further action
2-52	Pickling Room	Concrete wall and acid-resistant floor	Building 203 A3	0	Unknown (Likely Acids)	P2-SB-37	Completed 1 soil boring. VOCs detected in soil samples below criteria. SVOCs detected in soil samples below criteria. No metals detected in soil samples above criteria. LNAPL containing TSCA level PCBs found in temporary well.	Further investigation activates required.	Area 5-2
ID 2-26	Quench Oil Operations	Quench Oil Tank	Building 206C B8 and C8	<10	Quench Oil	P2-SB-13 P2-SB-14	Completed two soil borings. SVOCs detected in soil samples below criteria. VOCs detected in soil samples below criteria. Metals detected in soil samples above GSI criteria. PCBs detected in soil samples.	Further investigation activities required.	Area 5-2
		Quench Oil Tank	Building 206 B4						
		Tank, Unknown	Building 206 A4						
		Water Quench Pit	Building 206 B3-4						
		Quench Oil Settling Tanks	Building 206 C3-4						
		Type B sumps	Building 206 C4-5						

TABLE 1
RACER LANSING PLANTS 2, 3 and 6
RFI WORK PLAN PHASE 1 INVESTIGATION SUMMARY - PLANT 2

AOI Identification ⁽¹⁾	AOI Title	AOI Description/Components	AOI Location Building Number Column/Bay	AOI Approximate Depth Below Grade (ft)	Materials Handled	Phase I Investigation Associated Soil Boring ID	RFI Phase I Investigation Activities Summary	Phase I Investigation Determination	Associated Phase II Investigation Area (See Table 1: RFI Work Plan Phase 2 Summary Matrix for summary of Phase 2 Investigation Activities and determinations)
ID 2-27	Paint Shop Sumps and Trenches	Three Sumps are 3'x3'x3' each	Buildings 206 and 237 B1-3	3	Paint Shop Liquid Wastes	P2-SB-22	Completed 1 soil boring. No VOCs detected in soil samples. SVOCs and metals not analyzed (no history of SVOCs or metals based on historical data or past operations).	No additional investigation required.	No further action.
ID 2-31	Press Pit and Associated Sumps, Pits, and Trenches	Two 3'x3' oil containment sumps under hydraulic presses	Building 207 A4-7	<15	Used Hydraulic Oil	P2-SB-18 P2-SB-19 P2-SB-20 P2-SB-21	Completed 4 soil borings. No VOCs in soil sampled detected. SVOCs detected in soil samples below criteria. Metals detected in soil samples above DWP and GSI criteria. Metals detected above DW criteria and GSI criteria in ground water sample collected. Shake tests completed showed positive results.	Further investigation activates completed.	Area 5-1
		Press pit sumps							
ID 2-32		2 oil containment sumps, 3'x3' and trench	Building 207 B7-8	3	Used Oil				
ID 2-33		2 oily waste line manhole sumps	Building 207 A5	<10	Oily Waste				
ID 2-34		2 Press Pits	Building 207 B5-6	<15	Used Hydraulic Oil				
ID 2-35		6" deep Tramp Oil trenches	Building 207 B1-4	<4	Used Tramp Oil				
		3' deep Tramp Oil sumps							
ID 2-49		Trenches and Hammer Pits Associated with Press Operations	Building 207 A2-11	<10	Unknown				
ID 2-36	Oil Separator and Sump	10" oily waste line runs to separator.	North Side of Building 231	<10	Used Oil	P2-SB-24	Completed 1 soil boring. PCBs detected in soils. VOCs detected in soil samples above DWP, GSI and/or SVII criteria. Shake test completed showed positive results. SVOCs detected in soil samples above GSI criteria.	Further investigation activities required.	Area 5-2
ID 2-37	Press Pits	Concrete press pits.	Building 242 C2-5	<15	Used Hydraulic Oil	P2-SB-26 P2-SB-23	Completed 2 soil borings. No VOCs in soils samples detected. SVOCs detected in soil samples above DWP and GSI criteria. No metal detected in soil sampled above criteria. PCBs detected in soils.	Further investigation activities required.	Area 8
		One sump associated with presses.	Building 242 B2						
ID 2-38	Scrap Steel Operations Pits	Scrap Steel Pits, 8' Deep	Building 242 A3-5	<15	Scrap Steel and Oily Waste	P2-SB-17	Completed 1 soil boring. SVOCs detected in soil samples below criteria. No VOCs in soil samples detected. No metals detected in soil samples above criteria.	Further investigation activities required.	Area 8
		Scrap Pit oily waste sump	Building 242 B2						
ID 2-39	Fuel Oil Pump House and Tank Farm	Eight oil storage tanks, 10.5' in diameter. Trenching associated with tanks. Three truck unloading stations associated with tanks	Building 229	<15	Fuel Oil	P2-SB-5 P2-SB-3 P2-SB-4	Completed 3 soil borings. VOCs detected in soil samples below criteria. No SVOCs in soil samples detected. Metals not analyzed.	Further investigation activities required.	Area 5-4
ID 2-55	PCB Storage Deck	10'x12' with one 1' deep sump in the center	Building 208A D1	1	PCBs	P2-SB-16	Completed 1 soil boring. PCBs non-detect in soil samples.	Therefore, no further investigation activities required.	No further action
ID 2-59	Press Pits	8' 4" deep, 21' by 35' and 67' by 25'	Building 201 D3, E3, F3, D-F/21-22, and K-M/21-22	9	Used Hydraulic Oil	P2-SB-15 P2-SB-25	Completed 2 soil borings. VOCs detected in soil samples above DWP criteria. SVOCs detected in soil samples above GSI criteria. Metals detected in soil samples above DWP and GSI criteria.	Further investigation activates required.	Area 5-3
Misc Item Data Gap Filler Borings	IDs: 2-20, 2-21, 2-22, 2-42, 2-43, 2-44, 2-46, 2-47, 2-48, 2-56, 2-57, 2-58, 2-59, 2-60, 2-63, 2-64,	SEE TABLE 2 IN THE RFI WORK PLAN (AUGUST 2011) FOR DESCRIPTIONS	SEE TABLE 2 IN THE RFI WORK PLAN (AUGUST 2011) FOR DESCRIPTIONS	SEE TABLE 2 IN THE RFI WORK PLAN (AUGUST 2011) FOR DESCRIPTIONS	SEE TABLE 2 IN THE RFI WORK PLAN (AUGUST 2011) FOR DESCRIPTIONS	P2-SB-8 P2-SB-1 P2-SB-2 P2-SB-9 P2-SB-10	Completed 7 soil borings. VOCs detected in soils above DWP criteria. SVOCs detected in soil sampled above DWP criteria. Metals detected in soil samples above DWP and GSI criteria.	Further investigation activities required.	Area 5-3

Notes:
1. AOI's listed represent the complete list of AOI's requiring investigation activates as agreed upon between ARCADIS and MDEQ over multiple working sessions and RFI Matrix submittal and comment periods. This list of AOIs represents the final list as presented in the approved RFI Work Plan dated August 2011.

NA - not applicable
Csat - Part 201 Soil Saturation Concentration Screening Levels
DC - Direct Contact Criteria
DWP - Drinking Water Protection Criteria
GSIP - Groundwater Surface Water Interface Protection
PCBs - Polychlorinated biphenyls
PSIC - Particulate Soil Inhalation Criteria
AOI - Area of Interest
ft. - Feet

LNAPL - Light Non-Aqueous Phase Liquic
ft. - Feet
SVIIC - Soil Volatilization to Indoor Air Inhalation Criteria
SVOCs - Semi-Volatile Organic Compounds
VOCs - Volatile Organic Compounds
VSIC - Infinite Source Volatile Soil Inhalation Criteria
RWC - Risk-based Redevelopment Worker Contact
TAL - target analyte list (for metals) - note: will include speciation of chromium (trivalent and hexavalent) where noted above
TCL - target compound list (for VOCs and SVOCs)

TABLE 2
RACER LANSING PLANTS 2, 3 and 6
RFI WORK PLAN PHASE 1 INVESTIGATION SUMMARY - PLANT 3

AOI Identification ⁽¹⁾	AOI Title	AOI Description/Components	AOI Location Building Number Column/Bay	AOI Approximate Depth Below Grade (ft)	Materials Handled	Phase I Investigation Associated Soil Boring ID Soil Boring ID	RFI Phase I Investigation Activities Summary	Phase I Investigation Determination	Associated Phase II Investigation Area (See Table 1: RFI Work Plan Phase 2 Summary Matrix for summary of Phase 2 Investigation Activities and determinations)
3-2	SWMU 16 - Oily Waste Treatment System	Treated oily wastewater; 2 concrete used oil holding tanks, 2 concrete oily sludge tanks	Northeast Portion of Building 301A	20	Oil Waste	P3-SB-5 P3-SB-6 boring 27	Completed 3 soil borings. VOCs detected in soil samples but below criteria. No SVOCs detected in soil samples. No metals detected above criteria in soil samples.	Further investigation activities required.	Area 18
3-3	SWMU 17 - Scrap Metal Pits and Bins	Scrap Yard Dock Area, 24 Scrap Pits (10' by 10' by 13'), 4,000 Gallon Soluble Oil Sump Pit, 2,000 Gallon Cutting Oil Sump Pit	Outside of Building 301, West of RR Tracks and East of Building 301, A8-11	10	Scrap Metal	P3-SB-28 P3-SB-29	Completed 2 soil borings. SVOCs not detected in soil samples. Metals detected above GSI criteria in soil samples. Metals detected above DW criteria in ground water sample collected.	Further investigation activities required.	Area 17
3-4	SWMU 18 - Machining Residue Storage Area	20 Cubic Yard Roll-off Box located .	East of scrap metal conveyor	0	Machining Residue	P3-SB-30	Completed 1 soil boring. Shake tests completed showed positive results. SVOCs detected in soil samples below criteria. No metals detected in soil samples above criteria.	Further investigation activities required	Area 17
3-5	SWMU 19 - Clarifier	Circular concrete below-grade clarifier	South of Willow Road	<15	Storm Water, Oil and Sediments		Inspect integrity of Tank	Further investigation activities required	TO BE COMPLETED
3-6	SWMU 20 - Former Electroplating Waste Treatment System	Treated electroplating wastes (copper, nickel, and chromium). Included an Acid Wash Tank, Sludge Storage Tank, Waste Acid Storage Tank,	Building 301A Whole Building Buildings 301A and 301D Whole Building	10	Electroplating Waste	boring 27	Completed 1 soil boring. VOCs not detected in soil samples. SVOCs not detected in soil samples. No metals detected above criteria in soil samples. Groundwater samples collected from nearby wells showed metals above criteria.	Further investigation activities required	Area 18
3-9	AOC 2 - Building 301 UST Farm	6 USTs, stored polymer, sulfuric acid, soluble oil, gasoline, hydraulic oil, and APCO cleaner; Were removed in 1989.	East of Building 301	<15	Polymer, Sulfuric Acid, Soluble Oil, Gasoline, Hydraulic Oil, APCO Cleaner	SB-2 (Original) SS-15	Completed 2 soil borings. No VOCs detected in soils samples. SVOCs detected in soil samples below criteria. No metals detected above criteria in soil samples.	Further investigation activities required	Area 17
3-10	AOC 4 - Former Electroplating Area	(1) Electroplating operations (2) New and Reworked Storage Tanks, Chromic Acid Reclaim, 7' diameter by 9' tall (3) 17 Acid Copper Plating Tanks (4) Sludge Sump Under Nickel Storage Tank, 1350 Gallons (5) 3 Wash water Tanks (1900 gal each) in Plating Area (6) Nickel Plating Tanks 1, 2, 3, 4, 6, 7, 8, and 9 (7) Copper Buffing Wash and Rinse Tanks (8) Bumper Plating Sumps (9) Dur'ni Nickel Operations Area, Tanks, Sumps and Drain Deck	North-Central Portion of Building 301	15	Electroplating Materials	boring 27 CH-13 CH-14 CH-15	Completed 4 soil borings. VOCs not detected in soil samples. SVOCs not detected in soil samples. Ground water sample collected above DW and GSI criteria for metals.	Further investigation activities required	Area 14
3-11	SWMU 14 - Former Scrap Metal Storage Areas	Stored scrap metal	West of Building 304 and East of Building 302	<5	Scrap Metal	P3-SB-24 P3-SB-31 P3-SB-32 P3-SB-34	Completed 4 soil borings. SVOCs detected in soil samples below criteria. Metals detected above criteria in soils samples.	Further investigation activities required.	Area 16
ID 3-13	Henry Filter Pits and Trenching	Coolant Trench and Sump, 1' 2" wide sluice trench Coolant Trenching Henry Filter Pits and Trenching	Building 302A C14 Building 302A E14 and E14 Building 302A A-B/12-15	<15	Used Hydraulic Oil	P3-SB-23	Completed 1 soil boring. No VOCs detected in soil samples. No SVOCs detected in soil samples. No metals detected in soil samples above criteria.	No further investigation activities required	No further Action
ID 3-15	Oil Sump for Crank Shaft Operations	N/A	Building 302A K12	<15	Used Oil	P3-SB-26	Completed 1 soil boring. VOCs detected in soil samples below criteria. Shake tests showed positive results. SVOCs detected in soil samples below criteria. Metals detected in soil samples above GSI criteria. PCBs detected in soil samples.	Further investigation activities required.	Area 15
ID 3-17	Broach Machine Filter Pit	9' by 20' by 9' pit	Building 302A A13	9	Used Oil	P3-SB-25	Completed 1 soil boring. No VOCs detected in soil samples. No SVOCs detected in soil samples. Metals detected in soil samples above DWP and/or GSI and/or DC criteria.	Further investigation activities required.	Area 19

TABLE 2
RACER LANSING PLANTS 2, 3 and 6
RFI WORK PLAN PHASE 1 INVESTIGATION SUMMARY - PLANT 3

AOI Identification ⁽¹⁾	AOI Title	AOI Description/Components	AOI Location Building Number Column/Bay	AOI Approximate Depth Below Grade (ft)	Materials Handled	Phase I Investigation Associated Soil Boring ID Soil Boring ID	RFI Phase I Investigation Activities Summary	Phase I Investigation Determination	Associated Phase II Investigation Area (See Table 1: RFI Work Plan Phase 2 Summary Matrix for summary of Phase 2 Investigation Activities and determinations)
ID 3-51	Building 304 and 305 Press Pit Operations	Danly Press Utility Trench	Building 304, B1-3	<25	Used Hydraulic Oil	P3-SB-11 P3-SB-12 P3-SB-13 P3-SB-16 P3-SB-17 P3-SB-18 P3-SB-19 P3-SB-21 P3-SB-22 P3-SB-27	Completed 10 soil borings. No VOCs detected in soil samples. SVOCs detected in soil samples below criteria. Metals detected in soil samples above DWP and/or GSI and/or DC criteria.	Further investigation activities required	Area 11 or Area 20 or Area 21
		Press Pits Sump (12" deep)	Building 304, B6 and C6						
		Four Danly Surge Tanks (16" diameter)	Building 304, C5-9						
		Scrap Pit	Building 304, F4 *						
		Blanker Pits and Sumps (Eight 2'x2'x2' deep sumps; Six 1'x1'x1' deep sumps)	Building 304, A-E/2-3 *						
		Auxiliary Waste Sump	Building 304, B8 *						
		Oil Spill Trench Under 240 Press Line	Building 304, B4-8						
		Press Pit, Trenching and Sump	Building 304, E2 and E3						
		Panel Die Tag Out Line Oil Trench and Sump	Building 304, E4-7 *						
		Press Pits, Sumps and Trenches	Building 304, D-E/2-3						
		E Press Line Sumps and Trenches	Building 305, E4-10 *						
		Press Pit and Sump	Building 305, A8-10 *						
		Press Pit	Building 305, A6-8						
		Hood Press Line Oil Trench and Sumps	Building 305, A-B/9-13						
		Danly Press Pit, Trenching and Sump	Building 305, A2 and A3						
		Shock Tower Press Sumps and Trenching	Building 305, A4-6						
		Fender Press Line Trench and Sumps	Building 305, D3-9 *						
		Clearing Toggle Press Sump	Building 305, A16						
		Try Out Press and Sump and Trench	Building 305, A13-15						
		Synromatic Press Line Sumps and Trenches	Building 305, A6-12						
ID 3-54	Sump	Bumper Reinforcement Press Line Sumps and Trenches	Building 305, C-D/3-8	<5	Unknown	P3-SB-20	Completed 1 soil boring. VOCs detected in soil samples above SVII criteria. No SVOCs detected in soil samples. No metals detected in soil samples above criteria.	Further investigation activities required.	Area 11
		Rersion Presses Sumps and Trenches	Building 305, A-B/1-3 *						
Misc Item Data Gap Filler Borings	IDs: 3-33, 3-34, 3-38, 3-40, 3-41, 3-42, 3-43, 3-44, 3-45, 3-46, 3-47, 3-48, 3-51, 3-52, 3-53, 3-54, 3-55, 3-56, 3-57, 3-58, 3-59, 3-60, 3-61, 3-62, and 3-63	SEE TABLE 2 IN THE RFI WORK PLAN (AUGUST 2011) FOR DESCRIPTIONS	SEE TABLE 2 IN THE RFI WORK PLAN (AUGUST 2011) FOR DESCRIPTIONS	SEE TABLE 2 IN THE RFI WORK PLAN (AUGUST 2011) FOR DESCRIPTIONS	SEE TABLE 2 IN THE RFI WORK PLAN (AUGUST 2011) FOR DESCRIPTIONS	P3-SB-14 P3-SB-15	Completed 2 soil borings. No VOCs detected in soil samples. No SVOCs detected in soil samples. No metals detected in soil samples above criteria.	No further investigation activities required.	No further Action
Misc Item Data Gap Filler Borings	IDs: 3-12, 3-13, 3-14, 3-15, 3-16, 3-17, 3-18, 3-19, 3-20, 3-21, 3-24, 3-25, 3 -26, 3-27, 3-28, 3-29, 3-30, 3-36, 3-38, 3-49	SEE TABLE 2 IN THE RFI WORK PLAN (AUGUST 2011) FOR DESCRIPTIONS	SEE TABLE 2 IN THE RFI WORK PLAN (AUGUST 2011) FOR DESCRIPTIONS	SEE TABLE 2 IN THE RFI WORK PLAN (AUGUST 2011) FOR DESCRIPTIONS	SEE TABLE 2 IN THE RFI WORK PLAN (AUGUST 2011) FOR DESCRIPTIONS	P3-SB-8 P3-SB-9 P3-SB-10	Completed 3 soil borings. No VOCs detected in soil samples. SVOCs detected in soil samples below criteria. No metals detected in soil samples above criteria.	Further investigation activities required.	Area 14
Misc Item Data Gap Filler Borings	IDs: 3-35, 3-37 and 3-50	SEE TABLE 2 IN THE RFI WORK PLAN (AUGUST 2011) FOR DESCRIPTIONS	SEE TABLE 2 IN THE RFI WORK PLAN (AUGUST 2011) FOR DESCRIPTIONS	SEE TABLE 2 IN THE RFI WORK PLAN (AUGUST 2011) FOR DESCRIPTIONS	SEE TABLE 2 IN THE RFI WORK PLAN (AUGUST 2011) FOR DESCRIPTIONS	P3-SB-7	Completed 1 soil boring. No VOCs detected in soil samples. No SVOCs detected in soil samples. Metals detected in groundwater above DW criteria.	Further investigation activities required.	Area 14
Background Sampling	NA	NA	NA	NA	NA	P3-SB-1 P3-SB-2 P3-SB-3 P3-SB-4	Completed 4 soil borings. No VOCs detected in soil samples. No SVOCs detected in soil samples. No metals detected in soil samples above criteria. PCBs detected in soil samples.	Further investigation activities required.	Area 13

Notes:
1. AOI's listed represent the complete list of AOI's requiring investigation activates as agreed upon between ARCADIS and MDEQ over multiple working sessions and RFI Matrix submittal and comment periods. This list of AOIs represents the final list as presented in the approved RFI Work Plan dated August 2011.

NA - not applicable
AOI - Area of Interest
Csat - Part 201 Soil Saturation Concentration Screening Levels
DC - Direct Contact Criteria
DWP - Drinking Water Protection Criteria
GSIP - Groundwater Surface Water Interface Protection
MDEQ - Michigan Department of Environmental Quality
PCBs - Polychlorinated biphenyls
PSIC - Particulate Soil Inhalation Criteria

SWMU - Solid Waste Management Unit
SVIIC - Soil Volatilization to Indoor Air Inhalation Criteria
SVOCs - Semi-Volatile Organic Compounds
VOCs - Volatile Organic Compounds
VSIC - Infinite Source Volatile Soil Inhalation Criteria
RC - restrictive covenant
RWC - Risk-based Redevelopment Worker Contact
TAL - target analyte list (for metals) - **note:** will include speciation of chromium (trivalent and hexavalent) where noted above
TCL - target compound list (for VOCs and SVOCs)

TABLE 3
RACER LANSING PLANTS 2, 3 and 6
RFI WORK PLAN PHASE 1 INVESTIGATION SUMMARY - PLANT 6

AOI Identification ⁽¹⁾	AOI Title	AOI Description/Components	AOI Location Building # Column/Bay	AOI Approximate Depth Below Grade (ft)	Materials Handled	Phase I Investigation Associated Soil Boring ID	RFI Phase I Investigation Activities Summary	Phase I Investigation Determination	Associated Phase II Investigation Area (See Table 1: RFI Work Plan Phase 2 Summary Matrix for summary of Phase 2 Investigation Activities and determinations)
6-1	SWMU 1 - Original Hazardous Waste Storage Area	40'x100' concrete area surrounded by trench; stored ELPO and paint-related wastes; Removed and replaced by Air Pollution Control System (ACSP) Incinerator	North of Building 22	5	ELPO and Paint Related Wastes	P6-SB-14 P6-SB-15	Completed 2 soil borings. No VOCs detected in soil samples. No SVOCs detected in soil samples. No metals detected in soil samples above criteria.	No further investigation activities required.	No Further Action
6-10	SWMU 10 - Non-Hazardous Waste Consolidation Area	40'x80' roofed area on a concrete base; managed epoxy purge, grinding waste, oven condensate, trim purge, and used hydraulic oil	South of Building 22	0	Epoxy Purge, Grinding Waste, Oven Condensate, Trim Purge and Used Hydraulic Oil	P6-SB-28 P6-SB-29	Completed 2 soil borings. VOCs not analyzed (no history of VOCs based on historical data or operations). No SVOCs detected in soil samples. No metals detected in soil samples above criteria.	No further investigation activities required.	No Further Action
6-11	SWMU 11 -- Wastewater Cistern (Industrial waste treatment pit)	100,000 gallons; managed wash water from rinsing automobile bodies and the overflow of phosphoric acid from phosphoric acid pickling tanks	Building 18 PP-QQ/11-12	<20	Automobile Body Wash Water and Phosphoric Acid	P6-SB-7 P6-SB-8	Completed 2 soil borings. VOCs and SVOCs not analyzed (no history of VOCs or SVOCs based on historical data or operations). Shake test completed showed positive results. Metals detected above DW criteria in groundwater sample collected.	Further investigation activities required.	Collected groundwater sample from P6-SB-07
6-14	SWMU 14 - Oil Accumulation Area	55-gallon steel drums; stored waste hydraulic oil	Building 8	0	Used Hydraulic Oil	P6-SB-1	Completed 1 soil boring. No VOCs detected in soil samples. No SVOCs detected in soil samples. No metals detected in soil samples above criteria.	No further investigation activities required.	No Further Action
6-16 6-33	AOC 1 - Tanks 5 and 6; Tank Farm	Tank 5: 4,000-gallon steel diesel fuel storage tank; Tank 6: 15,000-gallon steel gasoline storage tank 16' bgs; stores purge thinner/diesel fuel; Double walled tank with leak detection system; Installed in the same location as AOI 6-16	South of Building 23	15	Diesel and Gasoline, Metals Purge Thinner and Diesel Fuel	P6-SB-43	Completed 1 soil boring. No VOCs detected in soil samples. No SVOCs detected in soil samples. No metals detected in soil samples above criteria. 1,4-Dioxane detected in nearby monitoring wells.	Further investigation activities required.	Area 6
6-17 (formerly 6-4, 6-8)	AOC 2 - Tanks 1 (SWMU 4) and 3 (SWMU 8)	Tank 1 (SWMU 4): 7,500-gallon carbon steel virgin thinner storage tank; Tank 3 (SWMU 8): 12,000-gallon carbon steel virgin thinner storage tank	Southwest of Building 16	15	Virgin Thinner	P6-SB-42 (SA 4-3), VEW-5 P6-SB-33	Completed 3 soil borings. VOCs detected in soil samples above DWP, GSI and SVII criteria. SVOCs and metals not analyzed (no history of SVOCs or metals based on historical data or operations).	Further investigation activities required.	Area 7
6-18	Lead in Soil Area	Lead smelter	West of Buildings 10, 11, 12, 13 and 15	0	Metals	P6-SB-13 P6-SB-12	Completed 2 soil borings. VOCs detected below criteria in soil samples. SVOCs detected below criteria in soil samples. Metals detected in soil samples above DWP and/or GSI criteria. Metals and VOCs detected above DW and/or GSI in groundwater sample collected.	Further investigation activities required.	Area 5-6
6-19	Process Waste Tunnel	Runs underneath Building 28 and 21; exits Site to the west and continues to GM Lansing Plant 2	West of the Power Plant	15	Process Waste		Collected groundwater samples from nearby monitoring wells. VOCs and metals detected above DW and GSI criteria.	Further investigation activities required.	Area 10
6-30	New Weld Pit	18'x50'x4'	Building 18 QQ-10	4	Metals		Collected groundwater samples from nearby monitoring wells. Metals detected above DW criteria.	Further investigation activities required.	Collected groundwater sample from P6-SB-07
6-43	Stormceptor	Includes stormceptor oil and sediment separator	West of Building 15	15	Storm Water, Oil and Sediments		Collected groundwater samples from nearby monitoring wells. VOCs and metals detected above DW and GSI criteria.	Further investigation activities required.	Area 5-7 (still assessing)
6-47	Leaking Industrial Waste Line	N/A	Building 16 ZZ115	15	Process Waste	P6-SB-4	Completed 1 soil boring. No VOCs detected in soil samples. SVOCs detected in soil samples below criteria. No metals detected in soil samples above criteria.	Further investigation activities required.	Area 7
6-48	Former Coal Pile	Was replaced by Bldg. 28	Building 28 Whole Building	0	Coal	P6-SB-38 P6-SB-39	Completed 2 soil borings. VOCs and SVOCs not analyzed (no history of VOCs or SVOCs based on historical data or operations). No metals detected in soil sampled above criteria.	Further investigation activities required due to location of nearby AOIs requiring additional investigations.	Area 5-6
6-49	2nd Lacquer Booth	Associated with former paint shop	Building 10 Q-R/34-36	5	Paint and Thinner	P6-SB-20	Completed 1 soil boring. No VOCs detected in soil samples. SVOCs not analyzed (no history of SVOCs based on historical data or historical operations). Metals detected in soil samples above DWP and GSI criteria.	Further investigation activities required.	Area 5-8
6-59	Stormceptor	Includes stormceptor oil and sediment separator	South of Building 23	15	Storm Water		LNAPL present in Stormceptor associated with AOI 6-42.	Further investigation activities required at both AOI 6-42 and AOI 6-59.	Area 6
6-60	Paint Mix Room	N/A	Building 21 EEE-KKK/8-103	0	Paint and Thinner	P6-SB-30 P6-SB-31 P6-SB-32 P6-SB-41 (SA 5-5)	Completed 4 soil borings. VOCs detected in soil samples above DWP, GSI and SVII criteria. VOCs detected above DW & GSI in groundwater water sample. SVOCs and metals not analyzed (no history of SVOCs or metals based on historical data or operations).	Further investigation activities required.	Area 9
6-63	Sump	N/A	Building 20 NN21	5	Unknown		Collected groundwater samples from nearby monitoring wells. Metal exceedances detected.	Further investigation activities required.	Area 10
6-78	Former PCB Transformers	N/A	East of the Power Plant	0	PCBs Oil		Collected groundwater samples from nearby monitoring wells. No VOCs or SVOCs detected. No metals detected above criteria.	No further investigation activities required.	No Further Action

TABLE 3
RACER LANSING PLANTS 2, 3 and 6
RFI WORK PLAN PHASE 1 INVESTIGATION SUMMARY - PLANT 6

AOI Identification ⁽¹⁾	AOI Title	AOI Description/Components	AOI Location Building # Column/Bay	AOI Approximate Depth Below Grade (ft)	Materials Handled	Phase I Investigation Associated Soil Boring ID	RFI Phase I Investigation Activities Summary	Phase I Investigation Determination	Associated Phase II Investigation Area (See Table 1: RFI Work Plan Phase 2 Summary Matrix for summary of Phase 2 Investigation Activities and determinations)
6-81	Former Paint Shop Area	N/A	Buildings 11, 12, 13, 14 and 14X A-M/37-66	10	Paint and Thinner	P6-SB-18 P6-SB-19 P6-SB-35 P6-SB-36 P6-SB-37	Completed 5 soil borings. VOCs detected in groundwater below criteria. SVOCs detected above GSI in ground water sample collected. Metals detected above DW and GSI in ground water sample collected.	Further investigation activities required.	Area 5-8
6-82	Former Coal Chute Building	Basement filled with water at the time of the site walkthrough	South of Building 28	15	Coal	P6-SB-40 (SA20-1)	Completed 1 soil boring. VOCs and SVOCs not analyzed (no history of VOCs or SVOCs based on historical data or operations). No metals detected in soil samples above criteria.	Further investigation activities required due to location of nearby AOIs requiring additional investigations.	Area 10
6-83	Whole Bldg. (Sumps, Pits, Trenches, Former WWTP)	N/A	Power Plant Whole Building	15	Waste Water Treatment Sludge	P6-SB-16 P6-SB-17	Completed 2 soil borings. No VOCs detected in soil samples. No SVOCs detected in soil samples. No metals detected in soil samples above criteria.	No further investigation activities required.	No Further Action
6-87	Oil/Water Separator	Associated with truck dock operations	West of Building 9	5	Used Oil	P6-SB-21	Completed 2 soil borings. No VOCs detected in soil samples. No SVOCs detected in soil samples. No metals detected in soil samples above criteria.	No further investigation activities required.	No Further Action
6-88	Parking Lot Exceedance	NA	NA	0	Unknown	P6-SB-11 P6-SB-22 P6-SB-23 P6-SB-34 (SA-34-6)	Completed 4 soil borings. VOCs detected in soil samples above DWP and/or GSI criteria. VOCs detected above DW and GSI criteria in groundwater sample collected. SVOCs detected above GSI in groundwater sample collected. SVOCs detected in soil samples below criteria. Metals detected in soil samples above DWP and/or GSI criteria.	Further investigation activities required.	Area 5-7
IID 6-36	Building 23 Sumps and Trenches	Sump Pit	Building 23 F17	<5	Unknown	P6-SB-24 P6-SB-25 P6-SB-26	Completed 3 soil borings. VOCs not detected in soil samples. Shake test results positive. SVOCs not detected in soil samples. No metals detected above criteria.	Further investigation activities required.	North of Area 6 ???
ID 6-38		Trench	Building 23 B-F/17-18	<5	Unknown				
ID 6-39		Trench	Building 23 G-H/15-19	<5	Unknown				
ID 6-75		Associated with the repairing and loading of trucks that were formerly used to haul automobile bodies from the Facility to an assembly location	Building 23 F17	<5	Used Automotive Fluids				
Misc Item Data Gap Filler Borings	IDs: 6-22, 6-23, 6-24, 6-25, 6-26, 6-27, 6-28, 6-29, 6-35, 6-45, 6-50, 6-51,6-52, 6-53, 6-54, 6-55, 6-56, 6-57, 6-67, 6-69, 6-70, 6-71, 6-72, 6-73, 6-74, 6-76, 6-77	SEE TABLE 2 IN THE RFI WORK PLAN (AUGUST 2011) FOR DESCRIPTIONS	SEE TABLE 2 IN THE RFI WORK PLAN (AUGUST 2011) FOR DESCRIPTIONS	SEE TABLE 2 IN THE RFI WORK PLAN (AUGUST 2011) FOR DESCRIPTIONS	SEE TABLE 2 IN THE RFI WORK PLAN (AUGUST 2011) FOR DESCRIPTIONS	P6-SB-2 P6-SB-5 P6-SB-6 P6-SB-27	Completed 4 soil borings. VOCs not detected in soil samples. Shake test results positive. SVOCs detected in soil samples below criteria. No metals detected in soil samples above criteria.	Further investigation activities required.	Near Area 9 Resampled temporary well P6-SB-7. Completed VAP-A9-RR242
Background Sampling	NA	NA	NA	NA	NA	P6-SB-3 P6-SB-9 P6-SB-10	Completed 3 soil borings. VOCs and SVOCs not analyzed (no history of VOCs or SVOCs based on historical data or past operations). Metals detected above DW and GSI in groundwater samples collected.	Further investigation activities required.	Installed bedrock well MW-12-3. Assessing Plant 3 outfall 3-005

Notes:

1. AOI's listed represent the complete list of AOI's requiring investigation activates as agreed upon between ARCADIS and MDEQ over multiple working sessions and RFI Matrix submittal and comment periods. This list of AOIs represents the final list as presented in the approved RFI Work Plan dated August 2011.

Footnotes

NA - not applicable
AOI - Area of Interest
Csat - Part 201 Soil Saturation Concentration Screening Levels
DC - Direct Contact Criteria
DWP - Drinking Water Protection Criteria
ft. - Feet
GSIP - Groundwater Surface Water Interface Protection
LNAPL - Light Non-Aqueous Phase Liquid
NA - Not Applicable
MDEQ - Michigan Department of Environmental Quality
PCBs - Polychlorinated biphenyls

PSIC - Particulate Soil Inhalation Criteria
SWMU - Solid Waste Management Unit
SVIIC - Soil Volatilization to Indoor Air Inhalation Criteria
SVOCs - Semi-Volatile Organic Compounds
VOCs - Volatile Organic Compounds
VSIC - Infinite Source Volatile Soil Inhalation Criteria
RC - restrictive covenant
RWC - Risk-based Redevelopment Worker Contact
TAL - target analyte list (for metals) - note: will include speciation of chromium (trivalent and hexavalent) where noted above
TCL - target compound list (for VOCs and SVOCs)



Appendix B

4DIM Models (previously
provided)



Appendix C

Geologic Cross-Sections

CITY: KNOXVILLE DIV: ENV DB: A. SMITH PIC: PM: TM: TR: PROJECT NUMBER: COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Intl
G:\GIS\Project Files\Motor\liquidation\Company\Lansing\Docs\Phase 2 RFI Report Figs\FIG C-1 - Cross-section locations.mxd PLOTTED: 3/28/2013 10:17:37 AM BY: PCurry

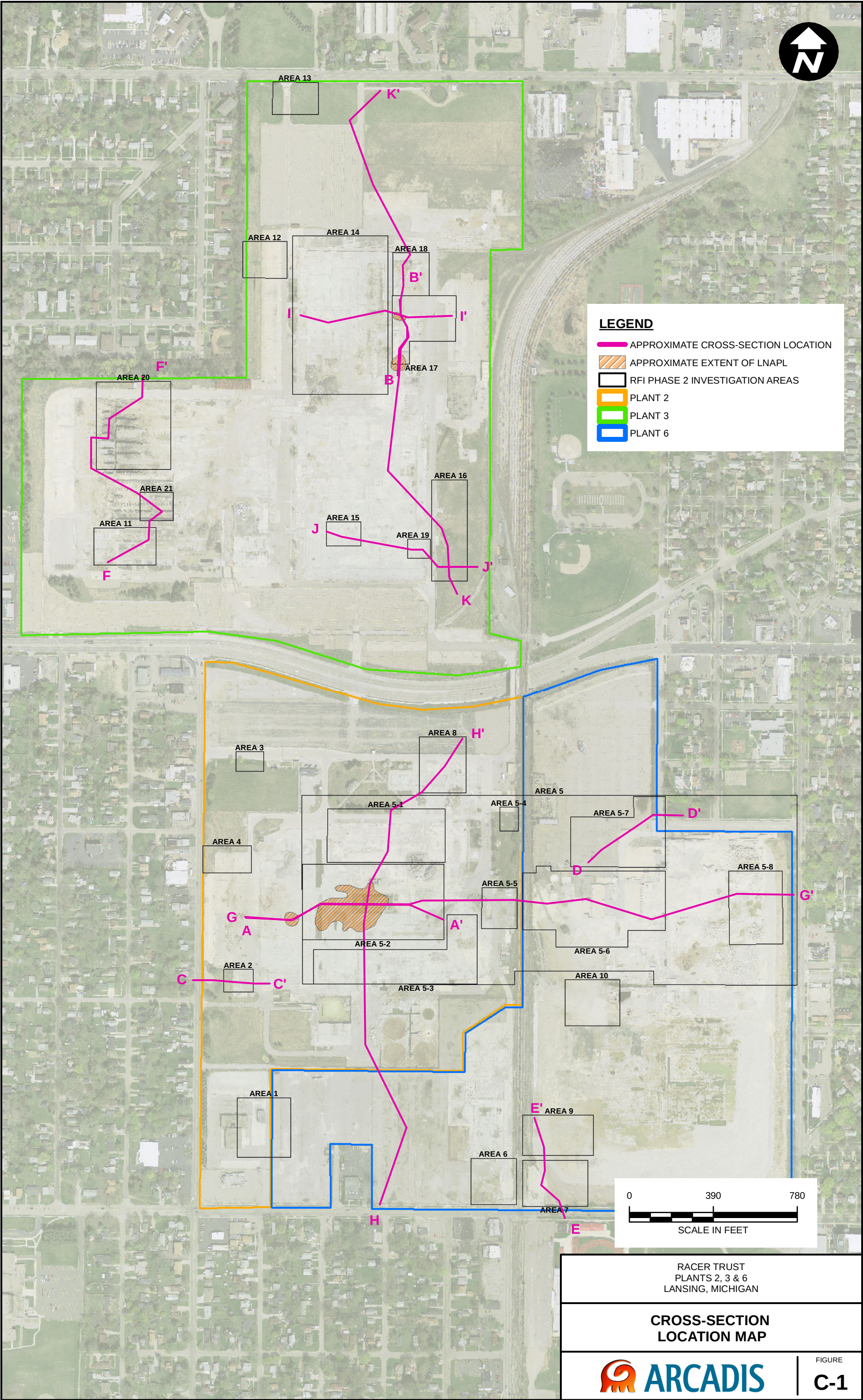


Figure C-2
Plant 2, Area 5.2 Cross Section
(Groundwater)
RACER Trust
Plants 2, 3 & 6, Lansing, Michigan

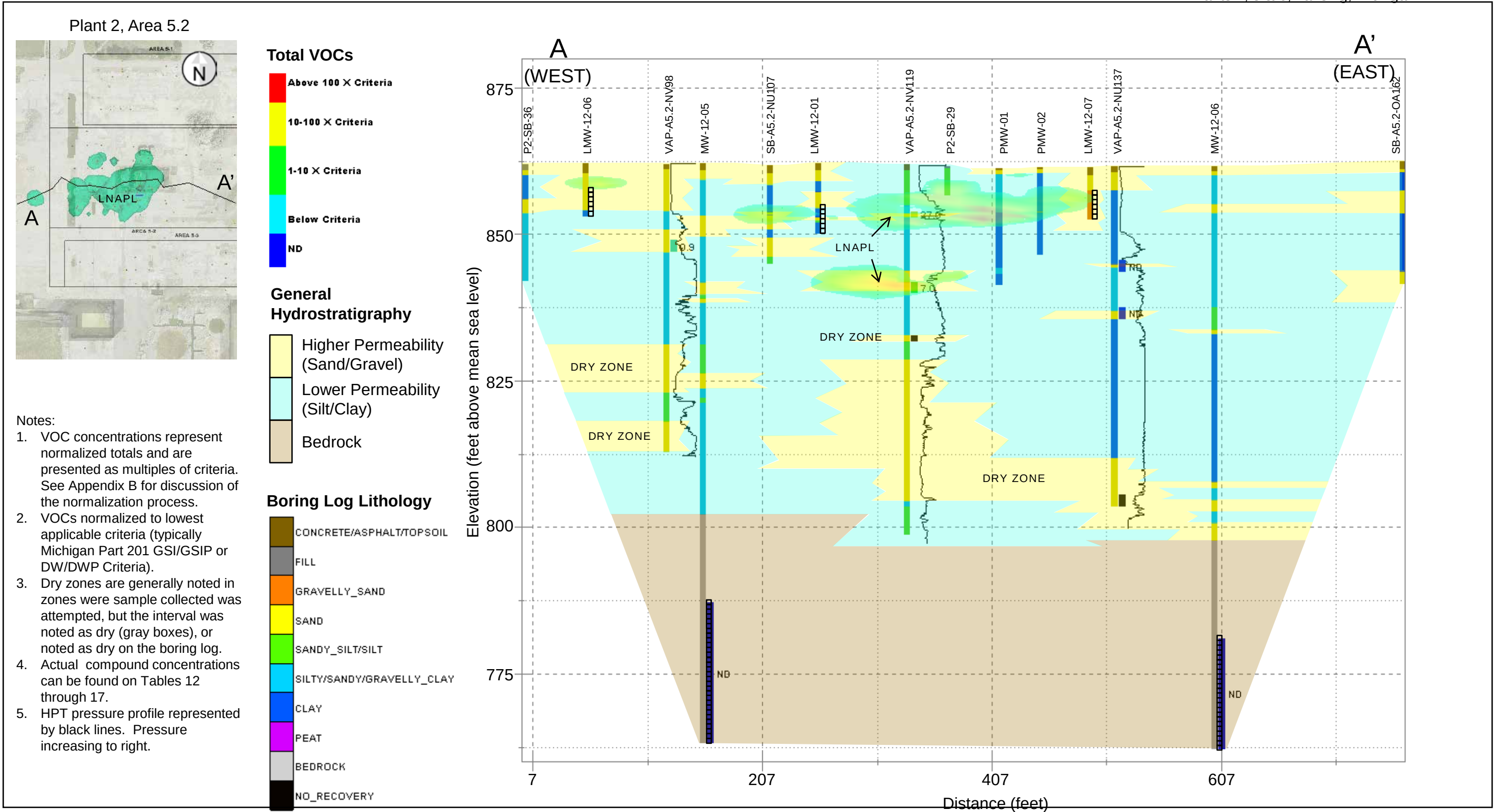
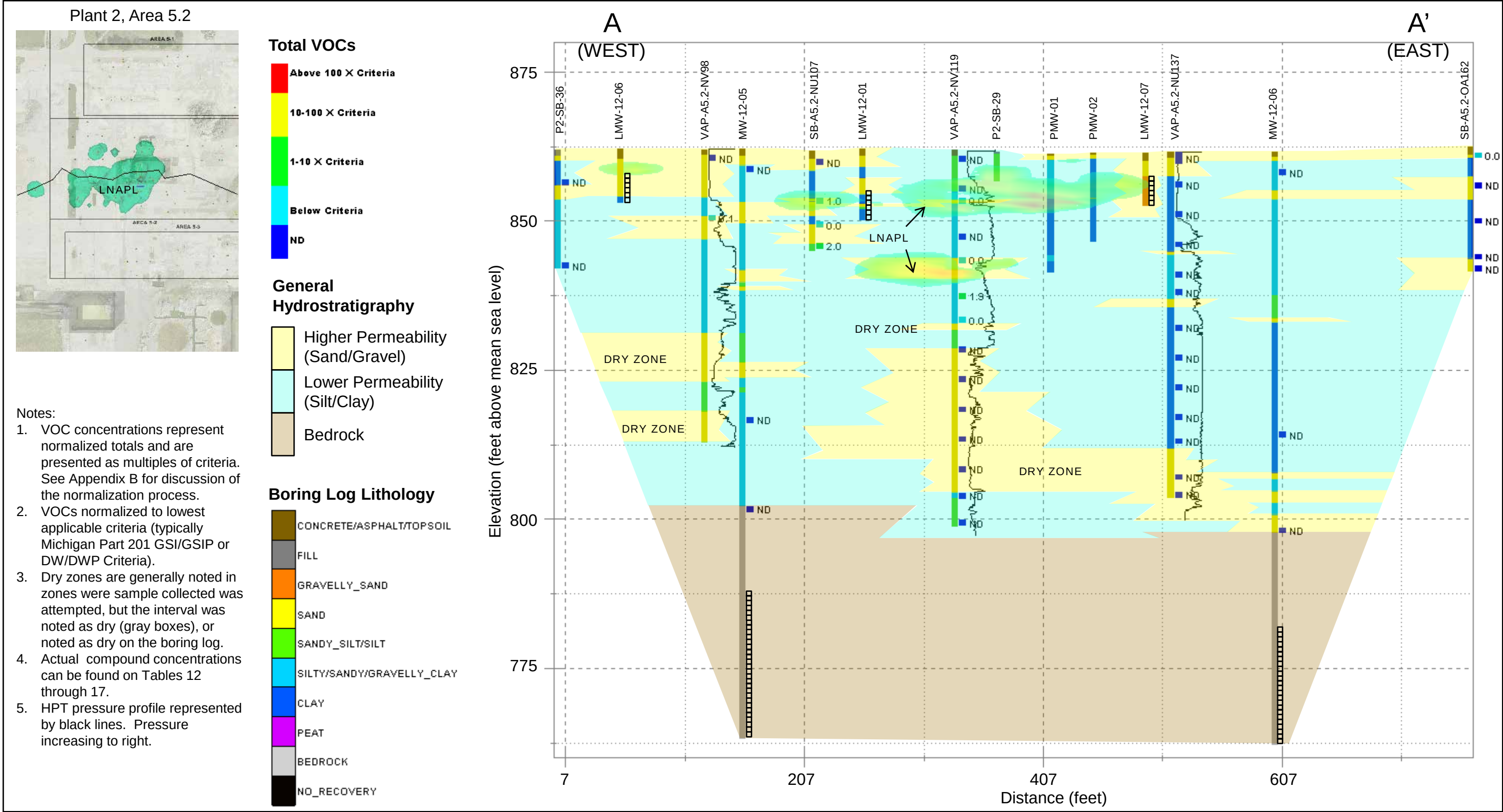
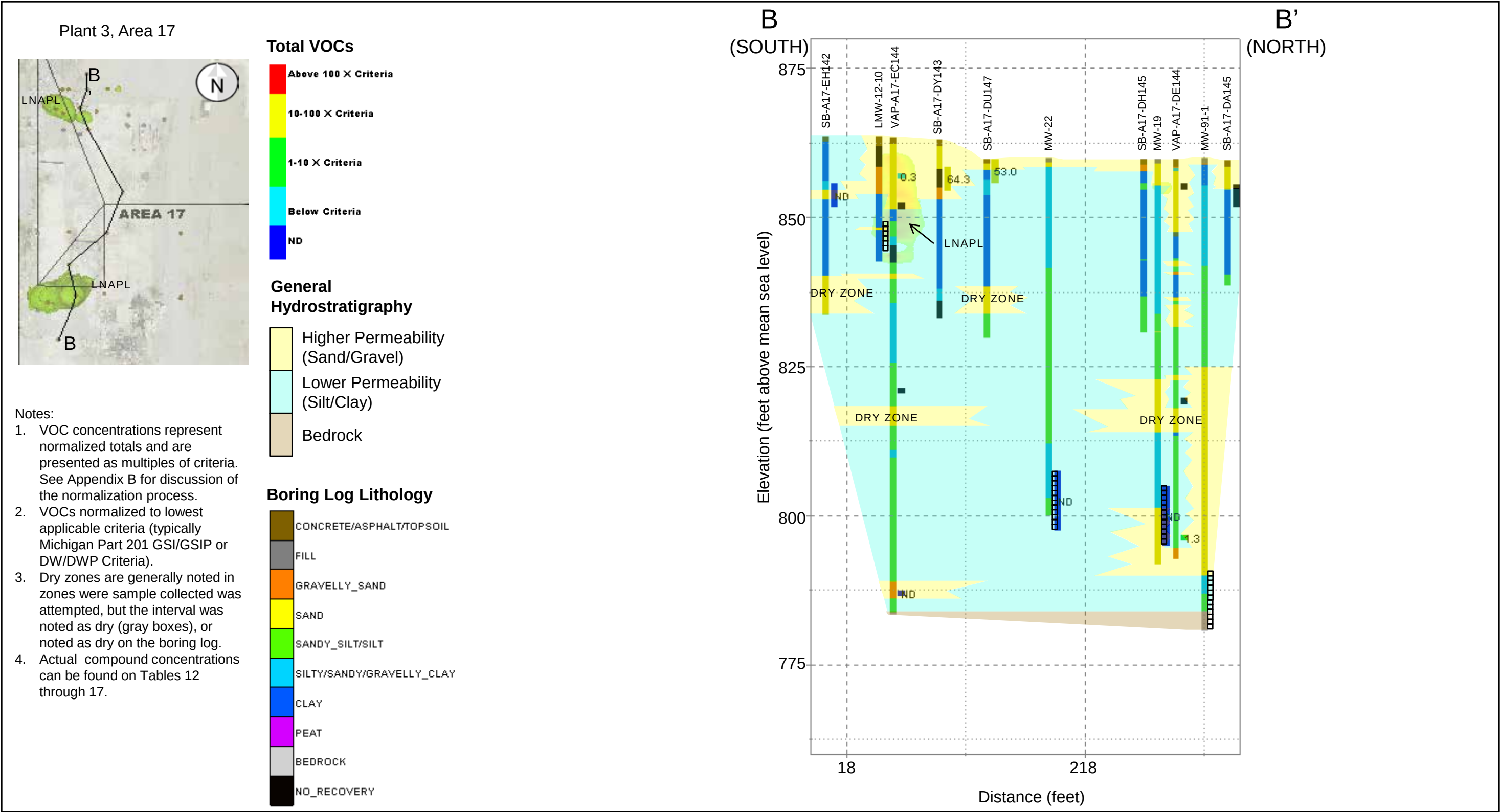


Figure C-3
Plant 2, Area 5.2 Cross Section
(Soil)
RACER Trust
Plants 2, 3 & 6, Lansing, Michigan



Source:

Figure C-4
Plant 3, Area 17 Cross Section
(Groundwater)
RACER Trust
Plants 2, 3 & 6, Lansing, Michigan



Source:

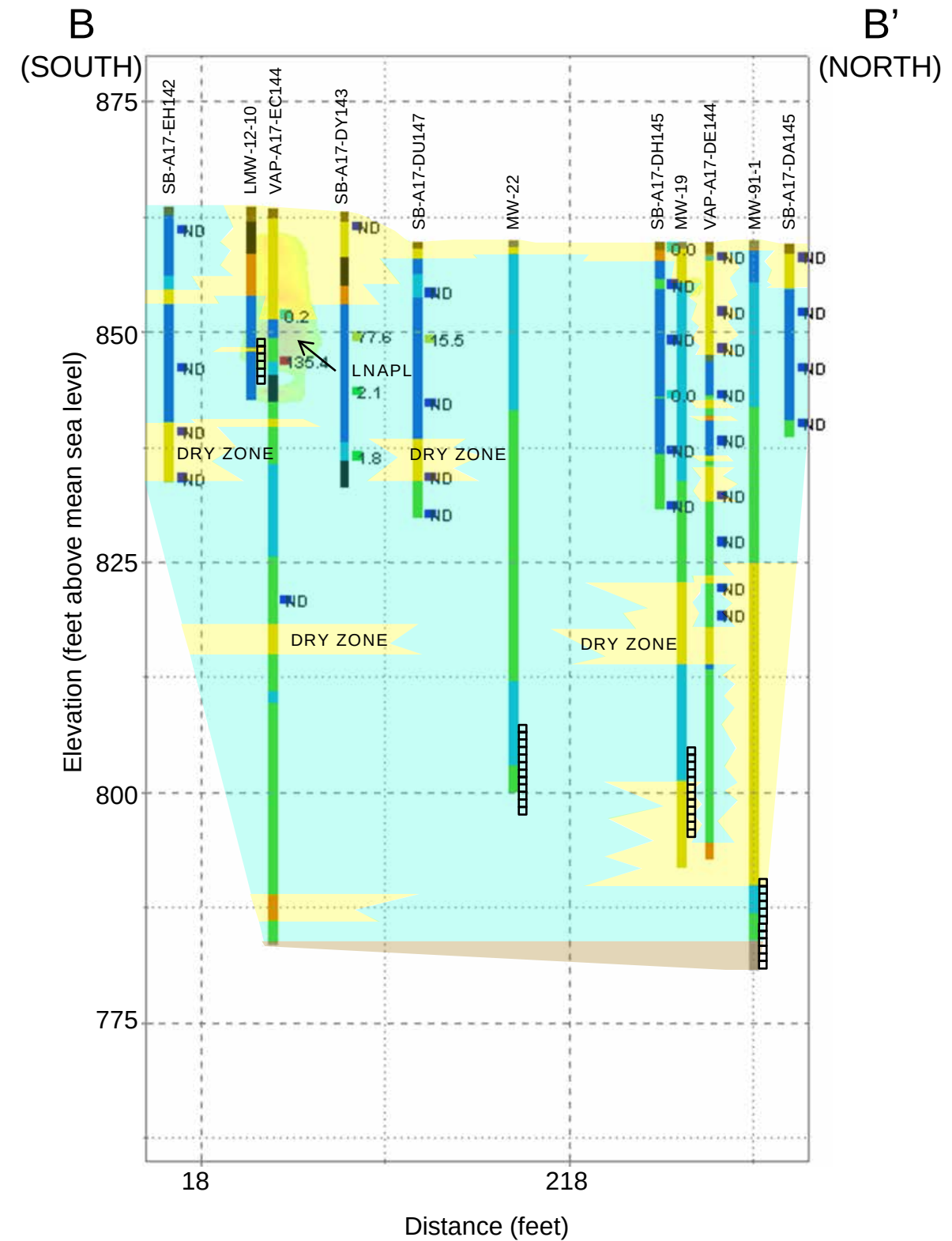
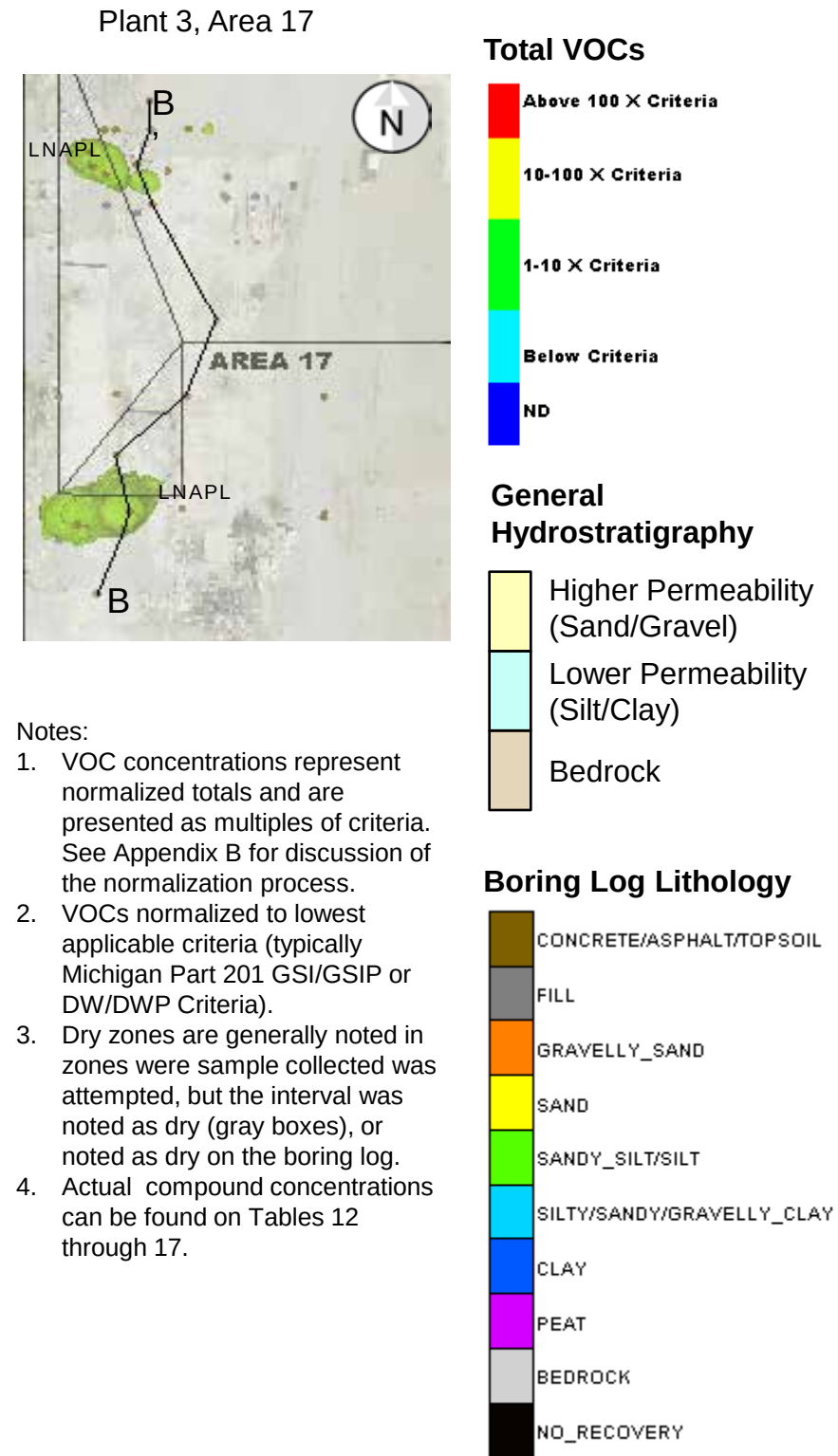
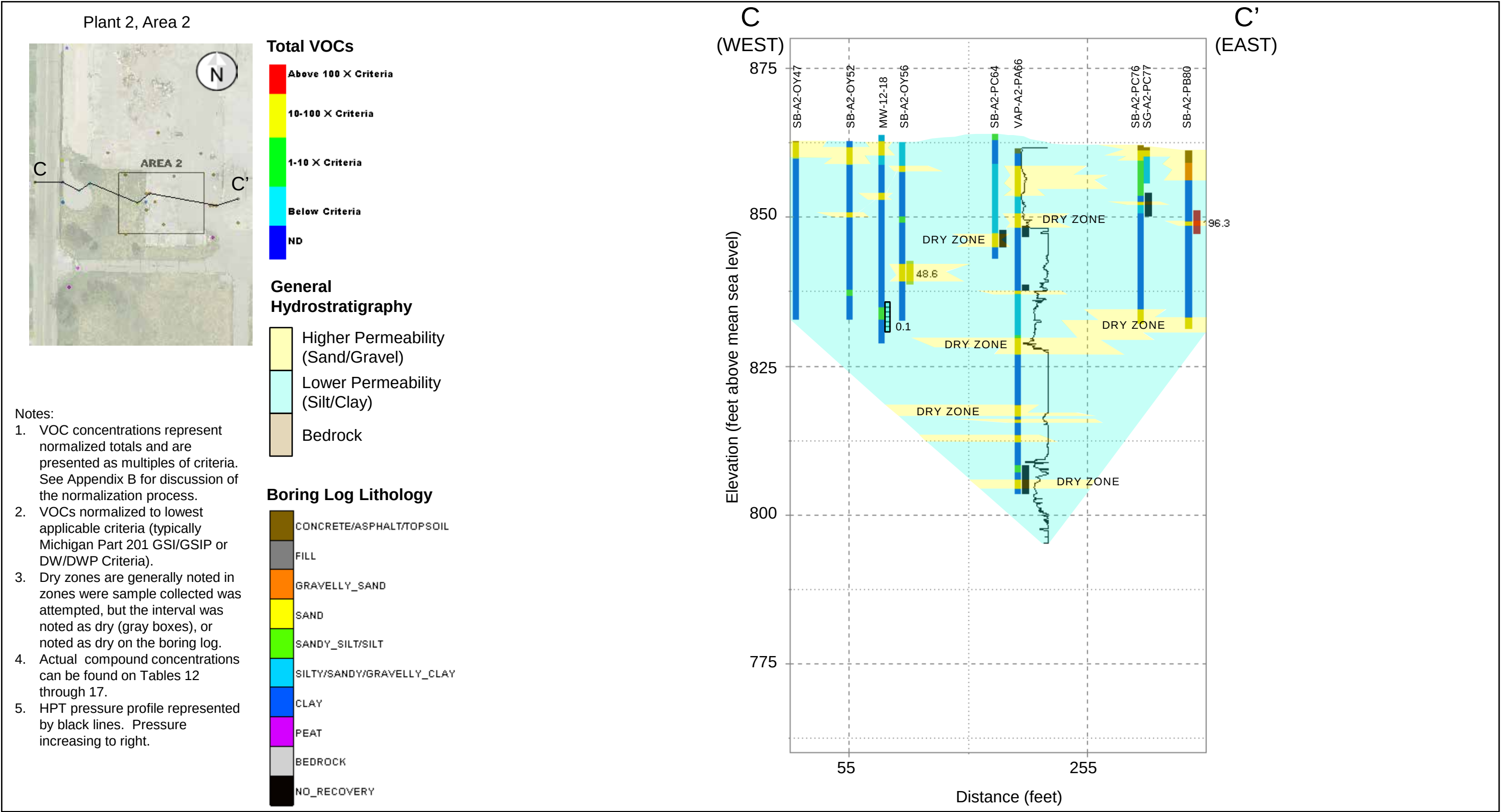
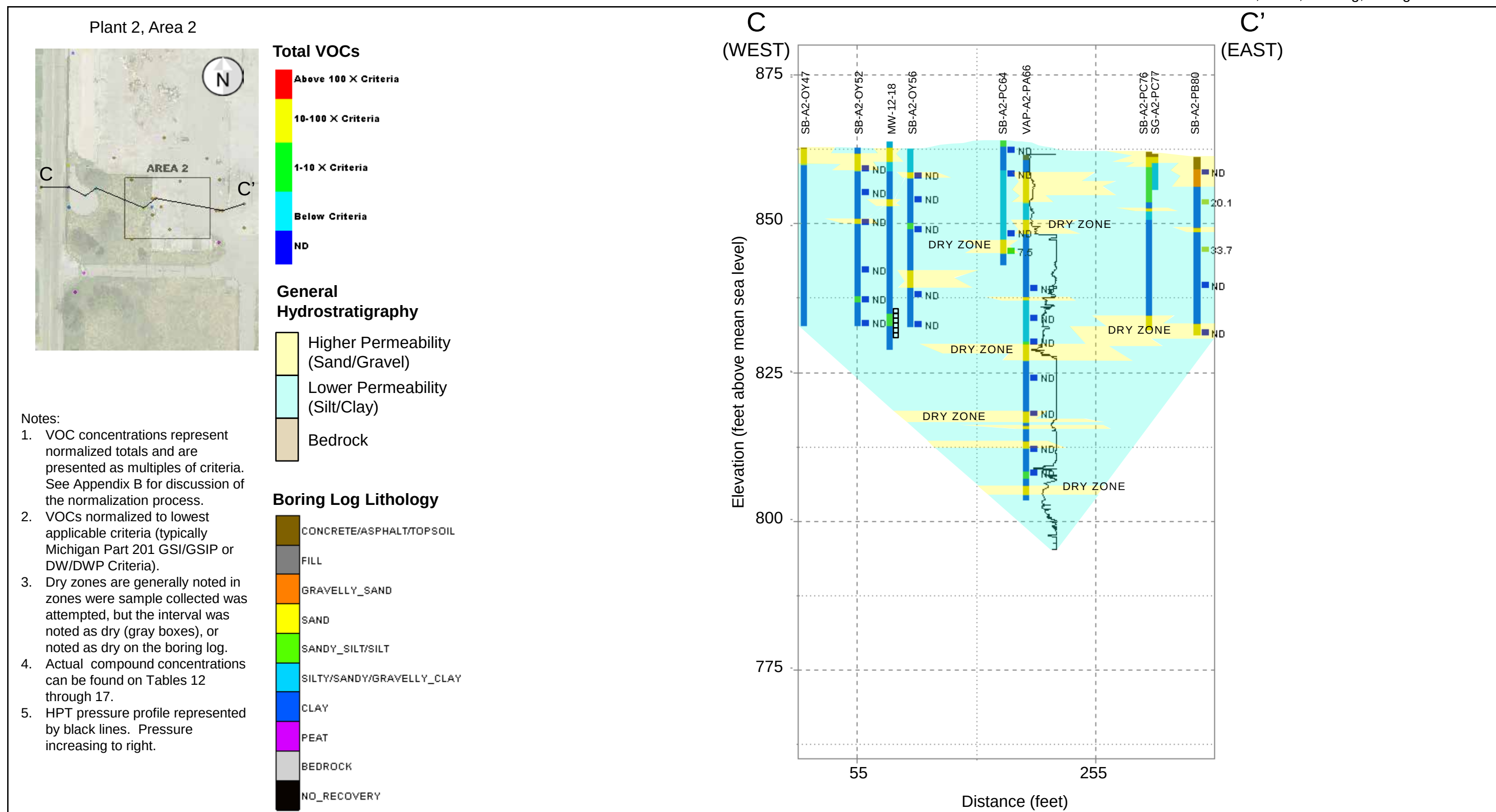


Figure C-6
Plant 2, Area 2 Cross Section
(Groundwater)
RACER Trust
Plants 2, 3 & 6, Lansing, Michigan



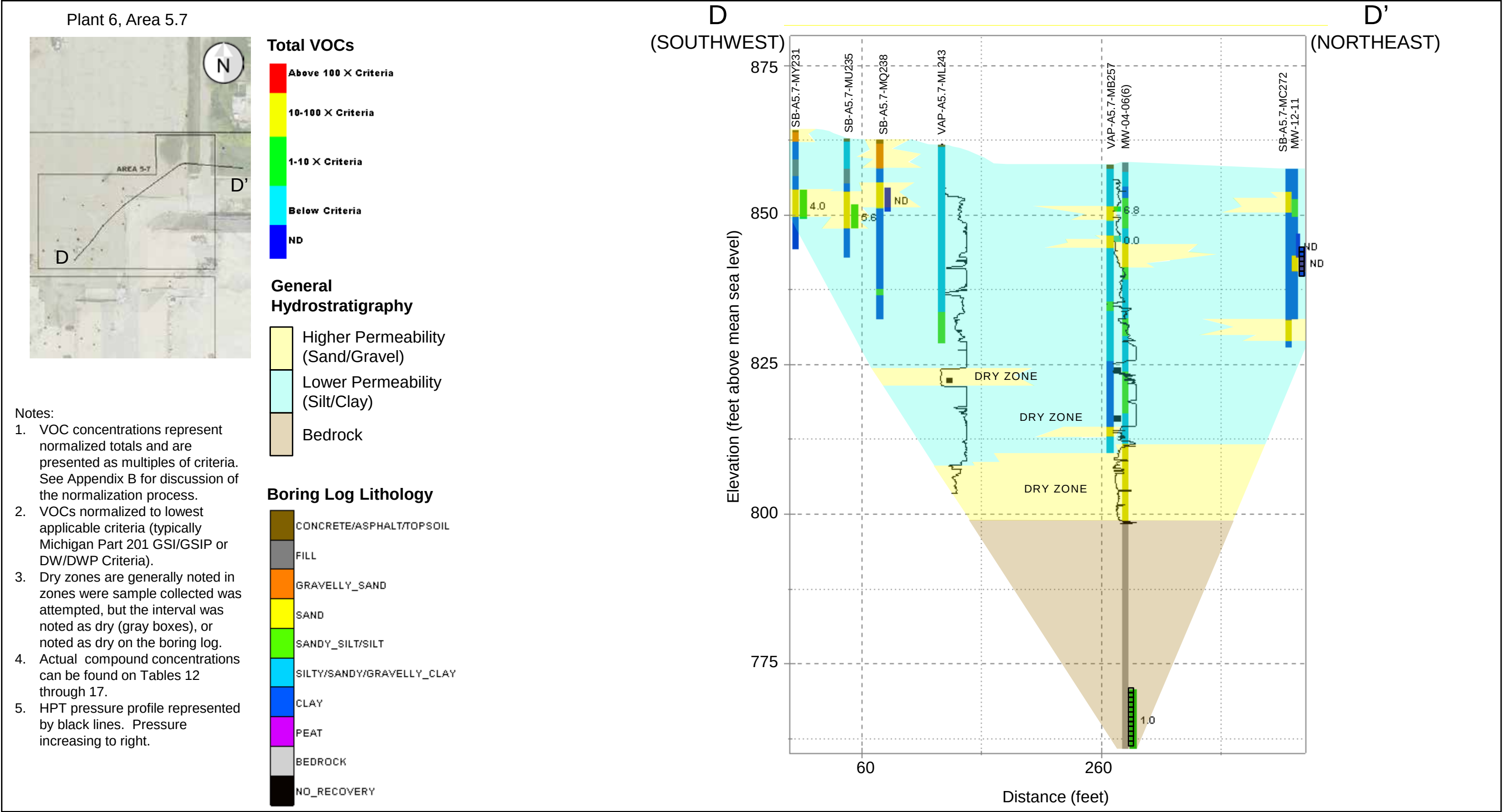
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Source:

Project Number

Figure C-8
Plant 6, Area 5.7 Cross Section
(Groundwater)
RACER Trust
Plants 2, 3 & 6, Lansing, Michigan



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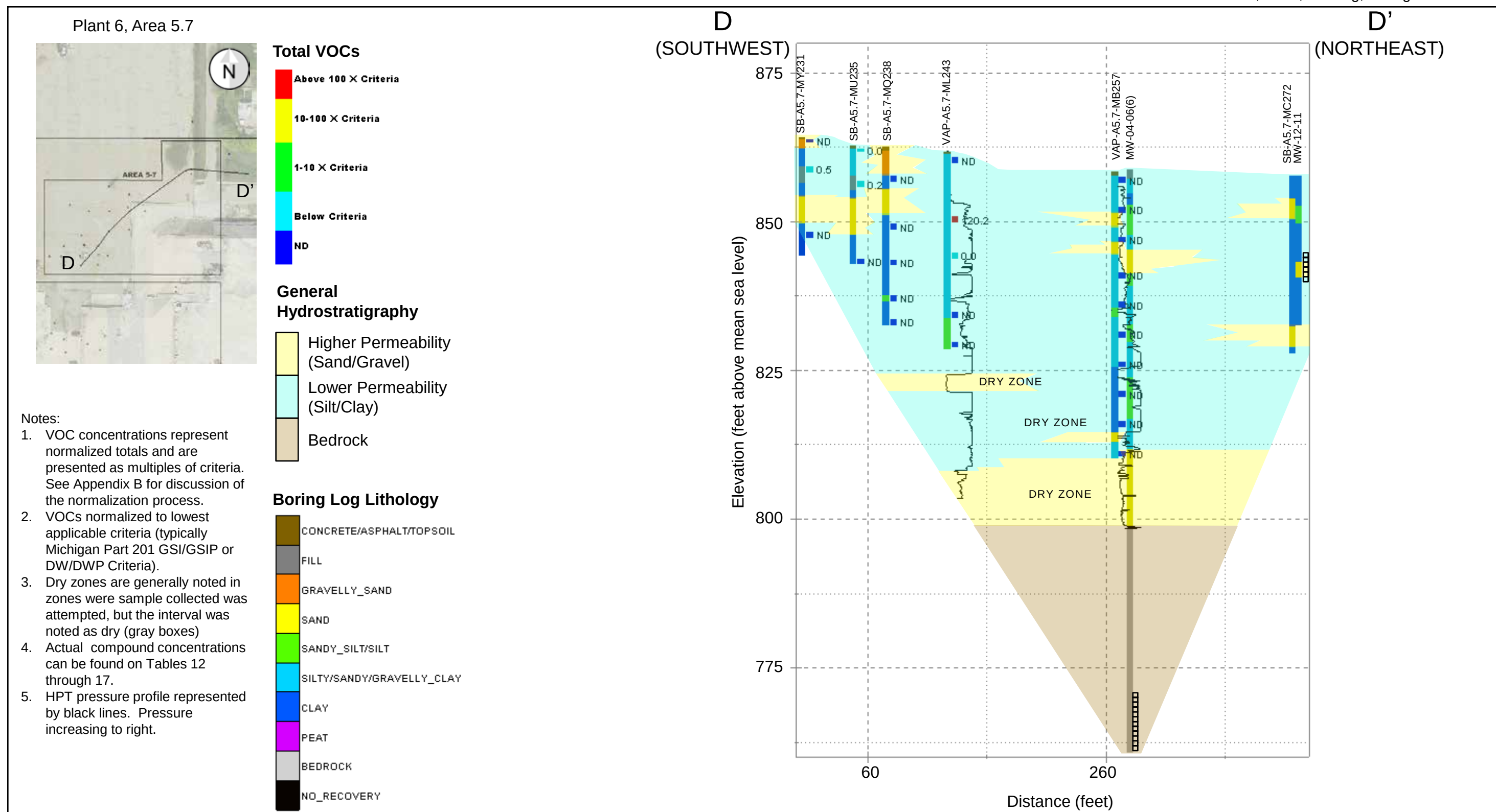
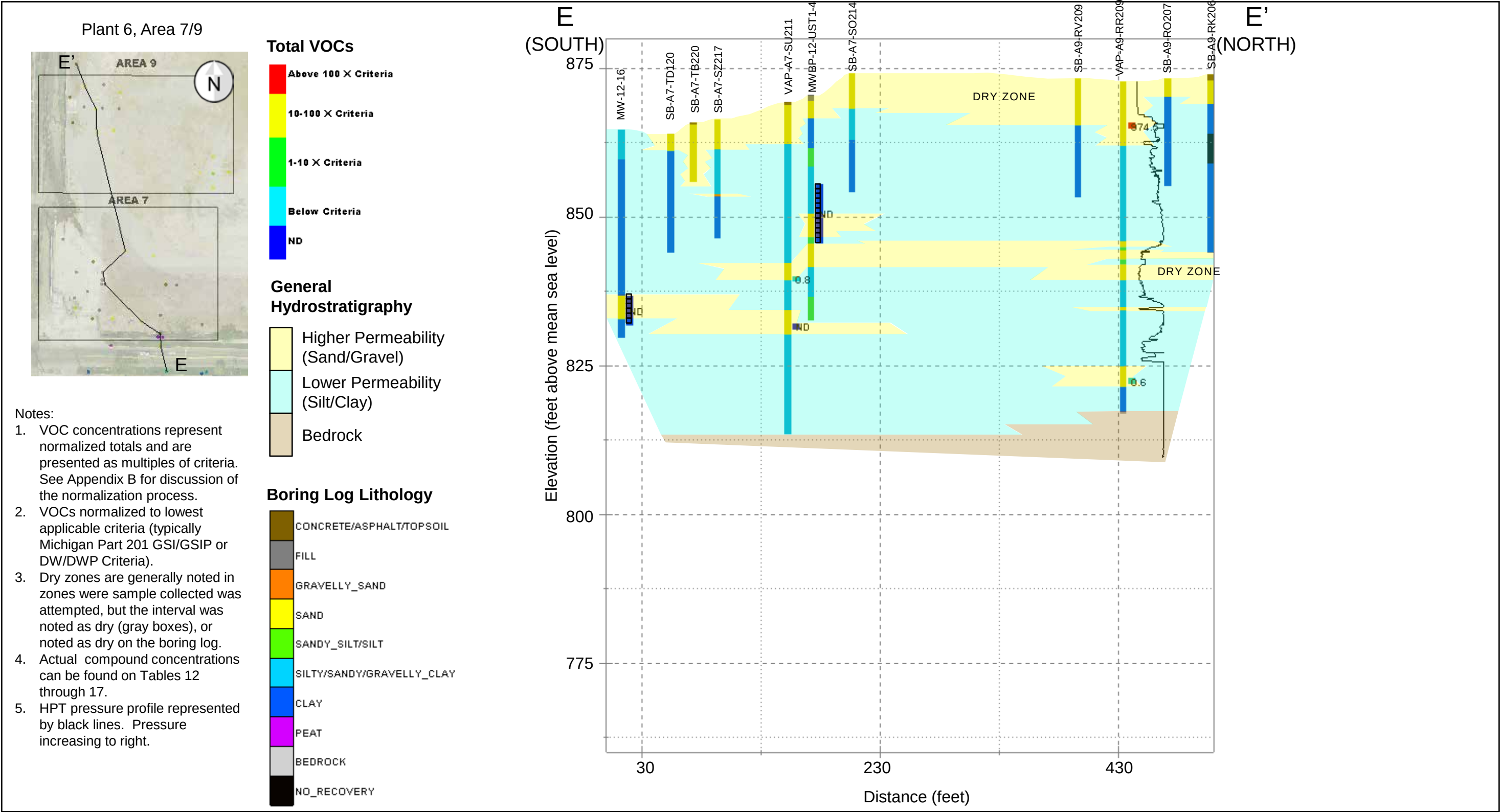


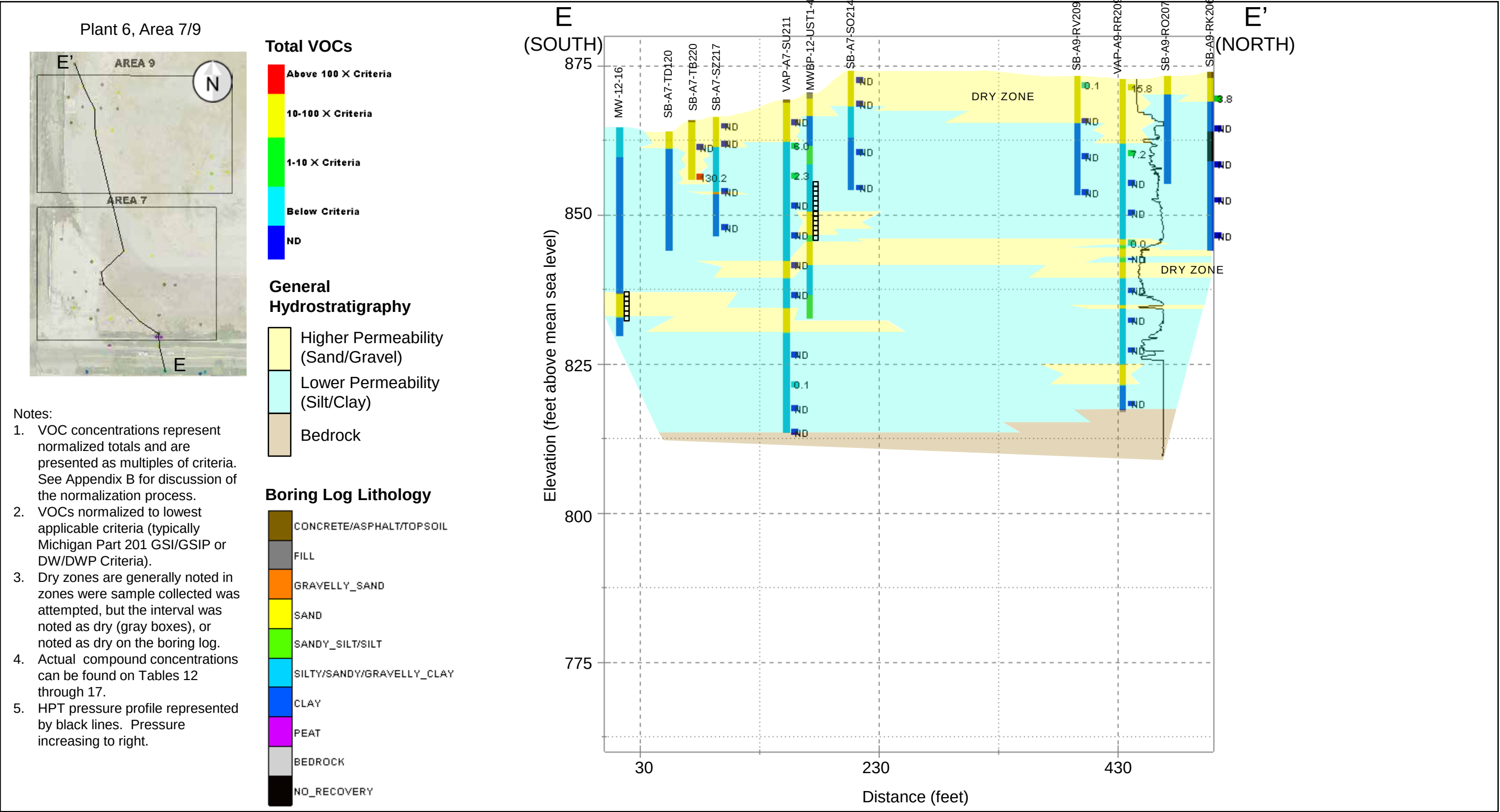
Figure C-10
Plant 6, Area 7/9 Cross Section
(Groundwater)
RACER Trust
Plants 2, 3 & 6, Lansing, Michigan



Source:



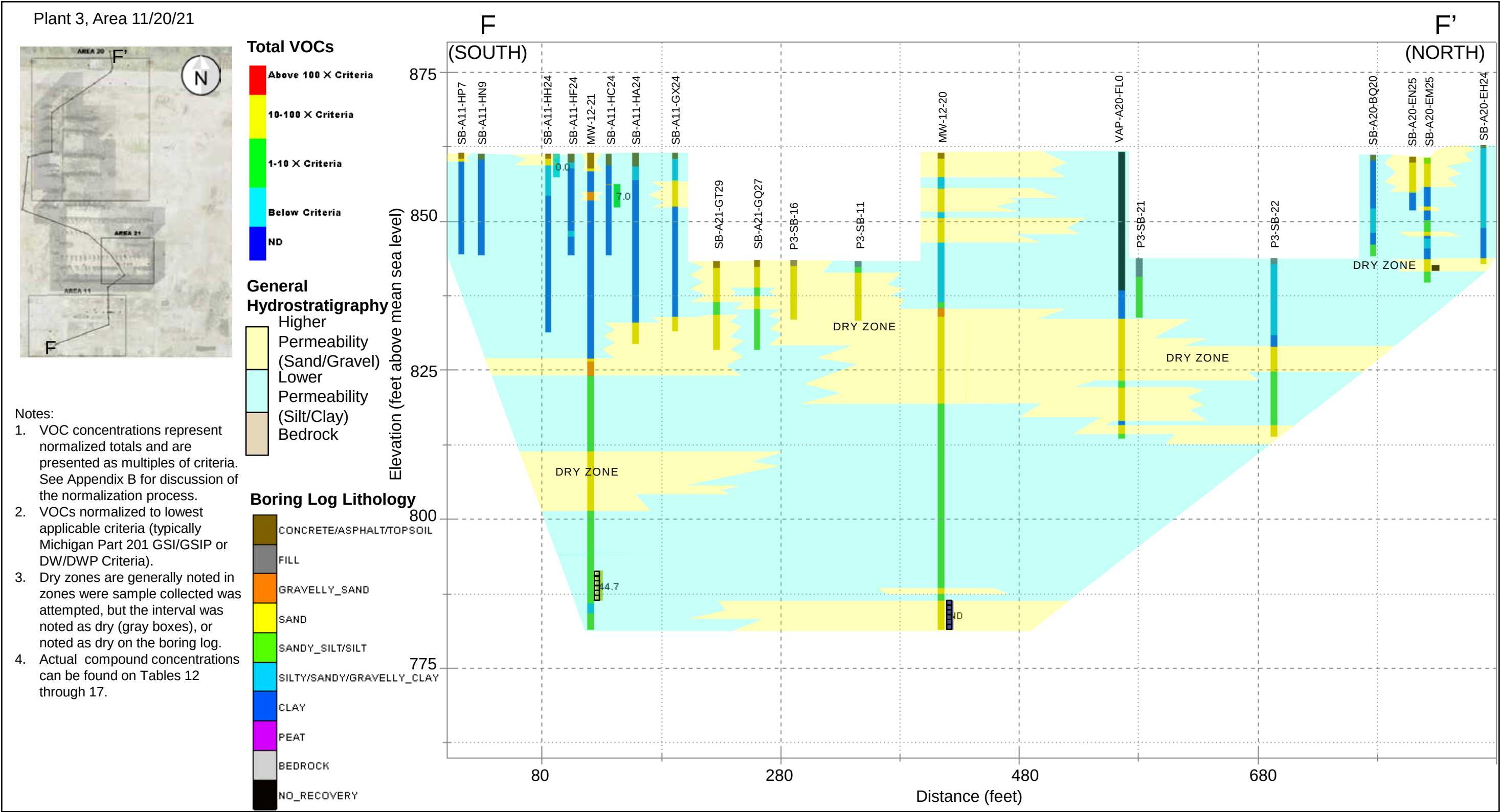
Figure C-11
Plant 6, Area 7/9 Cross Section
(Soil)
RACER Trust
Plants 2, 3 & 6, Lansing, Michigan



Source:

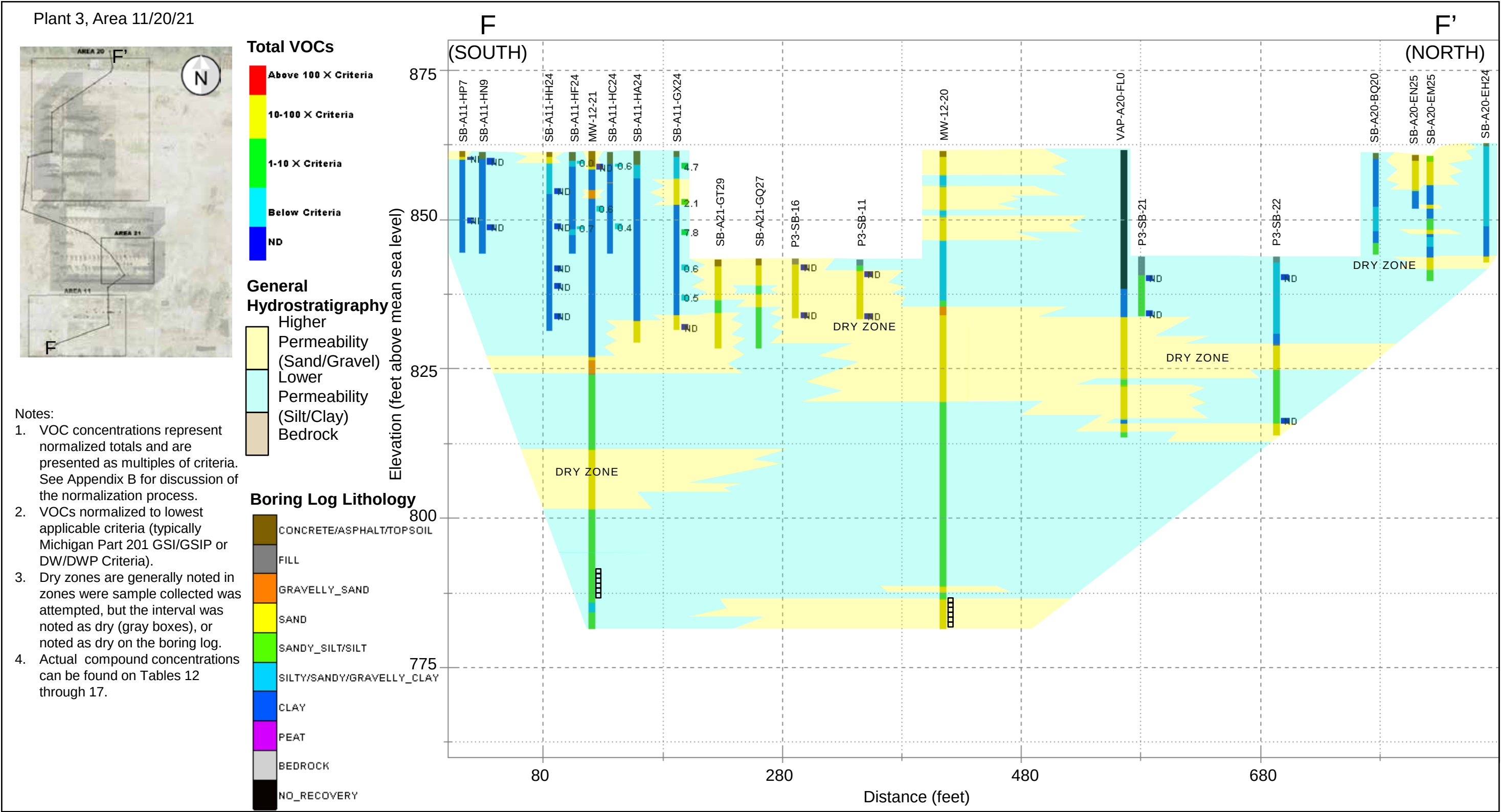


Figure C-12
Plant 3, Area 11/20/21 Cross Section
(Groundwater)
RACER Trust
Plants 2, 3 & 6, Lansing, Michigan



Source:

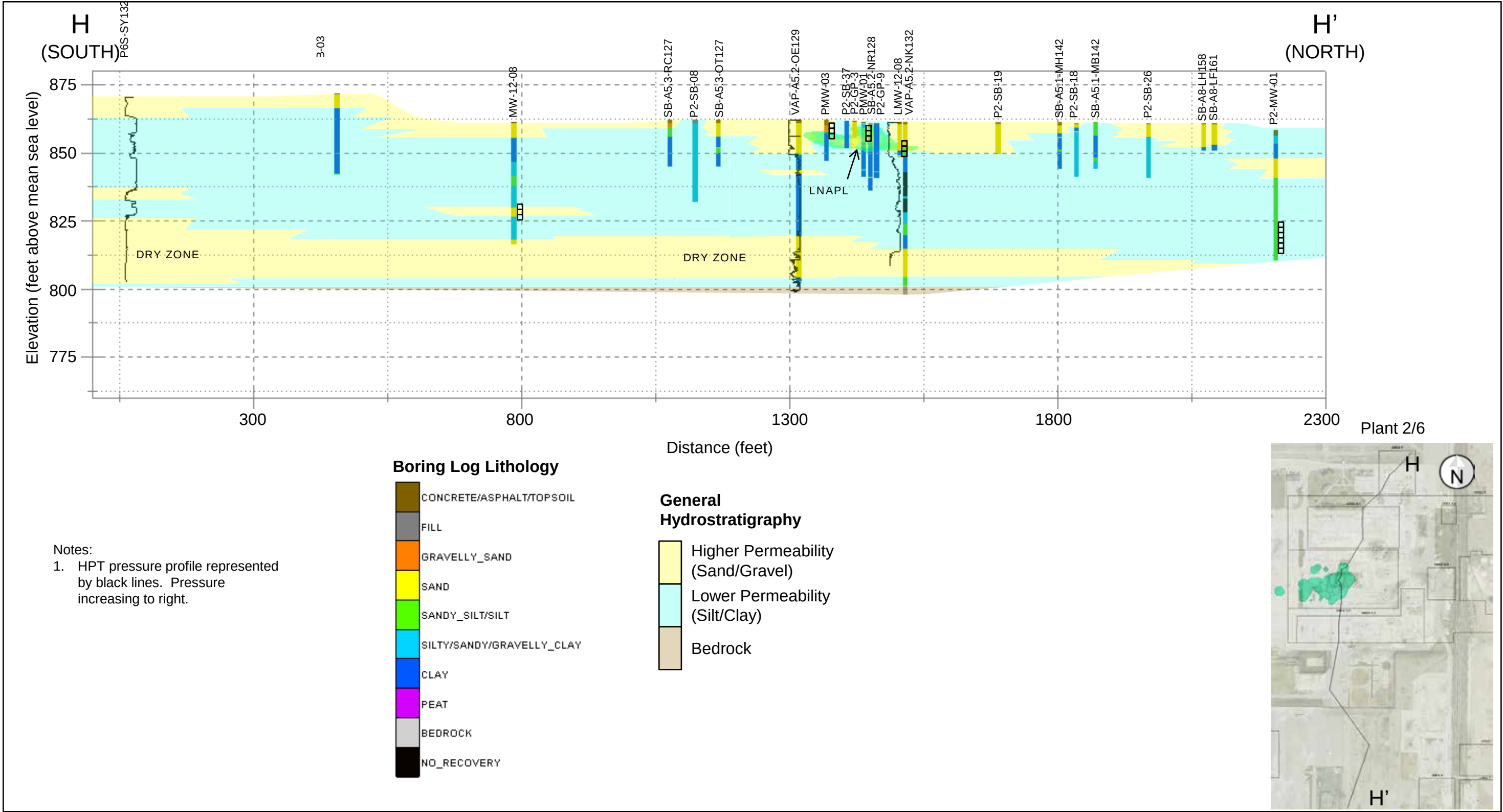
Figure C-13
Plant 3, Area 11/20/21 Cross Section
(Soil)
RACER Trust
Plants 2, 3 & 6, Lansing, Michigan



Source:



Figure C-15
Plant 2/6 Cross Section
(South – North)
RACER Trust
Plants 2, 3 & 6, Lansing, Michigan



Source:

Project Number

Figure C-16
Plant 3, Area 14/17 Cross Section
(Groundwater)
RACER Trust
Plants 2, 3 & 6, Lansing, Michigan

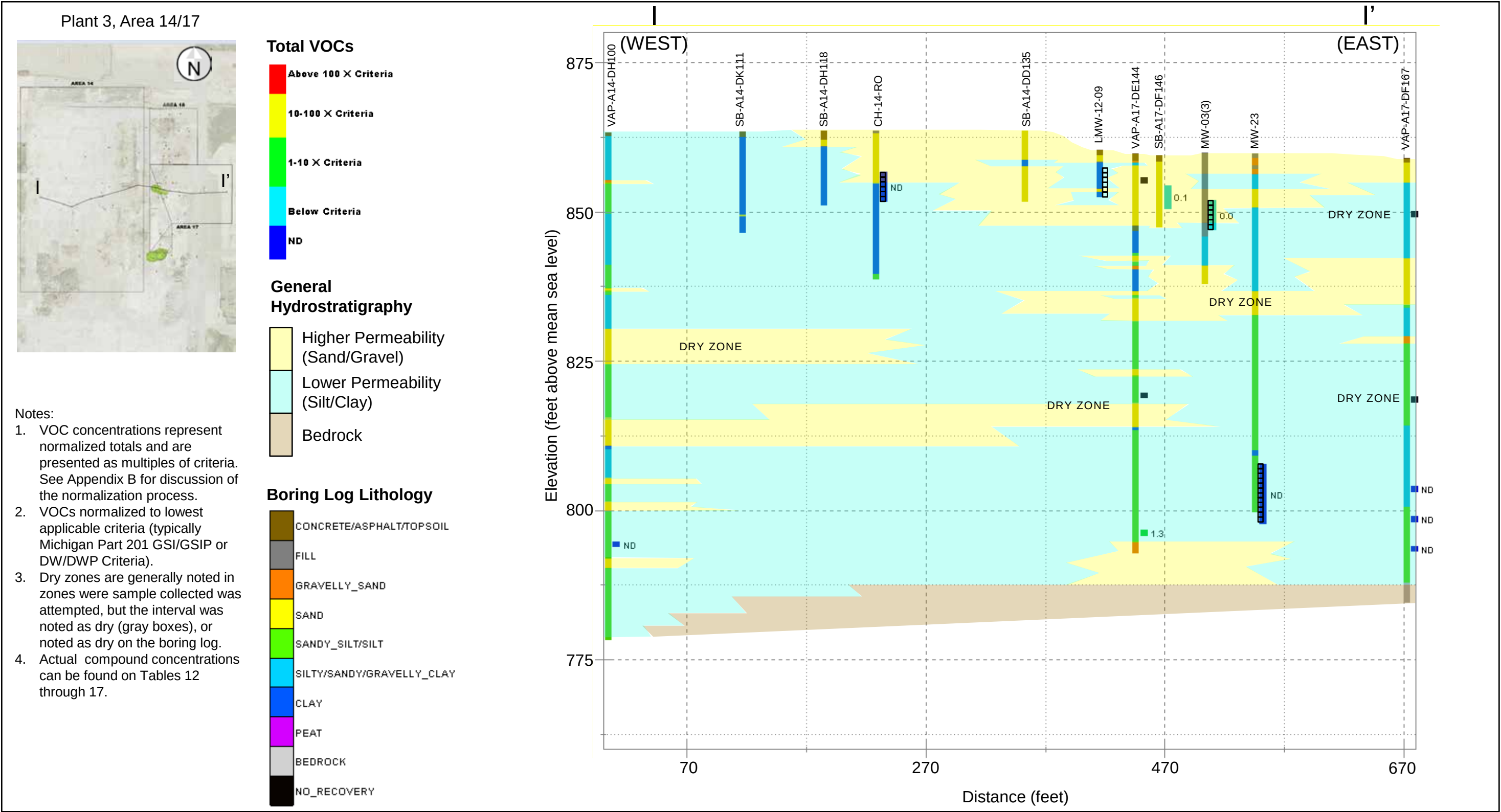
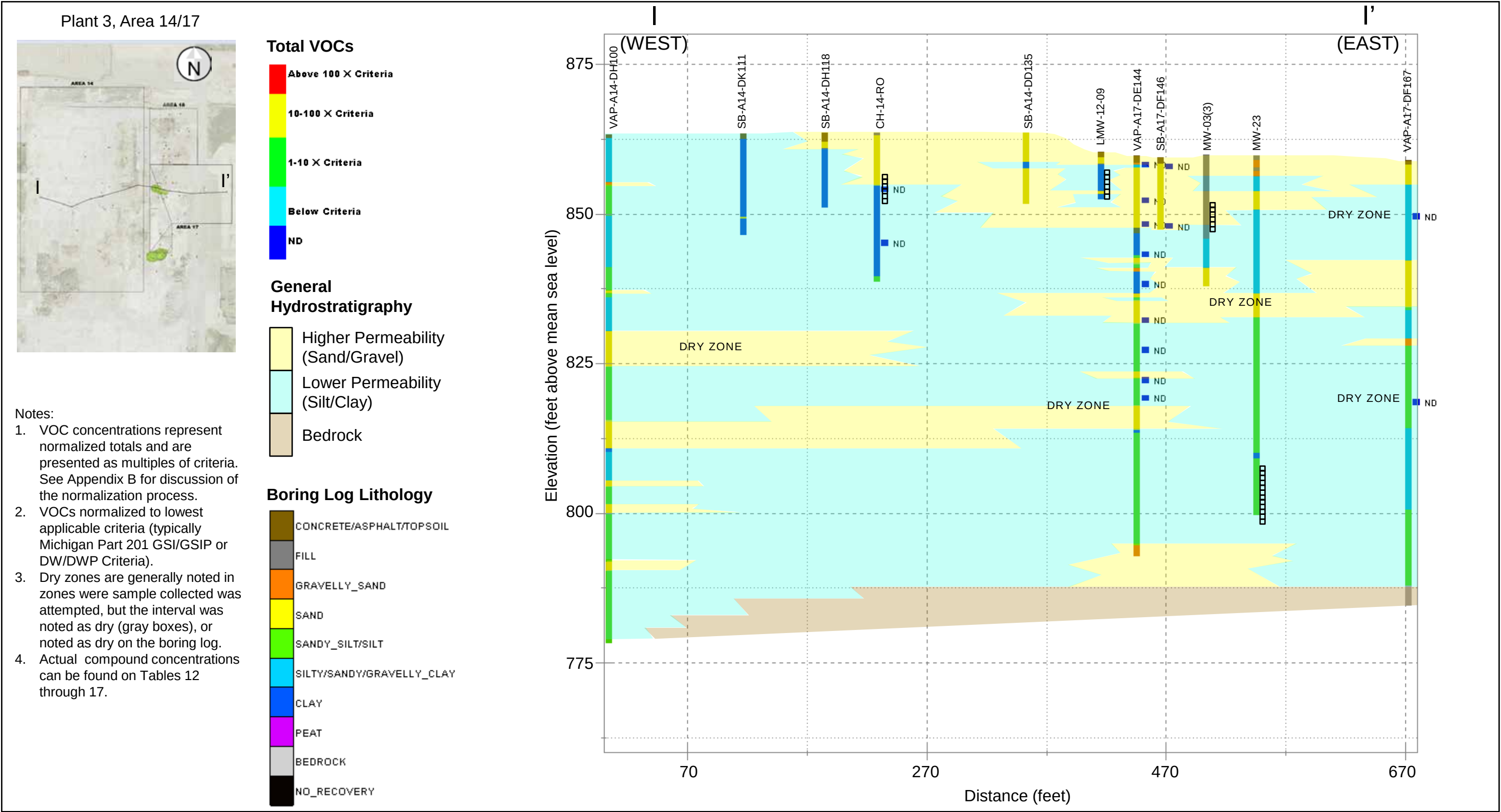




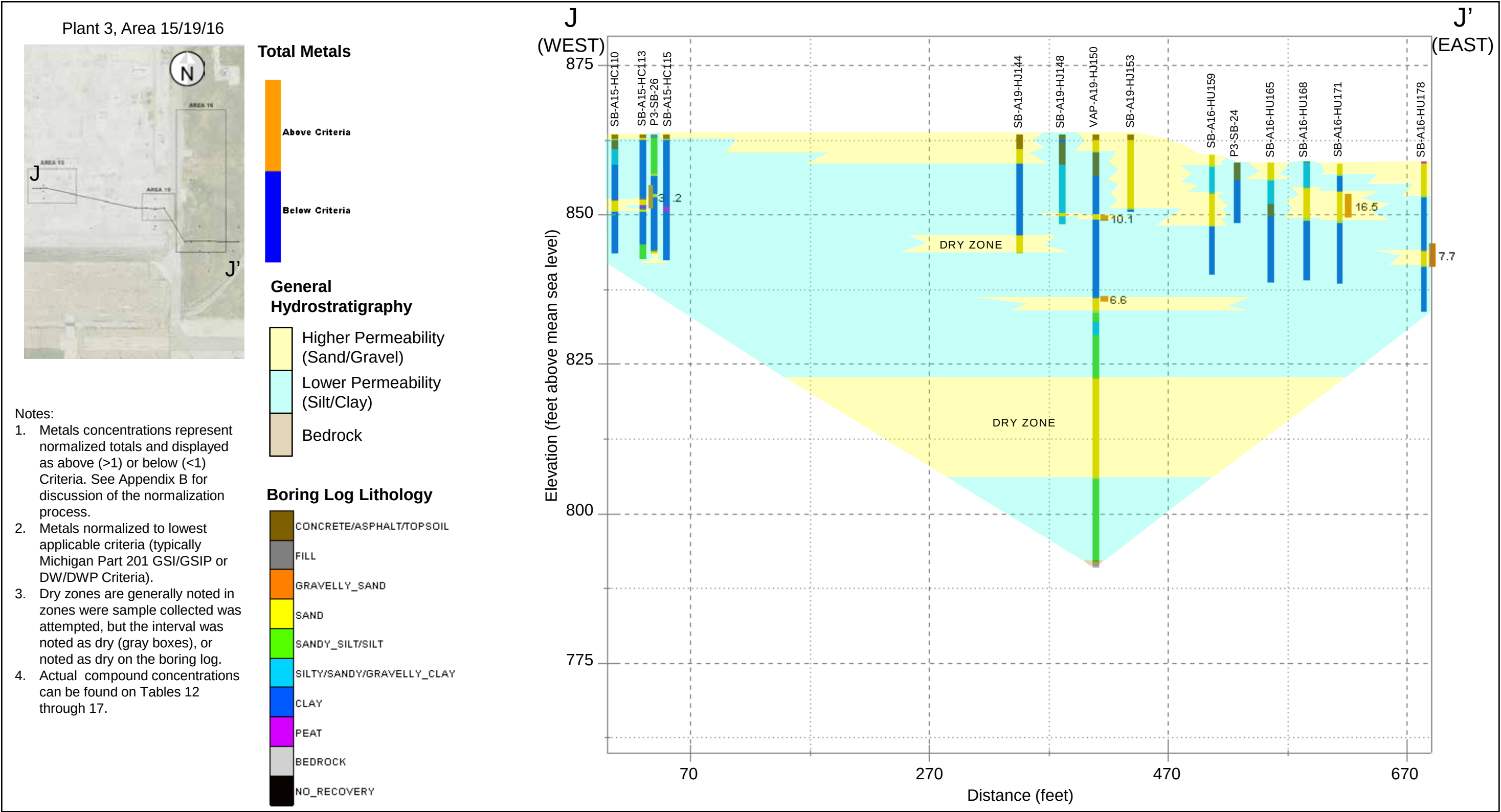
Figure C-17
Plant 3, Area 14/17 Cross Section
(Soil)
RACER Trust
Plants 2, 3 & 6, Lansing, Michigan



Source:



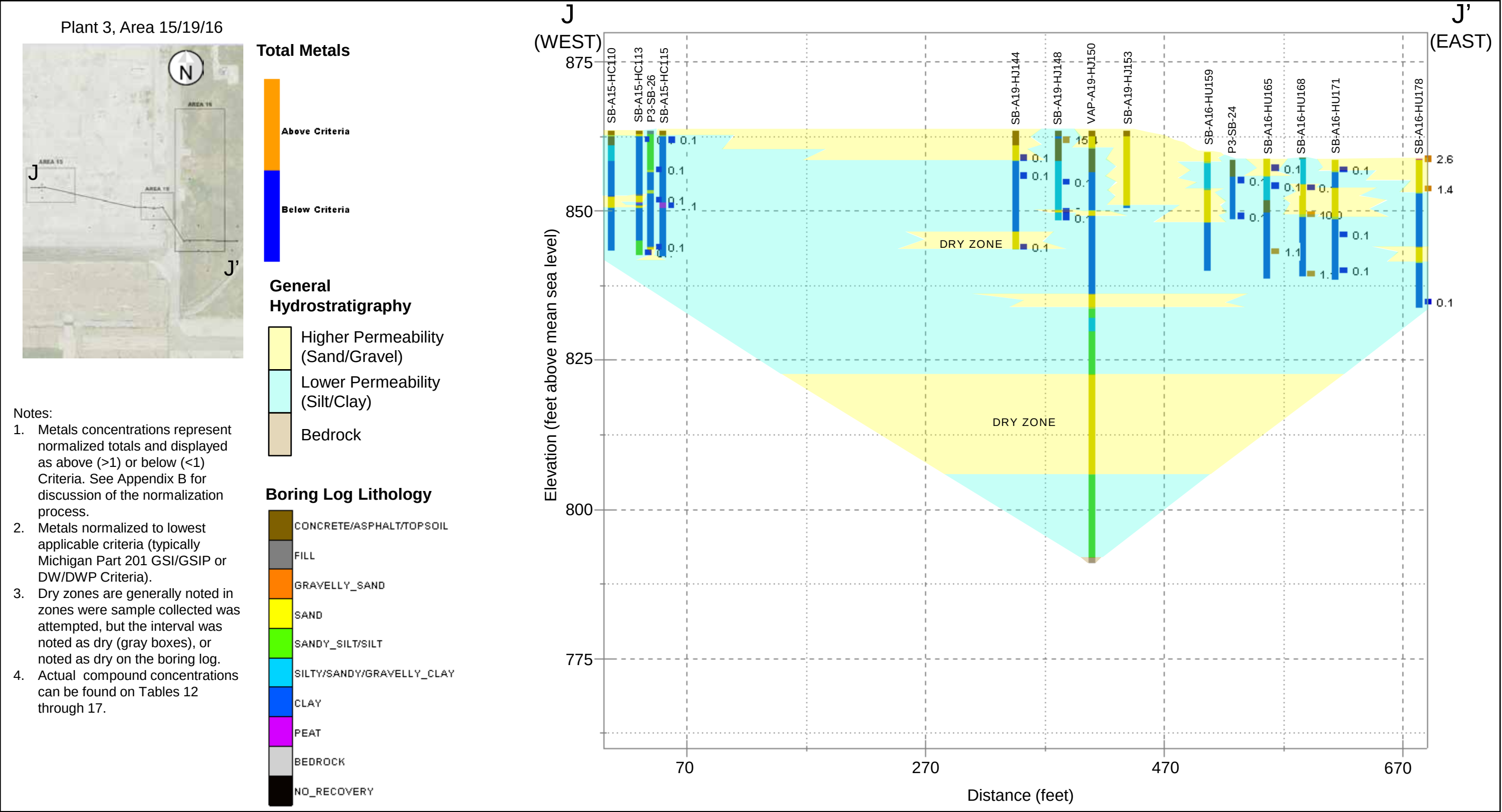
Figure C-18
Plant 3, Area 15/19/16 Cross Section
(Groundwater/Metals)
RACER Trust
Plants 2, 3 & 6, Lansing, Michigan



Source:



Figure C-19
Plant 3, Area 15/19/16 Cross Section
(Soil/Metals)
RACER Trust
Plants 2, 3 & 6, Lansing, Michigan



Source:



Appendix D 1

2011 - Soil Boring Logs

Date Start/Finish: 9/8/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: B-2-RO Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	204.8	×		(0-0.5) ASPHALT	
					109.3			(0.5-12) SAND, fine, trace small to medium pebbles, subround; well sorted; moist; dark gray (10YR 3/1) NOTE: strong odor.	
					25.1				
-5	-5	2	(3-8)	3	24.4				
					10.2				
					5.1				
					1.3				
-10	-10	3	(8-13)	4	0.1				
					0.8			(12-20) CLAY, and silt, medium plasticity; trace small to large pebbles, subround; dry to moist; medium stiff to stiff; gray (10YR 5/1).	
					0.8				
-15	-15	4	(13-18)	5					

Borehole
backfilled with
bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered.
No staining observed.
Poor recovery 0-8' bgs.

Date Start/Finish: 9/8/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: B-7-RO Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	1.5			(0-0.5) ASPHALT	
					3.1	×		(0.5-13) SAND, fine, well sorted, dry to moist; yellowish brown (10YR 4/6) NOTE: fill.	
					8.1				
					6.3				
-5	-5	2	(3-8)	4	1.8			NOTE: odor, color change to gray (10YR 5/1) to dark gray (10YR 3/1) at 6' bgs.	
					8.3				
					1.9				
					5.6				
					3.2				
-10	-10	3	(8-13)	3.5	1.7				
					2.3				
					4.9	×			
					33.1			(13-14.5) CONCRETE	
					13.3			(14.5-20) CLAY, and silt, medium plasticity; trace small to large pebbles, subround; dry; medium stiff to stiff; gray (10YR 5/1).	
-15	-15				11.8				

Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered.
 No staining observed.
 Shake test negative 12-13' bgs.

Date Start/Finish: 9/8/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: B-7-RO Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
20 -20	4	(13-20)	7	2.4 1.1 0.7 0.8 0.6	X		End of boring at 20' bgs	
25 -25								
30 -30								
35 -35								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No staining observed. Shake test negative 12-13' bgs.
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Date Start/Finish: 7/20/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 48' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-MW-1 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
20	-20	4	(18-23)	4.5	7.6			(17.5-30) SILT, low plasticity; trace sand, little clay, trace small to very large pebbles, subround to subangular; very dark grayish brown (10YR 3/2).	
					10.9				
					14.1				
25	-25	5	(23-28)	5	1.5				
					4.7				
					7.5				
30	-30	6	(28-33)	4.5	3.3			(30-48) SILT, low plasticity; trace sand, little clay, trace small to very large pebble, subround to subangular; moist to wet; very dark grayish brown (10YR 3/2).	
					1.8				
					0.0				
					0.0				
					0.0				

Remarks: BGS = Below ground surface

Hand cleared and vaxcavated to 5' bgs
Groundwater encountered at 33.91' bgs
No odor or staining observed



Date Start/Finish: 7/20/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 48' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-MW-1 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
38	38	7	(33-38)	5	0.1				
					0.2				
					0.1				
					0.0				
40	-40				0.0				
		8	(38-43)	NA	0.0				
					0.0				
					0.0				
45	-45				0.0				
		9	(43-48)	NA	0.0				
					2.3				
					0.3				
								End of boring at 48' bgs	
50	-50								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Hand cleared and vaxcavated to 5' bgs Groundwater encountered at 33.91' bgs No odor or staining observed
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Date Start/Finish: 7/22/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 43' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-MW-2 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-5)	0	NA	X		(0-0.5) Asphalt (0.5-5) No recovery, vaxcavated.	 Sand pack (0-1' bgs)
5	-5	2	(5-8)	3	0.0 0.6 0.1			(5-10) CLAY, medium plasticity; some silt, trace sand, trace small to very large pebbles, subrounded to subangular; moist; stiff; mottled; yellowish brown (10YR 5/6).	
10	-10	3	(8-13)	5	0.0 0.0 0.1 0.0 0.0			(10-24) CLAY, medium plasticity; little silt, trace small to medium pebbles, trace very large pebbles, subrounded to subangular; moist to dry; stiff; dark gray (10YR 4/1).	
15	-15	4	(13-18)	5	0.3 0.3 0.4				 Bentonite (1-29' bgs)

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Hand cleared and vaxcavated to 5' bgs Groundwater encountered at 31' bgs No odor or staining observed
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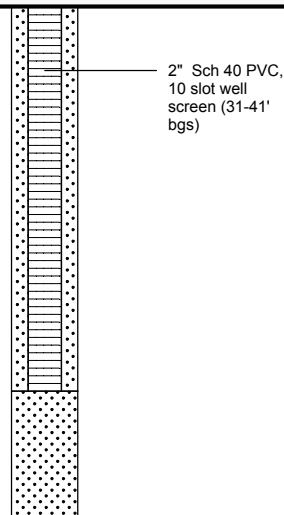
Date Start/Finish: 7/22/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 43' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-MW-2 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
20	-20	5	(18-23)	5	0.9				
					0.8				
					0.1				
					0.4				
					0.5				
					0.8				
					0.6				
					0.4				
25	-25	6	(23-28)	5	0.1			(24-29) CLAY, medium plasticity; little silt, trace small to medium pebbles, trace very large pebbles, subrounded to subangular; dry to moist; stiff; dark gray (10YR 4/1).	2" Sch 40 PVC riser (0-31' bgs)
					0.0				
					0.5				
					0.7				
					0.1			NOTE: change to higher plasticity, medium stiff to soft at 28' bgs.	
30	-30	7	(28-33)	4.5	1.8			(29-31) SAND, very fine to fine, subrounded to subangular; little silt; well sorted; moist; light brownish gray (10YR 6/2).	
					6.8				
					11.8			(31-43) CLAY, and silt, medium to high plasticity; wet; very soft; gray (10YR 5/1).	
								NOTE: poor recovery from 33-38' bgs.	Sand pack (29-43' bgs)

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Hand cleared and vaxcavated to 5' bgs Groundwater encountered at 31' bgs No odor or staining observed
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Date Start/Finish: 7/22/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 43' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-MW-2 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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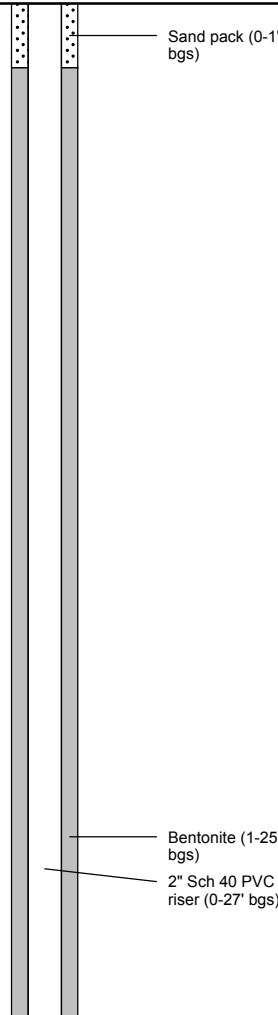
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
38	-38	8	(33-38)	0	NA				
40	-40	9	(38-43)	5	0.0				
					0.1				
					0.2				
					0.1				
					0.3				
45	-45							End of boring at 43' bgs	
50	-50								



Remarks: BGS = Below ground surface

 Hand cleared and vaxcavated to 5' bgs
 Groundwater encountered at 31' bgs
 No odor or staining observed

Date Start/Finish: 7/19/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 48' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-MW-3 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-5)	0	5.8			(0-2) TOPSOIL, some sand and silt, fine grained, trace granules, subrounded; well sorted; dry; brown (10YR 4/3) NOTE: trace roots.	
					NA			(2-5) No descriptions, air knifed/vaxcavated	
5	-5	2	(5-8)	3	6.3 4.8 5.0 4.3			(5-8) CLAY, medium to high plasticity; trace sand lenses, trace silt, trace small to very large pebbles, subrounded; moist; medium stiff; mottled; dark grayish brown (10YR 4/2).	
10	-10	3	(8-13)	5	3.7 0.6 6.0 6.9 10.1			(8-27.5) CLAY, medium to high plasticity; trace sand, some silt, trace to some small to large pebbles, subrounded; moist; medium stiff to soft, gray(10YR 5/1); mottled.	
15	-15	4	(13-18)	5	1.0 1.5 1.3				

	Remarks: BGS = Below ground surface Hand cleared to 5' bgs Groundwater encountered at 32' bgs No odor or staining observed
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Date Start/Finish: 7/19/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 48' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-MW-3 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
20	-20	5	(18-23)	5	3.4				
					1.3				
					7.8				
					1.9				
					18.4				
					6.1				
25	-25	6	(23-28)	5	2.5				
					5.4				
					4.8				
					10.4				
					2.8			(27.5-32) CLAY, medium to high plasticity; clay, some sand, trace silt, trace small to very large pebbles, subrounded; moist to wet; medium stiff to soft; very dark gray (10YR 3/1).	
30	-30	7	(28-33)	2.5	7.2				
					6.9				
					3.5			(32-48) CLAY, medium plasticity; some silt, trace sand, trace to some small to medium pebbles, subrounded; wet; stiff to medium stiff; very dark gray (10YR 3/1).	



Remarks: BGS = Below ground surface

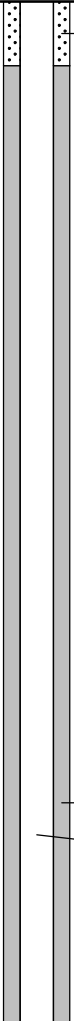
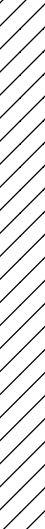
Hand cleared to 5' bgs
Groundwater encountered at 32' bgs
No odor or staining observed

Date Start/Finish: 7/19/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 48' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-MW-3 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
38	38	8	(33-38)	5	7.4				
					7.8				
					10.4				
40	-40	9	(38-43)	5	7.8				
					6.2				
					5.4				
45	-45	10	(43-48)	5	8.8				
					4.4				
					5.2				
50	-50							End of boring at 48' bgs	

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Hand cleared to 5' bgs Groundwater encountered at 32' bgs No odor or staining observed
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Date Start/Finish: 7/21/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 38' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-MW-4 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-5)	0	0.0		 (0-1) COBBLES, small		 Sand pack (0-1' bgs)
					0.2		 (1-3) TOPSOIL, sand, very fine to fine, some granules, trace small pebbles to very large pebbles, subrounded to subangular; trace silt, poorly sorted; dry; dark yellowish brown (10YR 3/4).		
					NA		(3-5) NA		
					NA				
-5	-5	2	(5-8)	4	0.1		 (5-6) SAND, very fine to fine, trace granules, trace small to very large pebbles, subrounded to subangular; poorly sorted; moist; dark yellowish brown (10YR 4/6).		
					0.2		 (6-7) SILT, trace sand, very fine, some clay, trace granules, subrounded to subangular; moist; very dark brown (10YR 2/2).		
					0.5		 (7-7.5) SAND, fine, trace granules, subrounded to subangular; little to some silt; well sorted; wet to moist; very dark grayish brown (10YR 3/2).		
					3.6		 (7.5-25) CLAY, medium to low plasticity; some silt, trace small to very large pebbles, subrounded to subangular; moist; stiff; gray (10YR 5/1).		
-10	-10				0.8				
					0.0				
		3	(8-18)	8.5	0.3				Bentonite (1-24' bgs) 2" Sch 40 PVC riser (0-26' bgs)
-15	-15				0.5				

	Remarks: BGS = Below ground surface Hand cleared to 5' bgs Groundwater encountered at 7' bgs No odor or staining observed
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Date Start/Finish: 7/21/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 38' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-MW-4 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
20	-20				0.0				
		4	(18-28)	10	0.5				
					0.0				
					0.6				
					0.1				
25	-25				0.5			(25-27) SAND, fine, subrounded to subangular; some silt; well sorted; wet; dark grayish brown (10YR 4/2).	
					0.8				
					0.7			(27-38) CLAY, and silt, medium to high plasticity; wet; soft to very soft; gray (10YR 5/1).	
30	-30				0.8				
					0.0				
					0.6				
					0.0				
		5	(28-38)	9	0.2				
					0.8				
					0.4				



Remarks: BGS = Below ground surface
Hand cleared to 5' bgs
Groundwater encountered at 7' bgs
No odor or staining observed

Date Start/Finish: 9/6/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-1 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	2	0.0			(0-1) CONCRETE	
					0.0			(1-3) CLAY, little silt, medium to high plasticity; trace small to large pebbles, subround; dry; stiff; brown (10YR 4/3).	
					0.4	X			
								(3-5) SAND, fine, some clay, well sorted; moist to wet; brown (10YR 4/3).	
					0.3				
					0.1				
-5	-5	2	(3-8)	3.5	0.7			(5-27) SILT, and clay, high plasticity; trace small to large pebbles, subround; moist; medium stiff; gray (10YR 5/1).	
					0.5				
					0.0				
					0.0				
					0.0				
-10	-10	3	(8-13)	4	0.2				
					1.3				
					1.0				
					0.0				
					0.2				
-15	-15	4	(13-18)	4	0.3				

Borehole
backfilled with
bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 9/6/11-9/7/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-2 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	NA			(0-3) CONCRETE	
					14.0			(3-25) CLAY, some silt, medium to high plasticity; trace small to large pebbles, subround; dry; stiff; gray (10YR 5/1).	
5	-5	2	(3-8)	4	8.3	X			
					5.6				
					6.5				
					1.2				
					3.0				
10	-10	3	(8-13)	5	2.1				
					1.1				
					3.2				
					2.7				
					0.0				
15	-15	4	(13-18)	4	0.1				
					0.2				

Borehole backfilled with bentonite

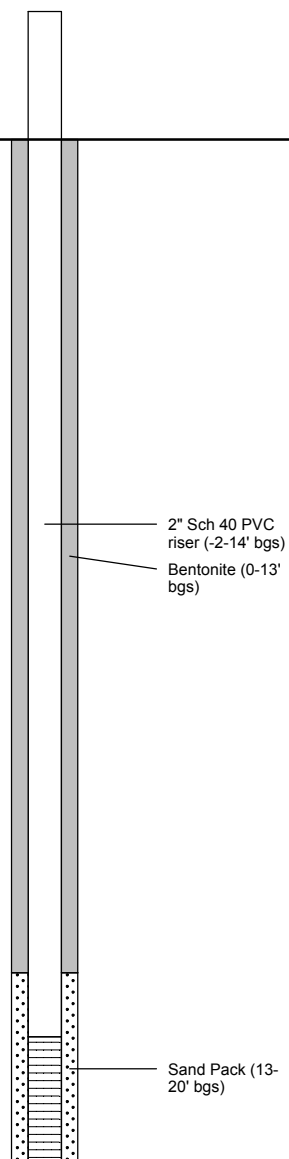


Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 9/8/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-3 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	2.5	0.4			(0-5.5) SAND, fine, trace small to large pebbles, subround; some silt; poorly sorted; dry; brown (10YR 4/3) NOTE: most likely fill.	
					0.3				
					0.6				
					0.3				
-5	-5	2	(3-8)	4	5.9				
					1.1	X		(5.5-15.5) CLAY, little silt, medium plasticity; trace small to large pebbles, subround; dry; stiff; gray (10YR 5/1).	
					8.7				
					2.4				
					2.6				
-10	-10	3	(8-13)	5	1.3				
					0.7				
					1.1				
					1.5				
					2.3				
-15	-15	4	(13-18)	5	1.2	X			
					1.0				

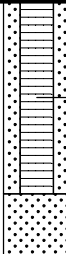


Remarks: BGS = Below ground surface

Groundwater encountered at 15.5' bgs.
 No odor or staining observed.
 Temporary well screen 14-19' bgs.



Date Start/Finish: 9/8/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-3 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
					1.5			(15.5-17.5) SAND, coarse to very coarse, subangular; well sorted; wet; gray (10YR 5/1).	 2" Sch 40, 10 slot well screen (14-19' bgs)
					1.1			(17.5-19) CLAY, some silt, medium to high plasticity; trace small to large pebbles, subround; dry; stiff; gray (10YR 5/1).	
		5	(18-20)	2	2.0			(19-20) SILT, low plasticity; moist; medium stiff to soft; gray (10YR 5/1).	
20	-20				1.0			End of boring at 20' bgs	
25	-25								
30	-30								
35	-35								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater encountered at 15.5' bgs. No odor or staining observed. Temporary well screen 14-19' bgs.
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Date Start/Finish: 9/8/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-4 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	1.9 2.4 2.1			(0-8) SAND, fine to very fine, trace small pebbles, subround; trace silt; well sorted; dry to moist; brown (10YR 4/3).	
					1.7				
					1.4				
5	-5	2	(3-8)	4	2.2			(8-18) CLAY, and silt, medium plasticity; trace small to large pebbles, subround; dry; stiff; gray (10YR 5/1).	Borehole backfilled with bentonite
10	-10	3	(8-13)	4	1.5 1.3 3.0 1.5 1.6				
15	-15	4	(13-18)	5	1.3 1.7 2.0				

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater encountered at 19' bgs. No odor or staining observed.
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Date Start/Finish: 9/8/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-5 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	2.0			(0-4.5) SAND, fine, trace small to large pebbles, subround; trace silt; well sorted; dry to moist; brown (10YR 4/3) NOTE: fill.	
					1.8				
					11.8				
					2.0				
					1.2				
-5	-5	2	(3-8)	4	2.5	X		(4.5-7) CLAY, and silt, high plasticity; moist; medium stiff; dark gray (10YR 3/1).	
					2.4				
					1.3			(7-19) CLAY, and silt, medium plasticity; trace small to large pebbles, subround; dry; stiff; gray (10YR 5/1).	
					2.1				
					2.2				
-10	-10	3	(8-13)	5	2.4				
					2.0				
					2.3				
					1.4				
					1.2				
-15	-15	4	(13-18)	5	1.3				

Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 9/1/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-6 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	2	1.0			(0-2) CONCRETE	
					2.7				
					6.3			(2-8) SAND, fine, subround; well sorted; moist; brown (10YR 4/3).	
					1.3				
5	-5	2	(3-8)	4	100	X			
					85.3				
					112.2				
					1.3			(8-18.5) CLAY, and silt, medium plasticity; trace small to medium pebbles, subround; dry; stiff; gray (10YR 5/1).	
					1.7				
10	-10	3	(8-13)	4.5	2.2				
					1.3				
					1.8				
					1.1				
15	-15	4	(13-18)	4.5	1.7				
					2.3				

2" Sch 40 PVC riser (-2-24' bgs)
Bentonite (0-23' bgs)



Remarks: BGS = Below ground surface

 Groundwater encountered at 26' bgs.
 No odor or staining observed.
 Temporary well screened 24-29' bgs.
 Shake test positive 5-6' bgs.

Date Start/Finish: 9/1/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-6 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
					1.5				
					0.9				
20	-20	5	(18-23)	4.5				(18.5-21) SAND, fine to medium, subround; well sorted; moist; grayish brown (10YR 5/2).	
					3.6				
					1.9			(21-26) SILT, little clay, medium to low plasticity; trace small to medium pebbles, subround; moist; stiff; gray (10YR 5/1).	
					4.5				
					3.3				
25	-25	6	(23-28)	3.5					
					1.0				
					0.7				
					1.9			(26-28) SILT, wet; very soft; gray (10YR 5/1).	
					2.3				
					2.4				
		7	(28-30)	1				(28-29) SAND, very coarse, trace granules, subround; well sorted; wet; gray (10YR 5/1).	
					0.8				
30	-30				0.3			(29-30) CLAY, high plasticity; trace small to large pebbles, subround; dry to moist; stiff; gray (10YR 5/1).	
								End of boring at 30' bgs	

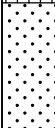
Sand Pack (23-30' bgs)
2" Sch 40, 10 slot well screen (24-29' bgs)



Remarks: BGS = Below ground surface

Groundwater encountered at 26' bgs.
No odor or staining observed.
Temporary well screened 24-29' bgs.
Shake test positive 5-6' bgs.

Date Start/Finish: 9/1/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-7 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	2	1.8			(0-1) CONCRETE	
					2.4			(1-5) SAND, fine, subround; well sorted; moist; yellowish brown (10YR 4/6).	
					1.3				
					5.5				
					5.6				
-5	-5	2	(3-8)	5	2.2			(5-20) SILT, and clay, medium plasticity; trace small pebbles, subround; dry; stiff; gray (10YR 5/1).	
					2.3				
					3.0				
					2.1				
					1.8				
-10	-10	3	(8-13)	5	2.6				
					0.8				
					1.2				
					0.9				
					1.7				
-15	-15	4	(13-18)	5	3.0				

Borehole
backfilled with
bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 9/1/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-8 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	2	2.7			(0-1) CONCRETE	
					7.3			(1-30) SILT, and clay, medium to high plasticity; trace small to large pebbles, subround; dry to moist; stiff; gray (10YR 5/1).	
					4.9				
					38.3				
					47.3				
-5	-5	2	(3-8)	3.5	75.1	X			
					17.9				
					12.5				
					13.7				
					6.9				
-10	-10	3	(8-13)	4	2.1				
					5.4				
					4.3				
					1.6				
					2.5				
-15	-15	4	(13-18)	5	2.3				
									Borehole backfilled with bentonite

	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed. Shake test positive 5-6' bgs.
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Date Start/Finish: 8/31/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-9 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	2	2.3			(0-1) CONCRETE	
					1.2			(1-6) SAND, fine, subround; well sorted; moist; brown (10YR 4/3).	
					2.2				
					1.1				
-5	-5	2	(3-8)	3.5	2.5	X		(6-9) CLAY, medium plasticity; dry; stiff; gray (10YR 6/1).	
					3.4				
					0.3				
					1.5			(9-13) CLAY, nonplastic; dry; soft; dark brown (10YR 2/2) NOTE: organic rich, leaves, roots, sticks, light sponge feel.	
-10	-10	3	(8-13)	5	1.5				
					2.7				
					0.2			(13-18) CLAY, high plasticity; moist; very soft; gray (10YR 5/1).	
					0.1				
-15	-15	4	(13-18)	5	1.6				Borehole backfilled with bentonite

	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 8/31/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-9 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
					1.6				
20	-20	5	(18-23)	5	0.5			(18-25) CLAY, and silt, medium plasticity; trace sand, trace small to large pebbles, subround; moist to wet; medium stiff; gray (10YR 5/1) NOTE: highest moisture from 23-24' bgs.	
					0.7				
					4.5				
					0.8	X			
25	-25				1.5			(25-30) CLAY, little silt, medium plasticity; trace small to large pebbles, subround; moist to dry; medium stiff; gray (10YR 5/1).	
					0.1				
		6	(23-30)	4.5	2.1				
					2.4				
					3.0				
					4.2	X			
30	-30							End of boring at 30' bgs	
35	-35								

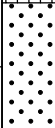
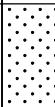
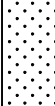
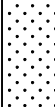
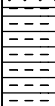
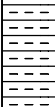
 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 9/1/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-10 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	0.6 3.5 1.6			(0-0.5) CONCRETE (0.5-4) SAND, fine, subround; well sorted; dry; yellowish brown (10YR 4/6).	
					1.8				
					1.8	X		(4-23) CLAY, and silt, high plasticity; trace small to medium pebbles, subround; dry to moist; stiff; gray (10YR 5/1).	
-5	-5	2	(3-8)	5	0.3 2.7 1.7				
					1.1				
					0.6				
-10	-10	3	(8-13)	5	0.5 1.1 2.4				
					0.8				
					2.3				
-15	-15	4	(13-18)	4	1.2				Borehole backfilled with bentonite

	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 9/7/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-11 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	2	50.3			(0-1) CONCRETE	
					80.2	X		(1-3) SAND, fine, trace small to large pebbles, angular; poorly sorted; dry to moist; dark brown (10YR 2/2).	
					65.1			(3-8) SAND, fine, well sorted; moist; brown (10YR 4/3).	
		2	(3-8)	3	30.2				
					7.5				
					6.5				
					4.1				
					0.4			(8-20) SILT, and clay, medium to high plasticity; trace small to large pebbles, subround; dry to moist; stiff to medium stiff; gray (10YR 5/1) NOTE: black discoloration and odor at 8' bgs.	
					1.1				
		3	(8-13)	3.5	0.8				
					0.7				
					0.7				
					1.2				
					1.2				
-15	-15								

Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered.
 No staining observed.
 Shake test negative at 8' bgs.

Date Start/Finish: 9/7/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-11 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
20	-20	4	(13-20)	4	1.8				
					0.8				
					0.9	X			
								End of boring at 20' bgs	
25	-25								
30	-30								
35	-35								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No staining observed. Shake test negative at 8' bgs.
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Date Start/Finish: 9/7/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-12 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	2	1.7			(0-1) CONCRETE	
					2.5	X		(1-4) SILT, trace sand, trace small to large pebbles, subround; well sorted; grayish brown (10YR 5/2).	
					5.6				
					0.4			(4-8) SAND, fine, well sorted; moist; brown (10YR 4/3).	
-5	-5	2	(3-8)	3	1.4				
					0.6				
					1.9				
					1.0			(8-20) SILT, and clay, medium to high plasticity; trace small to large pebbles, subround; dry to moist; stiff to medium stiff; gray (10YR 5/1).	
					0.5				
-10	-10	3	(8-13)	3.5	0.2				
					0.9				
					1.7				
					1.6				
					1.8				
-15	-15				0.9				

Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 9/7/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-12 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
20	-20	4	(13-20)	4	1.1				
					0.3				
					0.2	X			
								End of boring at 20' bgs	
25	-25								
30	-30								
35	-35								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 8/31/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 15' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-13 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	1.5	2.2			(0-1) CONCRETE	
					1.3			(1-8) CLAY, medium plasticity; trace small to medium pebbles, subround; dry; stiff; grayish brown (10YR 5/2) laminated brown (10YR 4/3).	
					1.1	X			
					1.8				
-5	-5	2	(3-8)	4	2.4				
					2.8				
					2.2				
					2.3				
					1.1			(8-15) CLAY, some silt, medium to high plasticity; trace small to large pebbles, subround; dry to moist; medium stiff; gray (10YR 5/1).	
-10	-10	3	(8-13)	4	2.2				
					2.4				
					1.5				
					0.2				
		4	(13-15)	2	1.3				
					4.7	X			
-15	-15							End of boring at 15' bgs	

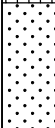
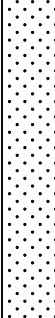
Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 8/30/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 15' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-14 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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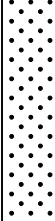
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	1	0.4			(0-1) CONCRETE	 Borehole backfilled with bentonite
					1.3			(1-8) SAND, fine, subround; well sorted; dry; brown (10YR 4/3) NOTE: fill material.	
					1.2				
					0.7				
					0.8				
-5	-5	2	(3-8)	2.5	0.9				
					1.5				
					1.6				
					1.2			(8-9) CONCRETE	
					0.8			(9-15) CLAY, trace silt, high plasticity; trace sand; moist to dry; medium stiff; grayish brown (10YR 5/2).	
-10	-10	3	(8-13)	NA	1.3				
					2.2				
					2.6				
		4	(13-15)	NA	0.8				
					1.6				
-15	-15							End of boring at 15' bgs	



Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 8/26/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-17 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	0.8			(0-0.5) CONCRETE	
					0.4			(0.5-4) SAND, fine to medium, trace granules to small pebbles, subround; poorly sorted; moist; brown (10YR 4.3) NOTE: fill.	
					4.0				
					1.1				
-5	-5	2	(3-8)	4	1.0			(4-20) CLAY, little silt, medium to high plasticity; trace small to large pebbles, subround; moist to dry; stiff; gray (10YR 5/1).	
					2.3				
					1.4				
					2.3				
-10	-10	3	(8-13)	5	0.7				
					2.4				
					4.3				
					2.1				
					3.1				
					3.5				
-15	-15	4	(13-18)	NA	1.2				
					2.2				

Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 8/29/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-18 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	0.7			(0-0.5) CONCRETE	
					4.3			(0.5-2) SAND, fine, trace granules, subround; well sorted; moist; brown (10YR 4/3).	
					4.3			(2-3) CLAY, some silt, medium to high plasticity; trace small to medium pebbles, subround; dry to moist; dark gray (10YR 3/1) and grayish brown (10YR 5/2).	
					4.3			(3-3.5) SAND, fine, trace granules, subround; well sorted; moist; brown (10YR 4/3).	
					1.2			(3.5-20) CLAY, and silt, medium to high plasticity; trace small to very large pebbles, subround; dry to moist; stiff; gray (10YR 5/1).	
					4.3	X			
-5	-5	2	(3-8)	5	1.5				
					2.0				
					0.2				
					0.5				
					3.8				
-10	-10	3	(8-13)	5	1.1				
					2.5				
					1.6				
					1.4				
					2.8				
-15	-15	4	(13-18)	5	1.7				

Borehole
backfilled with
bentonite

Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.



Date Start/Finish: 8/30/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 12' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-19 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	2	1.2			(0-1) CONCRETE	
					0.8			(1-12) SAND, fine, subround; well sorted; moist; brown (10YR 4/3) NOTE: fill material.	
					0.9				
					0.8				
-5	-5	2	(3-8)	4	2.0				
					1.7				
					0.6				
					2.1				
-10	-10	3	(8-12)	3.5	0.8				
					1.2				
					1.3				
								End of boring at 12' bgs	
-15	-15								

Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 8/29/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-20 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	1.5	3.3			(0-0.5) CONCRETE	
					4.5			(0.5-3.5) SAND, fine, subround; well sorted; moist; brown (10YR 4/3).	
					3.0			(3.5-9.5) CLAY, high plasticity; trace small pebbles, subround; moist; medium stiff; mottled gray (10YR 5/1) and brown (10YR 4/3).	
5	-5	2	(3-8)	4.5	0.6				2" Sch 40 PVC riser (-2-8' bgs)
					1.4				Bentonite (0-7' bgs)
					3.0				
					1.6				
10	-10	3	(8-13)	3.5	3.5			(9.5-11) SAND, fine to very fine, subround; little clay; well sorted; wet; brown (10YR 4/3).	
					1.7			(11-20) CLAY, and silt, medium to high plasticity; trace small to large pebbles, subround; dry to moist; gray (10YR 5/1).	
					1.4				
					1.6				
15	-15	4	(13-18)	4.5	0.4				Sand Pack (7-20' bgs)
									2" Sch 40, 10 slot well screen (8-13' bgs)

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater encountered at 9.5' bgs. No odor or staining observed. Temporary well screened 8-13' bgs.
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Date Start/Finish: 8/29/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-21 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	1.5	3.1			(0-1) CONCRETE	
					5.1			(1-4) SAND, fine, subround; well sorted; moist brown (10YR 4/3).	
					5.7			NOTE: color change to black (10YR 2/1) at 3' bgs.	
-5	-5	2	(3-8)	5	4.1	X		(4-10) CLAY, high plasticity; trace small pebbles, subround; moist to dry; medium stiff; mottled gray (10YR 5/1) and brown (10YR 4/3).	
					1.2				
					1.9				
					5.2				
-10	-10	3	(8-13)	5	1.3	X			
					1.2				
					4.3			(10-13) SAND, very fine to fine, subround; little clay; well sorted; wet; brown (10YR 4/3).	
					5.1				
					1.4				
					1.3			(13-20) CLAY, and silt, medium to high plasticity; trace small to large pebbles, subround; dry to moist; gray (10YR 5/1).	
-15	-15	4	(13-18)	5	0.4				
					0.3				

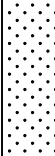
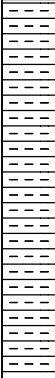
Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

Groundwater encountered at 10' bgs.
No odor or staining observed.

Date Start/Finish: 8/29/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-23 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	1.7			(0-0.5) CONCRETE	
					1.0			(0.5-3) SAND, fine, trace granules, subround; well sorted; moist; brown (10YR 4/3).	
					3.4				
		2	(3-8)	5	2.6	X		(3-10) CLAY, and silt, low to medium plasticity; trace small to large pebbles, subround; dry to moist; stiff; grayish brown (10YR 5/2). NOTE: slight odor, slight black (10YR 2/1) discoloration from 3-4' bgs.	
-5	-5				6.6				
					2.8				
					1.4				
					5.8				
-10	-10	3	(8-13)	5	1.3			(10-20) CLAY, and silt, medium to high plasticity; trace small to large pebbles, subround; dry to moist; stiff to medium stiff; gray (10YR 5/1).	Borehole backfilled with bentonite
					1.9				
					1.4				
					2.5				
					5.6				
					3.4				
-15	-15	4	(13-18)	5	2.0				
					3.2				

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No staining observed. Shake test positive 3-4' bgs.
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Date Start/Finish: 8/31/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-24 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	0.4			(0-0.5) CONCRETE	
					2.2			(0.5-15) SAND, fine, trace granules, subround; well sorted; moist; brown (10YR 4/3).	
					3.3				
					4.3				
					8.7				
					14.3				
-5	-5	2	(3-8)	3.5	18.8			NOTE: odor, color change to dark gray (10YR 3/1) from 5.5-15' bgs.	
					20.2				
					6.8				
					7.0				
		3	(8-10)	1	12.4				
-10	-10				14.2				
					10.8				
					8.7				
		4	(10-15)	4	1.2				
					3.2				
					2.0				
-15	-15				0.5			(15-20) CLAY, high plasticity; trace small to large pebbles, subround; dry; stiff; gray (10YR 5/1).	
					0.4				

Borehole
backfilled with
bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered.
No staining observed.
Shake test negative 5.5-6.5' bgs.

Date Start/Finish: 8/31/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-24 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
20	-20	5	(15-20)	5	0.3 1.0 0.8 1.7 1.2	X		End of boring at 20' bgs	
25	-25								
30	-30								
35	-35								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No staining observed. Shake test negative 5.5-6.5' bgs.
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Date Start/Finish: 9/7/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 10' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-25 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	4.6			(0-0.5) CONCRETE	
					8.7			(0.5-4) CLAY, low to medium plasticity; trace small to medium pebbles, subround; dry; stiff; gray (10YR 5/1) laminated brownish yellow (10YR 6/6).	
					8.8				
-5	-5				9.6	X		(4-10) CLAY, and silt, medium to high plasticity; trace small to large pebbles, subround; moist; medium stiff; gray (10YR 5/1). NOTE: small (<1cm) sand lense, odor at 4.5' bgs.	Borehole backfilled with bentonite
		2	(3-10)	5	2.3				
					4.8				
					0.2				
					4.1				
-10	-10				0.1	X			
								End of boring at 10' bgs	
-15	-15								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No staining observed. Shake test positive at 4.5' bgs.
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Date Start/Finish: 8/29/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-26 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	0.8 5.1 1.8			(0-0.5) CONCRETE (0.5-5) SAND, fine, trace granules to small pebbles, subround; well sorted; moist; brown (10YR 4/3).	
5	-5	2	(3-8)	4.5	5.0 5.2 2.2 1.7 3.2	X		(5-20) CLAY, and silt, medium to high plasticity; trace sand, trace small to large pebbles, subround; dry to moist; stiff; gray (10YR 5/1).	
10	-10	3	(8-13)	5	1.8 3.3 2.1 3.0 2.8				
15	-15	4	(13-18)	4	0.3 1.8 2.2 2.0 1.6				
20	-20	5	(18-20)	2	1.4 0.3	X		End of boring at 20' bgs	
25	-25								
30	-30								
35	-35								

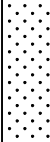
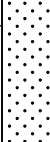
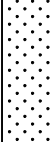
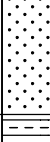
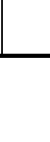
Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 9/2/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 15' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-27 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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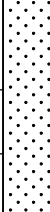
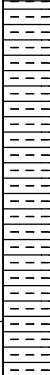
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	1.2			(0-0.5) CONCRETE	 Borehole backfilled with bentonite
					1.7			(0.5-3) SAND, fine, well sorted; moist; brown (10YR 4/3).	
					0.9				
					1.2			(3-3.5) PEBBLES, small to medium, angular; moist to wet; gray (10YR 5/1). NOTE: pea gravel.	
					2.1			(3.5-10) SAND, fine, well sorted; moist to wet; brown (10YR 4/3).	
-5	-5	2	(3-8)	3.5	2.3				
					1.8				
					1.2				
		3	(8-10)	NA	1.1				
					1.0				
-10	-10				0.8			(10-15) SILT, and clay, medium plasticity; trace small to large pebbles, subround; dry to moist; stiff; grayish brown (10YR 5/2).	
					0.9				
		4	(10-15)	5	0.5				
					0.4				
					1.2				
-15	-15							End of boring at 15' bgs	



Remarks: BGS = Below ground surface

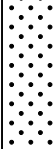
Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 9/2/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 10' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-28 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	2.1 2.7 2.0	✕	 (0-0.5) CONCRETE  (0.5-4) SAND, fine, well sorted; moist; brown (10YR 4/3).		
					1.7				
-5	-5	2	(3-8)	5	1.3 0.8 0.9 1.2			(4-10) SILT, and clay, medium plasticity; trace small to medium pebbles, subround; dry to moist; stiff; brown (10YR 4/3).	Borehole backfilled with bentonite
		3	(8-10)	1	1.4 2.3	✕			
-10	-10							End of boring at 10' bgs	
-15	-15								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 8/26/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 15' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-30 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	0.4			(0-0.5) CONCRETE	
					1.5			(0.5-3) SAND, fine to medium, trace granules to small pebbles, subround; poorly sorted; moist; brown (10YR 4/3) NOTE: fill.	
					2.0				
					2.6	X		(3-15) CLAY, and silt, low to medium plasticity; trace small to large pebbles, subround; moist to dry; medium stiff to stiff; black (10YR 2/1).	
					2.3			NOTE: color change to grayish brown (10YR 5/2) at 4' bgs.	
-5	-5	2	(3-8)	5	4.8				
					6.0				
					1.8				
					2.2				
					1.7				
-10	-10	3	(8-13)	5	4.3				
					0.8				
					1.4				
					1.5				
		4	(13-15)	1.5	4.3	X			
15	15							End of boring at 15' bgs	



Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 8/30/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 10' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-31 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	20.7 11.0 7.0	X		(0-10) CLAY, medium to low plasticity; trace small to large pebbles, subround; dry; stiff to very stiff; dark brown (10YR 3/3).	
					12.1 5.6 11.2 12.5 8.7 4.2 3.6				
5	-5	2	(3-10)	5.5					Borehole backfilled with bentonite
10	-10							End of boring at 10' bgs	
15	-15								

	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 8/30/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 10' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-32 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	1.5	1.0			(0-0.5) CONCRETE	 Borehole backfilled with bentonite
					3.1			(0.5-2) SAND, fine, subround; well sorted; moist; brown (10YR 4/3).	
					0.4	X		(2-4) SILT, some clay, nonplastic; dry; soft; gray (10YR 5/1).	
					1.7			(4-10) SAND, fine to very fine, subround; well sorted; dry; gray (10YR 5/1) to very pale brown (10YR 7/4).	
-5	-5	2	(3-10)	4.5	2.6				
					3.6				
					3.1				
					1.3				
					1.0				
					1.7	X			
-10	-10				2.1				
								End of boring at 10' bgs	
-15	-15								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 8/30/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: 9.5 Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: 8.5 Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-36 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	2.0			(0-1) CONCRETE	Borehole backfilled with bentonite
					5.4			(1-2) SAND, fine, subround; well sorted; moist to dry; brown (10YR 4/3).	
					0.5			(2-6) CLAY, medium plasticity; trace small pebbles, subround; dry; stiff; grayish brown (10YR 5/2) laminated brownish yellow (10YR 6/6).	
					5.2				
					4.8				
-5	-5	2	(3-8)	4.5	5.0	X			
					3.9			(6-8.5) SAND, fine, subround; well sorted; moist; yellowish brown (10YR 4/6).	
					5.7				
					5.3			(8.5-20) CLAY, and silt, medium to high plasticity; trace small to large pebbles, subround; dry to moist; medium stiff; gray (10YR 5/1).	
-10	-10	3	(8-13)	4	1.2				
					6.8				
					1.3				
					3.0				
					0.7				
					0.9				
-15	-15	4	(13-18)	4.5	1.9				

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 8/31/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 10' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P2-SB-37 Client: RACER Trust Location: Lansing Plant 2 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	2	6.4			(0-0.25) CONCRETE	
					17.4	X		(0.25-9) CLAY, some silt, medium to low plasticity; dry; stiff; brown (10YR 4/3).	2" Sch 40 PVC riser (-2-5' bgs) Bentonite (0-4' bgs)
					12.5			NOTE: color change to black (10YR 2/1), discoloration, small pieces of wood at 3' bgs.	
-5	-5	2	(3-10)	3	13.6				
					14.3				
					21.1	X		(9-10) CLAY, high plasticity; moist; medium stiff; gray (10YR 5/1).	Sand Pack (4-10' bgs) 2" Sch 40, 10 slot well screen (5-10' bgs)
-10	-10							End of boring at 10' bgs	
-15	-15								

	Remarks: BGS = Below ground surface Groundwater encountered at 10' bgs. No staining observed. Strong odor coming from entire boring. Shake test negative 9-10' bgs. Temporary well screened 5-10' bgs.
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Date Start/Finish: 8/15/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 25' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-27-RO Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	1.5	0.6			(0-0.5) CONCRETE	
					0.6			(0.5-5) SAND, fine, subround, well sorted; moist; brown (10YR 4/3). NOTE: fill material.	
					0.1				
5	-5	2	(3-8)	4	0.1			(5-14) CLAY, medium to low plasticity; some silt, trace sand, trace small to very large pebbles, subround; moist to dry; stiff; grayish brown (10YR 5/2).	
					0.4				
					0.5				
10	-10	3	(8-13)	4.5	0.0				
					0.7				
					1.2				
					2.6				
15	-15	4	(13-18)	5	0.3			(14-21) CLAY, high plasticity; trace small to large pebbles, subround; dry; very stiff; dark gray (10YR 3/1).	
					0.1				

Borehole backfilled with bentonite

Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.



Date Start/Finish: 8/16/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 25' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-CH-13-RO Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	2.8			(0-0.5) CONCRETE	
					0.8			(0.5-8) SAND, fine, subround; well sorted; moist to dry; brown (10YR 4/3).	
					5.0				
					5.1				
5	-5	2	(3-8)	2.5	3.4				
					1.2				
					1.4	X			
					0.9				
					1.9			(8-13) CLAY, and silt, medium plasticity; trace small to very large pebbles, subround; dry to moist; stiff to very stiff; dark brown (10YR 2/2).	
10	-10	3	(8-13)	3	1.0			NOTE: color change to gray (10YR 5/1) at 10' bgs.	
					0.8				
					0.7			(13-22) CLAY, little silt, high plasticity; trace sand, trace small to large pebbles; subround; dry to moist; stiff; gray (10YR 5/1).	
15	-15	4	(13-18)	4.5	1.0				
					2.2				

Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 8/15/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 25' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-CH-14-RO Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	2.7			(0-0.5) CONCRETE	
					2.1			(0.5-9) SAND, fine, subround; well sorted; moist to dry; brown (10YR 4/3). NOTE: fill material.	
					3.5				
					10.4				
5	-5	2	(3-8)	3	7.7				
					5.2				
					4.1				
					7.3			NOTE: wet from 8-10' bgs.	
10	-10	3	(8-13)	4	8.3			(9-14) CLAY, some silt, low to medium plasticity; trace small to large pebbles, subround; dry; stiff; dark brown (10YR 2/2).	
					4.7				
					5.6				
					3.3				
15	-15				1.7			(14-24) CLAY, trace silt, high to medium plasticity; trace small to large pebbles, subround; dry to moist; stiff; gray (10YR 5/1).	
					1.6				



Remarks: BGS = Below ground surface

Groundwater not encountered.
 No odor or staining observed.
 Temporary well screened from 7-12' bgs.

Date Start/Finish: 8/15/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 25' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-CH-14-RO Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
20	-20	4	(13-20)	5	1.5				
					0.2	X			
					0.4				
					0.0				
					0.9				
		5	(20-25)	4	1.2				
					6.8			(24-25) SILT, dry; hard; gray (10YR 5/1).	
25	-25							End of boring at 25' bgs.	
30	-30								
35	-35								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed. Temporary well screened from 7-12' bgs.
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Date Start/Finish: 8/15/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-CH-15-RO Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	0.5			(0-0.5) CONCRETE	
					0.4			(0.5-3.5) CLAY, some silt, low plasticity; trace small to large pebbles, subround; dry; very stiff; dark brown (10YR 2/2) and dark gray (10YR 3/1).	
					2.6	X			
					7.3			(3.5-10) CLAY, some silt, low to medium plasticity; trace small to very large pebbles, subround; dry; stiff; grayish brown (10YR 5/2).	
-5	-5	2	(3-8)	3.5	8.7				
					7.5				
					5.5				
					4.6				
-10	-10	3	(8-13)	2.7	2.6			(10-20) NA	
					6.7				
					0.1				
					10.8				
-15	-15				7.3				

Borehole
backfilled with
bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 8/15/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-CH-15-RO Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
20	-20	4	(13-20)	3.3	6.6				
					5.5				
					6.3	X			
								End of boring at 20' bgs.	
25	-25	5							
30	-30								
35	-35								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 8/10/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-1 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-5)	5	0.7			(0-12) CLAY, and sand, medium plasticity; little silt, trace small to large pebbles, subround; dry to moist; medium stiff; yellowish brown (10YR 5/4).	
					0.7				
					0.8				
5	-5				0.0	X			
		2	(5-8)	3	0.1				
					0.1				
					0.0				
10	-10				0.0				
		3	(8-13)	4	0.6				
					0.2				
					0.4			(12-16) CLAY, medium to high plasticity; trace small to very large pebbles, subround; dry; very stiff; dark gray (10YR 3/1).	
					0.0	X			
					0.0				
15	-15	4	(13-18)	5	1.3				

Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

 Hand cleared from 0-5' bgs.
 Groundwater not encountered
 No odor or staining observed

Date Start/Finish: 8/11/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-2 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-5)	5	1.2			(0-2) TOPSOIL	
					0.1				
					0.7			(2-14) CLAY, some silt, medium plasticity; trace sand, trace small to medium pebbles, subround; dry; medium stiff to stiff; yellowish brown (10YR 5/4).	
					0.9				
					0.3				
-5	-5	2	(5-8)	3	0.6				
					1.1				
					1.2				
					1.2				
					2.2				
-10	-10	3	(8-13)	3.5	0.5				
					0.8				
					0.7				
					6.9				
-15	-15	4	(13-18)	3	6.2			(14-16) SAND, very fine to fine, subround; well sorted; moist to dry; very pale brown (10YR 8/4).	
									Borehole backfilled with bentonite

	Remarks: BGS = Below ground surface Groundwater not encountered No odor or staining observed
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Date Start/Finish: 8/12/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-2-RO Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	46.9			(0-0.5) ASPHALT	
					31.3			(0.5-7.5) CLAY, little silt, low to medium plasticity; trace small to large pebbles, subround; dry; stiff; grayish brown (10YR 5/2).	
					14.2				
					12.6				
					32.7	X			
					26.3				
-5	-5	2	(3-8)	4.5	17.4				
					12.1				
					7.2			(7.5-16.5) CLAY, high plasticity; trace small to large pebbles, subround; dry; stiff; gray (10YR 6/1).	
					5.7				
					4.8				
-10	-10	3	(8-13)	5	3.2				
					3.1				
					3.0				
					1.0				
					1.2				
-15	-15	4	(13-18)	4.5	24.3	X			
									Borehole backfilled with bentonite

	Remarks: BGS = Below ground surface Groundwater not encountered No odor or staining observed
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Date Start/Finish: 8/10/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-3 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-5)	5	0.5			(0-2.5) TOPSOIL, clay, and sand, low plasticity; trace granules, trace small pebbles, subround; moist; soft to very soft; yellowish brown (10YR 5/4).	
					0.7			(2.5-7.5) CLAY, trace silt, medium to high plasticity; trace sand, trace small to medium pebbles, subround; dry; stiff; yellowish brown (10YR 5/4).	
					0.4				
-5	-5	2	(5-8)	3	0.6				
					1.2	X			
					1.1			(7.5-9) SAND, very fine to fine, subround; well sorted; moist to wet; very pale brown (10YR 8/4).	
					0.9				
					0.2			(9-16) CLAY, medium to high plasticity; trace small to large pebbles, subround; dry to moist; stiff; grayish brown (10YR 3/2).	
-10	-10	3	(8-13)	4.5	0.0				
					0.1				
					0.0				
					0.0				
					0.6				
-15	-15	4	(13-18)	3.5	0.1	X			Borehole backfilled with bentonite

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Hand cleared from 0-5' bgs. Groundwater not encountered No odor or staining observed
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Date Start/Finish: 8/11/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-4 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-5)	5	0.0			(0-0.5) ASPHALT	
					0.3			(0.5-8) CLAY, trace silt, medium plasticity; trace sand, trace small to large pebbles, subround; dry; stiff to medium stiff; yellowish brown (10YR 5/4).	
					0.1				
					0.2				
					0.1				
					0.3				
-5	-5				0.0	X			
		2	(5-10)	4	0.3				
					0.6				
					0.2			(8-10) SAND, very fine to fine, subround; well sorted; moist to dry; very pale brown (10YR 8/4).	
					0.4				
-10	-10				1.6			(10-16) CLAY, medium plasticity; trace small to large pebbles, subround; dry to moist; stiff to medium stiff; grayish brown (10YR 3/2).	
		3	(10-13)	3	1.8				
					3.3				
					0.0				
					0.2				
-15	-15	4	(13-18)	4	0.1	X			Borehole backfilled with bentonite

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered No odor or staining observed
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Date Start/Finish: 8/11/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 25' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-5 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-5)	5	1.2			(0-0.5) CONCRETE	
					0.4			(0.5-10) CLAY, trace silt, medium to high plasticity; trace sand, trace small to large pebbles, subround; dry; medium stiff to stiff; yellowish brown (10YR 5/4).	
					0.4				
					0.7				
-5	-5				0.1				
		2	(5-8)	3	0.0				
					0.6	X			
					0.0				
					0.0				
-10	-10	3	(8-13)	5	0.0			(10-21) CLAY, trace silt, high plasticity; trace small to large pebbles, subround; dry to moist; stiff; dark gray (10YR 3/1).	
					0.2				
					0.5				
					0.4				
					0.2				
-15	-15	4	(13-18)	5	0.3				Borehole backfilled with bentonite

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered No odor or staining observed Sample for VOCs, SVOCs, Metals, PCBs.
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Date Start/Finish: 8/11/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 25' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-5 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
					0.0 0.3 0.0				
20	-20	5	(18-25)	4.5	NA			(21-25) SAND, some silt, very fine, subround; well sorted; dry to moist; very pale brown (10YR 8/4).	
25	-25					X		End of boring at 25' bgs	
30	-30								
35	-35								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered No odor or staining observed Sample for VOCs, SVOCs, Metals, PCBs.
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Date Start/Finish: 8/11/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 12' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-6a Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	0.2			(0-0.5) CONCRETE	
					0.7	×		(0.5-8) SAND, fine, trace granules, trace small pebbles, subround; well sorted; very pale brown (10YR 8/4).	
					0.5				
-5	-5	2	(3-8)	4.5	0.4				
					0.3				
					0.2				
					0.2			(8-12) NA	
					0.3				
-10	-10	3	(8-12)	3.5	0.4				
					0.5	×			
								End of boring at 12' bgs due to refusal.	
-15	-15								

Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered
No odor or staining observed

Date Start/Finish: 8/12/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 25' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-6b Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	0.1			(0-0.5) ASPHALT	
					0.2			(0.5-8) CLAY, little silt, low to medium plasticity; trace small to large pebbles, subround; dry; stiff; grayish brown (10YR 5/2).	
					0.7	X			
					0.9				
-5	-5	2	(3-8)	5	0.8				
					0.7				
					0.8				
					1.3				
					0.0			(8-18) CLAY, high plasticity, trace small to large pebbles, subround; dry; stiff; gray (10YR 6/1).	
-10	-10	3	(8-13)	5	0.0				
					0.1				
					0.0				
					0.2				
					0.6				
-15	-15	4	(13-18)	5	0.0				Borehole backfilled with bentonite

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered No odor or staining observed Relocated 90' south of P3-SB-6b.
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Date Start/Finish: 8/12/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 25' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-6b Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
					0.0				
					0.0				
		5	(18-20)	2	2.7			(18-25) SILT, and sand, very fine, well sorted; dry; grayish brown (10YR 3/2).	
20	-20				8.0				
		6	(20-25)	5	24.1				
					22.1				
					25.1				
25	-25				18.7	X		End of boring at 25' bgs.	
30	-30								
35	-35								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered No odor or staining observed Relocated 90' south of P3-SB-6b.
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Date Start/Finish: 8/15/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-7 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	2	0.2			(0-0.5) CONCRETE	
					0.2			(0.5-3) SAND, fine, subround, well sorted; moist to dry; brown (10YR 4/3).	
					0.1				
					0.0			(3-5) CLAY, some silt, medium to low plasticity; trace small to medium pebbles, subround; dry; stiff to medium stiff; dark brown (10YR 2/2).	
					0.0				
-5	-5	2	(3-8)	3	0.5			(5-16) SILT, trace clay, trace sand, very fine, subround; moist to wet; brown (10YR 4/3).	2" Sch 40 PVC riser (-2-11' bgs)
					0.2				Bentonite (0-10' bgs)
					1.0				
					1.7				
					1.2				
-10	-10	3	(8-13)	4	0.7				
					1.3				
					0.1				
					0.2				
					0.3				
-15	-15	4	(13-18)	5	0.0				Sand pack (10-30' bgs)
									2" Sch 40 PVC, 10 slot well screen (11-16' bgs)

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed. Temporary well screened from 11-16' bgs.
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Date Start/Finish: 8/15/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-7 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
					0.0			(16-23) CLAY, and silt, medium plasticity; trace small to medium pebbles, subround; moist; stiff; grayish brown (10YR 5/2).	
					0.7				
					0.0				
					0.7				
20	-20	5	(18-23)	3.5	0.0				
					1.3				
					1.1			(23-25.5) SAND, very fine, subround, well sorted; moist to dry; very pale brown (10YR 7/4).	
					0.3				
25	-25	6	(23-28)	5	0.2				
					0.9				
					1.8			(25.5-30) CLAY, and silt, medium plasticity; trace small to medium pebbles, subround; moist; medium stiff; gray (10YR 5/1).	
					0.1				
		7	(28-30)	2	0.1				
30	-30				0.1			End of boring at 30' bgs.	

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed. Temporary well screened from 11-16' bgs.
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Date Start/Finish: 8/16/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-8 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	5.8			(0-0.5) CONCRETE	
					4.8			(0.5-10) CLAY, some silt, medium plasticity; trace small to large pebbles, subround; dry; stiff; yellowish brown (10YR 4/6).	
					7.4	X			
					5.5				
-5	-5	2	(3-8)	5	2.4				
					5.5				
					5.1				
					6.7				
					4.9				
-10	-10	3	(8-13)	5	7.6			(10-24) SILT, little clay, low to no plasticity; trace small to medium pebbles, subround; dry; very stiff to hard; grayish brown (10YR 5/2).	
					17.6				
					36.5	X			
					20.1				
					5.0				
-15	-15	4	(13-18)	5	2.3				
					6.1				

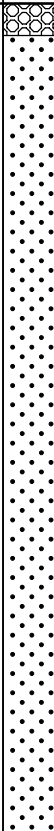
Borehole backfilled with bentonite

Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.



Date Start/Finish: 8/16/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 13' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-9a Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	4.3			(0-0.5) CONCRETE	 Borehole backfilled with bentonite
					3.7			(0.5-13) SAND, medium to very coarse, trace granules, subround; poorly sorted; gray (10YR 3/1). NOTE: fill.	
					5.8				
					0.6				
-5	-5	2	(3-8)	5	2.1				
					3.7				
					3.1				
					2.4				
					0.5				
-10	-10	3	(3-13)	5	0.8				
					5.3				
								End of boring at 13' bgs due to refusal.	
-15	-15								

	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed. Met refusal at 13' bgs, will step off 5' east; see additional P3-SB-9b boring log.
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Date Start/Finish: 8/16/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-9b Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	2	3.3			(0-0.5) CONCRETE	
					3.4			(0.5-14) CLAY, and silt, medium plasticity; trace small to large pebbles, subround; dry to moist; medium stiff; brown (10YR 4/3).	
					3.6	X			
					5.4				
5	-5	2	(3-8)	2.5	2.2				
					2.0				
					7.4				
					1.8				
10	-10	3	(8-13)	2.5	3.8				
					2.7				
					4.3				
15	-15	4	(13-18)	3	1.2			(14-18) SAND, fine to very fine, subround; trace silt.; well sorted; dry to moist; yellowish brown (10YR 4/6).	

Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 8/16/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-9b Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
					19.2	×			
20	-20	5	(18-23)	5	0.1			(18-25) CLAY, little to trace silt, medium to high plasticity; trace small to very large pebbles; dry; stiff; gray (10YR 5/1).	
					1.5				
					2.5				
					3.5				
					0.3				
25	-25	6	(23-28)	5	0.1				
					1.7	×		(25-28.5) SAND, fine, subround; well sorted; dry; very pale brown (10YR 7/4) to grayish brown (10YR 5/2).	
					2.7				
					0.3				
30	-30	7	(28-30)	2	2.2			(28.5-30) SILT, dry; very stiff; gray (10YR 5/1).	
								End of boring at 30' bgs.	

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 8/17/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-10 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	2	3.4			(0-0.5) CONCRETE	
					6.8	X		(0.5-13) CLAY, and silt, medium to low plasticity; trace small to large pebbles, subround; dry; stiff; yellowish brown (10YR 4/6).	
					2.4				
5	-5	2	(3-8)	3	1.3				
					1.9				
					2.7				
					3.3				
					2.9				
10	-10	3	(8-13)	5	0.7				
					1.8				
					0.2				
					0.1			(13-19) CLAY, and silt, medium to high plasticity; trace small to large pebbles, subround; dry to moist; stiff to medium stiff; gray (10YR 5/1).	
					2.2				
15	-15	4	(13-18)	5	1.6				Borehole backfilled with bentonite

	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 8/24/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 10' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-12 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	2.4 1.9 4.4			(0-3) CONCRETE	
					2.5	×		(3-6) SILT, trace small to large pebbles, subround; moist to wet; brown (10YR 4/3)	
-5	-5	2	(3-8)	5	2.5 1.9 1.0 0.6			(6-10) SILT, trace clay, trace small to large pebbles, subround; dry to moist; gray (10YR 5/1).	
		3	(8-10)	2	1.8 3.8	×			
-10	-10							End of boring at 10' bgs	
-15	-15								

Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 8/25/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Hand Auger & Sonic Drilling Sampling Method: Sonic Rig Type: NA	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-13 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-5)	5	0.1			(0-1) CONCRETE	
					0.0			(1-18) CLAY, and silt, medium plasticity; trace small to large pebbles, subround; moist to dry; medium stiff to stiff; dark grayish brown (10YR 4/2).	
					0.0				
					0.0				
					0.0				
5	-5				0.1				
		2	(5-8)	3	0.5				
					0.0				
					0.2				
					0.1				
10	-10	3	(8-13)	3	0.0				
					0.0				
					0.0				
					0.1				
					0.2				
15	-15	4	(13-18)	3	0.0				

Borehole
backfilled with
bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.
Hand Auger 0-5' bgs.

Date Start/Finish: 8/25/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Hand Auger & Sonic Drilling Sampling Method: Sonic Rig Type: NA	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-13 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
					0.0				
					0.0	X			
					0.1			(18-30) Poor Recovery	
20	-20	5	(18-23)	0.5	NA				
25	-25	6	(23-30)	0	NA				
30	-30							End of boring at 30' bgs	
35	-35								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed. Hand Auger 0-5' bgs.
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Date Start/Finish: 8/19/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-14 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	0.9			(0-0.5) CONCRETE	
					1.1			(0.5-6) SAND, fine, trace granule, subround; well sorted; dry; brown (10YR 4/3).	
					3.0	X			
					1.8				
5	-5	2	(3-8)	4	0.6				
					23.7				
					19.6	X		(6-16.5) SILT, and clay, low plasticity to nonplastic; trace small to medium pebbles, subround; dry; very stiff, grayish brown (10YR 5/2).	
					10.8				
					3.8				
					2.7				
10	-10	3	(8-13)	5	3.6				
					3.0				
					1.7				
					0.2				
					0.5				
15	-15	4	(13-18)	4	0.6				

Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 8/19/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-14 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
20	-20	5	(18-23)	4	1.3			(16.5-23) SAND, fine, subround; well sorted; dry; very pale brown (10YR 7/4).	
					5.6				
					0.6				
					1.1				
					0.9				
					1.1				
					1.5				
25	-25	6	(23-28)	3.5	0.8			(23-29) CLAY, some silt, medium plasticity; trace small to large pebbles, subround; dry; stiff to medium stiff; gray (10YR 6/1).	
					2.4				
					1.7				
					1.3				
					0.9				
		7	(28-30)	2	0.8			(29-30) SAND, very fine to fine, subround; well sorted; dry; very pale brown (10YR 7/4).	
30	-30				2.3				
								End of boring at 30' bgs	

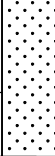
 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 8/18/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-15 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	5.4			(0-0.5) CONCRETE	
					1.3			(0.5-12) SILT, some clay, trace very fine sand, dry; brown (10YR 4/3).	
					3.6	X			
					5.1				
5	-5	2	(3-8)	4	3.1				
					3.3				
					5.4				
					2.1				
					3.4				
10	-10	3	(8-13)	4	3.6				
					1.2	X			
					1.4			(12-13) SAND, medium to coarse, subround; well sorted; moist; grayish brown (10YR 5/2).	
					1.0			(13-27) CLAY, some silt, medium plasticity; trace small to very large pebbles, subround; dry to moist; medium stiff, gray (10YR 5/1).	
					1.8			NOTE: black (10YR 2/2) seems to be organic rich clay and silt from 13-14' bgs.	
15	-15	4	(13-18)	5	1.8				Borehole backfilled with bentonite

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 8/23/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 10' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-17 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	2.5	0.9			(0-1) CONCRETE	 Borehole backfilled with bentonite
					3.0			(1-3.5) SILT, little clay, nonplastic to low plasticity; trace small to medium pebbles, subround; moist; gray (10YR 5/1).	
					0.5				
					0.4	X		(3.5-7.5) SILT, low to nonplastic; trace small to medium pebbles, subround; moist to dry; dark gray (10YR 4/1).	
-5	-5	2	(3-8)	5	0.3				
					0.2				
					0.6			(7.5-10) SAND, fine, subround; well sorted; moist to dry; very pale brown (10YR 7/4).	
		3	(8-10)	2	0.4				
					0.5	X			
-10	-10							End of boring at 10' bgs	
-15	-15								

	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 8/22/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-18 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	4.6			(0-0.5) CONCRETE	
					2.7			(0.5-12) CLAY, and silt, low plasticity; trace small to large pebbles, subround; dry; very stiff; brown (10YR 4/3) mottled gray (10YR 5/1).	
					1.2	X			
					1.8				
5	-5	2	(3-8)	4	0.3				
					0.5				
					0.5				
					0.4				
					0.5				
10	-10	3	(8-13)	4.5	1.3				
					2.5				
					1.5				
					1.9			(12-18) CLAY, trace silt, high plasticity; trace small to large pebbles, subround; dry; stiff; gray (10YR 5/1).	
					0.9				
15	-15	4	(13-18)	4.5	2.2				
					1.2				

Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 8/19/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-19 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	11.6			(0-0.5) CONCRETE	
					61.2			(0.5-12) SILT, and clay, low plasticity; trace small to large pebbles, subround; dry; stiff; grayish brown (10YR 5/2).	
					65.3	X			
					50.1				
-5	-5	2	(3-8)	5	27.8				
					20.2				
					14.3				
					10.0				
					6.3				
-10	-10	3	(8-13)	5	3.9				
					3.9				
					3.2				
					3.7				
					2.9			(12-18) CLAY, little silt, medium to high plasticity; trace small to large pebbles, subround; dry; medium stiff; gray (10YR 5/1).	
					3.0				
-15	-15	4	(13-18)	4	5.8				
					2.8				

Borehole backfilled with bentonite

Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.



Date Start/Finish: 8/19/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-19 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
					3.7				
					1.5				
20	-20	5	(18-23)	4	2.0			(18-26) SILT, some to little clay, nonplastic to low plasticity; medium stiff to soft; moist; gray (10YR 5/1).	
					3.3				
					2.3				
					5.1				
					4.3				
25	-25	6	(23-28)	4	8.2				
					5.6				
					4.3	X			
					2.0			(26-30) SAND, very fine to fine, subround; well sorted; dry; very pale brown (10YR 7/4).	
					1.1				
		7	(28-30)	2	2.3				
30	-30				14.1				
								End of boring at 30' bgs	

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 8/19/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 10' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-20 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
					7.3			(0-0.5) CONCRETE	
					3.4			(0.5-10) CLAY, little silt, low plasticity; trace small to large pebbles, subround; dry; stiff; mottled gray (10YR 5/1) and brown (10YR 5/2). NOTE: small sand seam, coarse, poorly sorted; moist, brown (10YR 5/3) from 3.5-3.75 bgs.	
					4.9				
					1.8				
-5	-5	1	(0-10)	NA	4.9				
					2.9				
					5.0				
					3.3				
					1.1				
					3.7				
-10	-10							End of boring at 10' bgs	
-15	-15								



Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 8/24/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 10' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-21 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	1.5 0.6 0.5			(0-3) CONCRETE	
					2.2	×		(3-7) SILT, trace small to large pebbles, subround; moist to wet; brown (10YR 4/3).	
-5	-5	2	(3-8)	4	2.3 1.2 0.8				
					2.1			(7-10) SILT, trace clay, trace small to medium pebbles, subround; moist; gray (10YR 5/1).	
		3	(8-10)	1.5	0.9				
10	10				2.5	×			
								End of boring at 10' bgs	
-15	-15								

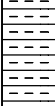
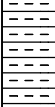
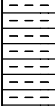
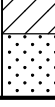
Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 8/25/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-22 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	2	0.1			(0-1) CONCRETE	
					0.0			(1-13) CLAY, and silt, low plasticity; trace small to large pebbles, subround; hard to stiff; dry; brown (10YR 4/3).	
					0.0				
					0.5	X			
5	-5	2	(3-8)	4	0.7				
					0.5				
					0.3				
					2.3				
					2.0				
10	-10	3	(8-13)	5	1.0				
					2.0				
					1.1				
					0.2				
					1.2			(13-15) CLAY, high plasticity; trace small to large pebbles, subround; dry to moist; stiff; gray (10YR 5/1).	
					0.5				
15	-15	4	(13-18)	5	0.4			(15-19) SAND, very fine to fine, subround; well sorted; dry to moist; brown (10YR 4/3).	

Borehole
backfilled with
bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 8/25/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-22 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
					10.2				
					12.7				
					2.4				
-20	-20	5	(18-23)	5	0.3			(19-25) SILT, some clay, medium plasticity; trace small to medium pebbles, subround; medium stiff; dry to moist; brown (10YR 4/3).	
					0.7				
					1.7				
					2.4				
					0.2				
-25	-25				0.4				
					0.7			(25-28) SILT, some clay, medium plasticity; trace small to large pebbles, subround; medium stiff; dry to moist; gray (10YR 5/1).	
		6	(23-30)	7	1.3				
					0.8	X			
					1.4			(28-30) SAND, fine, well sorted; dry; very pale brown (10YR 7/4).	
-30	-30				2.0				
								End of boring at 30' bgs	

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 8/18/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-23 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	NA			(0-3) CONCRETE	
					1.9			(3-10) CLAY, low plasticity; trace small to large pebbles, subround; dry; hard to very stiff; grayish brown (10YR 5/2).	
-5	-5	2	(3-8)	4.5	5.6	X			
					5.2				
					4.3				
-10	-10	3	(8-13)	4.5	3.4			(10-14) SILT, trace very fine sand; moist; soft; gray (10YR 5/1).	
					3.6				
					6.3				
					0.9				
-15	-15	4	(13-18)	5	0.8			(14-19.5) CLAY, some silt, medium plasticity; trace small to large pebbles, subround; moist; stiff; grayish brown (10YR 5/2).	

Borehole backfilled with bentonite

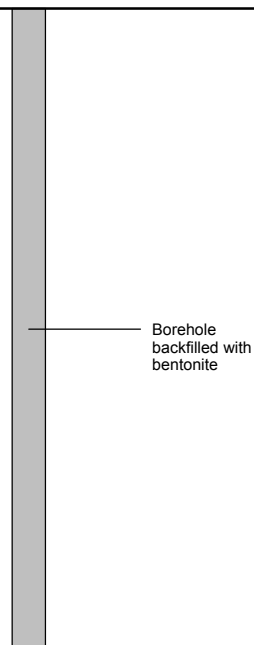
Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.



Date Start/Finish: 8/18/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 10' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-25 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	2.8			(0-1) CONCRETE	
					2.8	X		(1-10) SILT, nonplastic; moist; soft to very soft; dark gray (10YR 4/1) to black (10YR 2/1). NOTE: seems to be fill material, subfloor encountered at 10' bgs.	
					1.7				
					2.2				
-5	-5				4.4				
		2	(3-10)	7	4.2				
					2.9				
					1.5				
					5.0				
					1.0				
10	10				3.2	X			
								End of boring at 10' bgs	
-15	-15								



 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 8/18/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-26 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	2.5	3.9			(0-0.5) CONCRETE	
					1.5			(0.5-6.5) SILT, trace very fine sand, moist; brown (10YR 4/3).	
					1.5				
					10.5				
					13.9				
-5	-5	2	(3-8)	3	3.2				
					1.3	X		(6.5-7) SAND, fine to medium, subround; well sorted; moist; yellowish brown (10YR 6/6) NOTE: black (10YR 2/2) discoloration, odor.	
					0.7			(7-10) CLAY, little silt, trace small to large pebbles, subround; dry; stiff; brown (10YR 4/3).	
					2.5				
					3.6				
-10	-10	3	(8-13)	5	6.1			(10-10.5) SAND, medium to coarse, trace granule, subround; well sorted; moist; grayish brown (10YR 5/2).	
					7.4	X		(10.5-19.5) CLAY, little silt, medium to high plasticity; trace small to large pebbles, subround; dry; medium stiff; dark gray (10YR 3/1).	
					5.6			NOTE: organic rich layer, black (10YR 2/1) discoloration from 11-12' bgs.	
					1.3				
					0.3				
-15	-15	4	(13-18)	5	1.3				

Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered.
No staining observed.
Shake test positive 6.5-7' bgs.

Date Start/Finish: 8/23/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 15' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-27 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	0.1			(0-1) CONCRETE	
					0.6			(1-3.5) SAND, fine, trace small pebbles, subround; dry; very pale brown (10YR 7/4).	
					0.8				
					1.1			(3.5-8.5) SILT, nonplastic; moist; soft to very soft; dark gray (10YR 4/1) to black (10YR 2/1).	
-5	-5	2	(3-8)	5	1.3	×			
					0.4				
					0.5				
					1.2				
					0.8			(8.5-15) SAND, fine, subround; well sorted; dry; very pale brown (10YR 7/4).	
-10	-10	3	(8-13)	5	0.9				
					2.5				
					0.8				
					5.2				
		4	(13-15)	2	2.3				
					7.3	×			
-15	-15							End of boring at 15' bgs	

Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 8/16/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 15' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-28 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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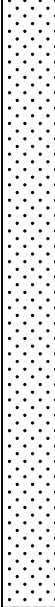
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	2	2.9			(0-0.5) CONCRETE	
					2.8			(0.5-12) SAND, fine to medium, subround; well sorted; moist to wet; brown (10YR 4/3) to yellowish brown (10YR 4/6).	
					1.6	X			
					4.1				2" Sch 40 PVC riser (-2-8' bgs) Bentonite (0-7' bgs)
-5	-5	2	(3-8)	2.5	5.1				
					1.3				
					6.9				
					0.9				
-10	-10	3	(8-13)	5	4.5				
					11.2				
					20.1				
					35.6	X		(12-15) CLAY, some silt, medium to low plasticity; trace sand, trace small to large pebbles, subround; dry; gray (10YR 5/1).	Sand pack (7-13' bgs) 2" Sch 40 PVC, 10 slot well screen (8-13' bgs)
		4	(13-15)	2	17.3				
					13.1				
-15	-15				9.2				
								End of boring at 15' bgs.	



Remarks: BGS = Below ground surface

Groundwater not encountered.
 No staining observed.
 Shake test negative at 11' bgs.
 Temporary well screened from 8-13' bgs.

Date Start/Finish: 8/16/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20'bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-29 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	1.5	3.9			(0-0.5) CONCRETE	
					0.7			(0.5-10) SAND, fine to medium, subround; well sorted; moist to wet; brown (10YR 4/3).	
					0.5				
					0.3				
-5	-5	2	(3-8)	5	1.8				
					0.9				
					1.0				
		3	(8-10)	1.5	2.0				
					1.7				
-10	-10				4.0			(10-20) CLAY, little silt, medium plasticity; trace sand, trace small to medium pebbles, subround; dry to moist; gray (10YR 5/1).	
					4.9				
		4	(10-15)	5	2.8				
					2.6				
					1.2				
-15	-15				2.2				

Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

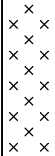


Date Start/Finish: 8/16/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20'bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-29 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
20	-20	5	(15-20)	4.5	3.2 4.6 0.9 1.5 2.1 3.1	X		End of boring at 20' bgs.	
25	-25								
30	-30								
35	-35								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 8/12/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 15' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-30 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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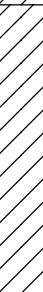
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	8.4			(0-0.5) CONCRETE	Borehole backfilled with bentonite
					1.3			(0.5-3) SAND, fine, and concrete, trace granules, trace small pebbles, subround; well sorted; very pale brown (10YR 8/4) to brown (10YR 4/3). NOTE: fill.	
					6.9				
					81.8			(3-9) CLAY, little silt, low plasticity; trace small to large pebbles, subround; dry; stiff; grayish brown (10YR 5/2). NOTE: odor.	
-5	-5	2	(3-8)	4	301				
					265				
					64.8				
					53.4				
					51.6				
-10	-10	3	(8-15)	7	19.2			(9-15) CLAY, and silt, low plasticity; trace small to large pebbles, subround; dry; very stiff to stiff; grayish brown (10YR 5/2).	
					19.6				
					7.3				
					3.1				
					2.2				
					2.7				
-15	-15				2.6				
								End of boring at 15' bgs.	



Remarks: BGS = Below ground surface

Groundwater not encountered.
 No staining observed.
 Shake test positive from 4-5' bgs.

Date Start/Finish: 8/18/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 10' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-31 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	2	1.5			(0-4) CLAY, little silt, low plasticity; trace sand, trace granules, trace small to medium pebbles, subround; dry; stiff; dark grayish brown (10YR 4/2).	 Borehole backfilled with bentonite
					2.0				
					19.6	X			
					4.3			(4-8.5) CLAY, trace silt, medium plasticity; trace small to large pebbles, subround; dry; stiff to medium stiff; gray (10YR 6/1).	
					6.6				
-5	-5	2	(3-8)	3.3	8.6				
					16.8				
					9.3				
		3	(8-10)	1.5	3.3			(8.5-10) SAND, very fine, some to little silt, well sorted; moist; grayish brown (10YR 3/2).	
-10	-10				4.3	X			
								End of boring at 10' bgs	
-15	-15								

	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 8/17/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-34 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	1.7 3.9 3.7			(0-3) TOPSOIL, clay, some silt, medium plasticity; trace sand, trace small to medium pebbles, subround; moist; medium stiff; dark brown (10YR 2/2).	
					0.2			(3-13) CLAY, little silt, medium to high plasticity; trace small to medium pebbles, subround; moist; medium stiff; very dark gray (10YR 3/1).	
-5	-5	2	(3-8)	4.5	0.8 2.4 0.2 0.3	X			
					1.5 1.8 0.5 1.0				
-10	-10	3	(8-13)	4	1.2 1.8 2.3			(13-18) CLAY, and silt, medium to low plasticity; trace small pebbles, subround; moist; medium stiff; gray (10YR 5/1).	
		4	(13-18)	5					Borehole backfilled with bentonite

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 8/17/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-34 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
					1.6	×			
20	-20	5	(18-23)	4.5	0.9			(18-22) CLAY, little silt, medium to high plasticity; trace small to medium pebbles, subround; moist to dry; stiff, gray (10YR 5/1) NOTE: small sand seam, very fine, brown (10YR 4/3) at 20' bgs.	
					0.7				
					1.3				
					1.1				
					2.2			(22-27.5) CLAY, and silt, medium to low plasticity; trace small to large pebbles, subround; moist; medium stiff, gray (10YR 5/1).	
25	-25	6	(23-28)	4	1.8				
					0.9				
					2.2				
					1.8	×			
					1.3			(27.5-30) SAND, very fine to fine, subround; well sorted; dry to moist; very pale brown (10YR 7/4) to brown (10YR 4/3).	
30	-30	7	(28-30)	1.7	0.7				
								End of boring at 30' bgs	



Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 8/17/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-35 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	2.6 3.3 3.7	X		(0-3) TOPSOIL, clay, some silt, trace sand.	
5	-5	2	(3-8)	3.5	2.5 6.4 2.3 3.2 3.9			(3-10) SILT, some clay, trace small to medium pebbles, subround; dry; stiff; grayish brown (10YR 5/2).	
10	-10	3	(8-13)	4	7.0 4.3 1.8 0.1 0.5			(10-15) CLAY, little silt, high plasticity; trace small to large pebbles, subround; dry to moist; stiff; gray (10YR 5/1).	
15	-15	4	(13-18)	4	2.3 7.8 12.3	X		(15-22) SILT, little clay, small to medium pebbles, subround; very stiff to stiff; dry; brown (10YR 4/3).	Borehole backfilled with bentonite

	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 8/17/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SB-35 Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
20	-20	5	(18-23)	4.5	9.3				
					2.9				
					0.9				
					3.3				
					2.3	X			
					4.1			(22-30) SAND, medium to coarse, little granules, subround; poorly sorted; moist; brown (10YR 4/3) to very pale brown (10YR 7/4).	
25	-25	6	(23-30)	2	NA				
30	-30							End of boring at 30' bgs	
35	-35								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 8/12/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P3-SS-15-RO Client: RACER Trust Location: Lansing Plant 3 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	1.5	5.0			(0-2.5) ASPHALT, and sand, fine, trace granules, trace small pebbles, subround; well sorted; very pale brown (10YR 8/4). NOTE: fill.	
					8.0				
					1.8			(2.5-9) CLAY, little silt, low plasticity; trace small to large pebbles, subround; dry; stiff; grayish brown (10YR 5/2).	
					0.6				
					0.5				
-5	-5	2	(3-8)	5	0.3	X			
					0.8				
					1.0				
					0.5				
					0.6			(9-18) CLAY, high plasticity; trace small to large pebbles, subround; dry; stiff; gray (10YR 6/1).	
-10	-10	3	(8-13)	5	0.9				
					0.5				
					0.2				
					0.7				
-15	-15	4	(13-18)	3	1.2				

Borehole backfilled with bentonite

Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.

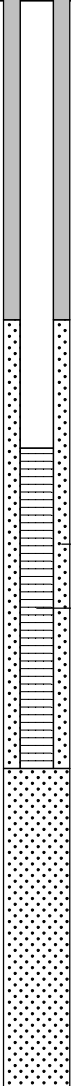


Date Start/Finish: 8/5/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 33' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-MW-1 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-8)	6.5	0.0	X	X	(0-3) FILL, Clay, low plasticity; little sand, dry; stiff; dark yellowish brown (10YR 4/4).	
					0.0	X	X		
					0.5	X	X		
					0.3	X	X	(3-16.5) CLAY, little silt, medium plasticity; trace sand, trace small to very large pebbles, subround; dry; stiff; dark grayish brown (10YR 4/2).	
-5	-5				0.0				
					0.0				
					0.0				
					0.0				
					0.0				
-10	-10	2	(8-13)	4	0.0				2" Sch 40 PVC riser (-2-23' bgs)
					0.0				
					0.0				
					0.1				
					0.0				
					0.9				
-15	-15	3	(13-18)	4	1.0				Bentonite (0-21' bgs)

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater encountered at 18' bgs. No odor or staining observed. Temporary well screened 23-28' bgs.
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Date Start/Finish: 8/5/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 33' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-MW-1 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
					0.1	×		(16.5-18) SAND, fine, subround; little silt; well sorted; moist; yellowish brown (10YR 5/4).	 Sand Pack (21-33' bgs) 2" Stainless Steel, 10 slot well screen (23-28' bgs)
					0.0			(18-19) SAND, medium to coarse, trace small pebbles, subround; well sorted; moist to wet; dark yellowish brown (10YR 4/4).	
					0.0			(19-23) CLAY, some silt, medium plasticity; trace small to very large pebbles, subround; moist; stiff; dark gray (10YR 4/1).	
20	-20	4	(18-23)	NA	0.0				
					0.0				
					0.0	×		(23-27.5) SAND, medium to coarse, trace granules, subround; well sorted; wet; grayish brown (10YR 5/2).	
25	-25				0.0				
					0.0				
					0.0				
					0.0				
		5	(23-33)	9	0.0			(27.5-33) CLAY, and silt, medium plasticity; trace small to large pebbles, subround; medium stiff to stiff; moist; dark gray (10YR 4/1).	
					0.0				
					0.0				
30	-30				0.0				
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
								End of boring at 33' bgs	

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater encountered at 18' bgs. No odor or staining observed. Temporary well screened 23-28' bgs.
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Date Start/Finish: 8/10/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-2 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	0.1		x x	(0-0.5) FILL, crushed concrete, CLAY and SAND, fine, subround; well sorted; dry; yellowish brown (10YR 5/4).	
					0.3			(0.5-9.5) CLAY, little silt, medium to low plasticity; trace small to large pebbles, subround; dry; stiff to very stiff; yellowish brown (10YR 5/4).	
					0.3	X			
					0.0				
-5	-5	2	(3-8)	5	0.1				
					0.0				
					0.3				
					0.4				
					0.1				
					0.2				
					0.3				
-10	-10	3	(8-13)	3.5	0.4			(9.5-16) CLAY, little silt, medium to high plasticity; trace sand, trace small to large pebbles, subround; moist to dry; stiff to medium stiff, gray (10YR 5/1) NOTE: <1cm sand lense, moist to wet.	
					0.6				
					0.2				
					0.1				
					0.2				
-15	-15		(13-18)	4.5	0.3				Borehole backfilled with bentonite

	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 8/10/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-2 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
					0.3			(16-30) CLAY, trace silt, medium to high plasticity; trace small to medium pebbles, subround; dry; dark gray (10YR 2/1).	
					0.3				
					0.8				
20	-20				0.3				
		4	(18-23)	5	0.1				
					0.3				
					0.3				
					2.2				
25	-25	5	(23-25)	2	1.7				
					1.3				
					0.2				
					1.2				
		6	(25-30)	4.5	0.4				
					0.5				
					1.1				
30	-30								
								End of boring at 30' bgs	
35	-35								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 7/25/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-3 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-5)	0.0	0.0			(0-0.5) ASPHALT	
					0.0			(0.5-5.5) SAND, very fine to fine, some clay, little silt, little granules, trace small pebbles, subround to subangular; poorly sorted; dry; dark yellowish brown (10YR 4/6).	
					0.0				
					0.0				
					0.0				
5	-5				0.3				
		2	(5-8)	3.5	0.8			(5.5-13) CLAY, little silt, medium plasticity; little sand, trace small to large pebbles; dry to moist; medium stiff; dark yellowish brown (10YR 4/4) mottled with gray (10YR 5/1).	
					0.7				
					0.0				
					0.1				
10	-10				0.8				
		3	(8-13)	5.0					
					0.7				
					1.0			(13-29.5) CLAY, some silt, medium plasticity; trace small to large pebbles, subround to subangular; moist to dry; stiff; very dark gray (10YR 3/1).	
					2.0				
15	-15				8.5				
		4	(13-18)	5.0					Borehole backfilled with bentonite

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Hand augered to 5' bgs Groundwater not encountered No odor or staining observed
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Date Start/Finish: 7/25/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-3 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
20	-20	5	(18-23)	5.0	9.0				
					4.0				
					0.0				
					0.1				
					0.0				
					0.0				
					0.1				
					0.0				
					0.4				
25	-25	6	(23-30)	7.0	0.5				
					0.2				
					0.3				
					0.3				
					0.7				
30	-30				1.3			(29.5-30) SILT, trace sand, subround to subangular; moist; very dark gray (10YR 3/1).	
								End of boring at 30' bgs	

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Hand augered to 5' bgs Groundwater not encountered No odor or staining observed
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Date Start/Finish: 8/4/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-5 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-8)	6	0.0	×		(0-5) SILT, little clay, nonplastic to low plasticity; dry; soft; brownish yellow (10YR 6/6).	
					0.0				
					0.0				
					0.0				
-5	-5				0.0			(5-5.25) SAND, fine, trace granules, subround; little clay; well sorted; moist to wet; yellowish brown (10YR 5/6).	
					0.0			(5.25-10) SILT, some clay, medium plasticity; trace small to large pebbles, subround; moist; stiff; gray (10YR 5/1).	
					0.0				
					0.0				
					0.0				
-10	-10	2	(8-13)	3.2	0.0			(10-14) CLAY, trace silt, low plasticity; trace small to medium pebbles, subround; dry; very stiff; yellowish brown (10YR 5/4) mottled gray (10 YR 5/1).	
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
-15	-15				0.0			(14-23) SILT, and clay, medium to high plasticity; trace small to medium pebbles, subround; moist; medium stiff to soft; grayish brown (10YR 5/2).	
					0.0				
					0.0				
					0.0				Borehole backfilled with bentonite

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered No odor or staining observed
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Date Start/Finish: 8/3/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-6 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-8)	4.5	0.0			(0-0.5) FILL, crushed concrete, metal wire, rebar, rubber. (0.5-4) SAND, very fine to fine, trace granules to small pebbles, subround; well sorted; moist to wet; brownish yellow (10YR 6/6).	
-5	-5				0.0			(4-5) CONCRETE, crushed	
					0.8			(5-13) CLAY, little silt; trace small to large pebbles, subround; moist; medium stiff; greenish gray (2.5YR 6/1).	
					0.1				
-10	-10				0.0				
					0.7				
		2	(8-18)	5	0.0			(13-27) CLAY, some silt; trace sand, trace granules to large pebbles, subround; dry to moist; medium stiff to stiff; gray (10YR 5/1).	
-15	-15				0.0				

Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered
No odor or staining observed
Temporary well screened 25-30' bgs.

Date Start/Finish: 8/9/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 25' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-7 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	0.3		x x	(0-0.5) FILL, crushed concrete, SAND, fine, subround; well sorted; moist; yellowish brown (10YR 5/6).	
					0.5			(0.5-9) CLAY, little silt, medium plasticity; small to large pebbles, subround; dry; stiff to very stiff; brownish yellow (10YR 6/8) NOTE: roots from 0.5-2.5' bgs.	Bentonite (0-2' bgs)
					0.4				
					0.2				
					0.6				
-5	-5	2	(3-10)	4.5	1.9				
					1.3				
					0.5				2" Sch 40 PVC riser (-2-15' bgs)
					0.3				
					0.2				
-10	-10				0.8			(9-16) CLAY, and silt, high plasticity; trace sand, small to medium pebbles, subround; moist; medium stiff to soft; grayish brown (10YR 5/2).	
					0.5				
					0.3				
		3	(10-15)	4	0.1				Sand Pack (2-25' bgs)
					0.0				
					0.2				
-15	-15				0.1				

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed. Temporary well screened 15-20' bgs.
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Date Start/Finish: 8/9/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 25' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-8 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	2.8	1.3		x x x x x x x x x x	(0-1.5) FILL, crushed concrete, sand, fine, subround, well sorted; dry; yellowish brown (10YR 5/4)	
					1.7			(1.5-15) CLAY, little silt, medium to low plasticity; trace small to large pebbles, subround; dry; very stiff; yellowish brown (10YR 5/8).	
					0.2	X			
					0.2				
-5	-5	2	(3-8)	3.5	1.1				
					0.3				
					0.1				
-10	-10	3	(8-13)	3.5	0.7				
					0.4				
					0.1				
					0.6				
					0.4	X			
-15	-15				0.1			(15-16) SAND, medium to very coarse, trace granules, subround; poorly sorted; wet; gray (10YR 5/1).	

Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

Groundwater encountered at 15' bgs
No odor or staining observed

Date Start/Finish: 7/27/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-9 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-5)	5	1.3			(0-0.5) ASPHALT	
								(0.5-2) SAND, very fine to fine, subround; well sorted; dry; light yellowish brown (10YR 6/4)	
					1.7			(2-7.5) CLAY, medium to high plasticity, some sand, trace silt, trace granules, trace small to medium pebbles, subround to subangular; moist; medium stiff; very dark gray (2.5YR 2.5/1)	
					1.2				
					0.0				
-5	-5				0.0				Bentonite (0-8' bgs)
		2	(5-8)	3.5	0.1				2" Sch 40 PVC riser (-2-10' bgs)
					0.1			(7.5-12) CLAY, and sand, little silt, medium to high plasticity; trace granules, trace small to large pebbles, subround to subangular; moist; stiff, pale brown (10YR 6/3). NOTE: small (1cm thick) sand lenses.	
					0.2				
-10	-10				0.0				
					0.0				
					0.6				Sand Pack (8-30' bgs)
					0.7			(12-30) CLAY, and silt, medium plasticity; trace sand, trace small to large pebbles, subround to subangular; moist; stiff; gray (10YR 6/1).	2" Sch 40 PVC, 10 slot well screen (10-15' bgs)
		3	(8-18)	9	0.0				
					0.1				
-15	-15				0.1				

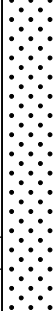
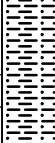
	Remarks: BGS = Below ground surface Hand cleared to 5' bgs. Groundwater not encountered. No odor or staining observed. Temporary well screened from 10'-15' bgs.
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Date Start/Finish: 7/27/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-9 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
					0.2				
					0.5				
					0.1				
20	-20				0.0	X			
					0.1				
					0.0				
					0.0				
		4	(18-30)	12	0.0				
25	-25				0.0				
					0.0				
					0.2				
					0.0				
					0.1				
30	-30				0.0			End of boring at 30' bgs	
35	-35								

	Remarks: BGS = Below ground surface Hand cleared to 5' bgs. Groundwater not encountered. No odor or staining observed. Temporary well screened from 10'-15' bgs.
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Date Start/Finish: 7/27/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-10 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-5)	5	1.4			(0-0.5) ASPHALT	
								(0.5-2) CLAY, medium to high plasticity; little sand; dry to moist; stiff; gray (10YR 5/1) mottled with yellowish brown (10YR 5/6).	
					2.1			(2-7) SAND, little to trace clay, fine to medium, little small to medium pebbles, subround; poorly sorted; dry; light yellowish brown (10YR 6/4).	Backfill (0-4' bgs)
					2.3				
-5	-5	2	(5-8)	3.5	0.5				2" Sch 40 PVC riser (-3-13' bgs)
					0.1				
					0.2			(7-17) SAND, and clay, very fine, subround; well sorted; dry to moist; yellowish brown (10YR 5/4).	Bentonite (4-11' bgs)
					0.6				
-10	-10				0.8				
					0.7				
		3	(8-20)	9					
					1.2				2" Sch 40 PVC, 5 slot well screen (13-18' bgs)
-15	-15								Sand Pack (11-20' bgs)

	Remarks: BGS = Below ground surface Hand auger to 5' bgs. Groundwater not encountered. No odor or staining observed. Temporary well screened from 12-17' bgs. Temporary well reset and screened 13-18' bgs on 7/29/11.
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Date Start/Finish: 7/27/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-10 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
20	-20				0.9			(17-20) CLAY, and silt, medium to low plasticity; dry to moist, stiff, gray (10YR 6/1).	
					3.5	X			
								End of boring at 20' bgs	
25	-25								
30	-30								
35	-35								

	Remarks: BGS = Below ground surface Hand auger to 5' bgs. Groundwater not encountered. No odor or staining observed. Temporary well screened from 12-17' bgs. Temporary well reset and screened 13-18' bgs on 7/29/11.
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Date Start/Finish: 7/26/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 2' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-11a Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	1	(0-2)	2	0.1			(0-0.5) ASPHALT	
					0.5			(0.5-2) SAND, fine, little silt, trace clay, some granules, some small to medium pebbles, subangular; poorly sorted; moist; black (10YR 2/1). NOTE: dark staining and odor.	Borehole backfilled with bentonite
-5	-5							End of boring at 2' bgs due to refusal.	
-10	-10								
-15	-15								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered.
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Date Start/Finish: 8/1/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 10' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-14 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
					NA			(0-3) CONCRETE	
					NA				
					1.9	×		(3-4.5) SAND, fine to medium, trace granules, trace small pebbles, subround; well sorted; wet; yellowish brown (10YR 5/4) NOTE: Fill-like.	
5	-5	1	(0-10)	8.2	1.4			(4.5-10) CLAY, trace silt, high plasticity; trace small to large pebbles, subround; dry to moist; medium stiff, mottled yellowish brown (10YR 5/6) and gray (10YR 5/1).	Borehole backfilled with bentonite
					1.6				
					1.3				
					1.1				
					1.2				
10	-10				0.9	×			
								End of boring at 10' bgs	
15	-15								

	Remarks: BGS = Below ground surface Groundwater not encountered No odor or staining observed
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Date Start/Finish: 8/1/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 13' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-15 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
								(0-3) CONCRETE	
					0.6			(3-6) SAND, fine to medium, trace granules, subround; well sorted; wet; yellowish brown (10YR 5/4) NOTE: Fill-like.	
-5	-5				0.0				
		1	(0-13)	12	0.0				
					0.5	X		(6-13) CLAY, trace silt, high plasticity; trace sand, trace small to large pebbles, subround; dry to moist; medium stiff to stiff; mottled yellowish brown (10YR 5/6) and gray (10YR 6/1).	
					0.2				
					0.3				
-10	-10				0.7				
					0.6				
					0.5	X			
								End of boring at 13' bgs	
-15	-15								

Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

 Groundwater encountered at 3' bgs
 No odor or staining observed

Date Start/Finish: 8/1/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-16 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								

Borehole
backfilled with
bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered
No odor or staining observed

Date Start/Finish: 8/1/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-16 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
20	-20				0.1				
					0.0				
					0.0				
					0.0	X			
								End of boring at 20' bgs	
25	-25								
30	-30								
35	-35								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered No odor or staining observed
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Date Start/Finish: 8/1/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-17 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
					0.4	X	X	(0-0.5) FILL, crushed concrete.	
					1.4			(0.5-7.5) CLAY, trace silt, medium to high plasticity; trace sand, trace small to medium pebbles, subround; dry; medium stiff to stiff; mottled dark yellowish brown (10YR 3/6) and gray (10YR 5/1).	
-5	-5	1	(0-10)	8	0.5				
					0.8				
					0.5			(7.5-20) CLAY, and silt, high plasticity; little sand, trace small to large pebbles, subround; moist; medium stiff to stiff; gray (10YR 5/1).	
					0.0				
-10	-10				0.2	X			
					0.1				
					0.0				
					0.1				
-15	-15	2	(10-20)	7	0.0				
									Borehole backfilled with bentonite

	Remarks: BGS = Below ground surface Groundwater not encountered No odor or staining observed
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Date Start/Finish: 8/3/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 10' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-18 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
								(0-0.5) CONCRETE	
					2.4	X		(0.5-7.5) CLAY, trace silt, medium plasticity; trace small to medium pebbles, subround; dry; stiff; pale brown (10YR 6/3). NOTE: moist; medium stiff at 2' bgs.	Backfill (0-0.5' bgs) 2" Sch 40 PVC riser (-2-3' bgs) Bentonite (0.5-2' bgs)
					3.1				
					2.6				
-5	-5	1	(0-10)	9.5	0.2				Sand Pack (2-10' bgs) 2" Sch 40 PVC, 10 slot well screen (3-8' bgs)
					0.0				
					0.5				
					0.4			(7.5-10) CLAY, little silt, medium to high plasticity; trace sand, trace small to medium pebbles, subround; moist; medium stiff to soft; pale brown (10YR 6/3).	
					0.2				
					0.0	X			
10	-10				0.0			End of boring at 10' bgs	
-15	-15								

	Remarks: BGS = Below ground surface Groundwater not encountered No odor or staining observed Temporary well screened 3-8' bgs.
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Date Start/Finish: 8/10/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 15' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-19 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	2.5	1.3			(0-0.5) CONCRETE	
					0.1			(0.5-14) CLAY, trace silt, medium to high plasticity; trace small to large pebbles, subround; dry to moist; stiff to medium stiff; yellowish brown (10YR 5/4).	
					0.5	X			
					0.3				
-5	-5	2	(3-8)	4	0.8				
					1.1				
					0.8				
					0.3				
		3	(8-10)	2	1.2				
-10	-10				1.0				
					0.4				
		4	(10-15)	5	0.4				
					0.3				
					0.1				
					0.2	X		(14-15) CLAY, little silt, high plasticity; trace sand, trace small to medium pebbles, subround; moist; medium stiff; yellowish brown (10YR 5/4).	
-15	-15							End of boring at 15' bgs	



Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 8/2/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 14' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-20 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
					NA			(0-4) CONCRETE	
-5	-5	1	(0-14)	12	0.0	X		(4-14) CLAY, trace silt, medium plasticity; trace small to very large pebbles, subround; dry; stiff; very dark grayish brown (10YR 3/2). NOTE: color change to light reddish brown (2.5YR 7/3) at 5' bgs.	
					0.0				
					0.0				
					0.2				
					0.3			NOTE: color change to light yellowish brown (10YR 6/4) at 8' bgs.	
					0.0				
-10	-10				0.0				
					0.0				
					0.0				
					0.0				
					0.0				
					1.1	X			
-15	-15							End of boring at 14' bgs	



Remarks: BGS = Below ground surface

Groundwater not encountered
No odor or staining observed

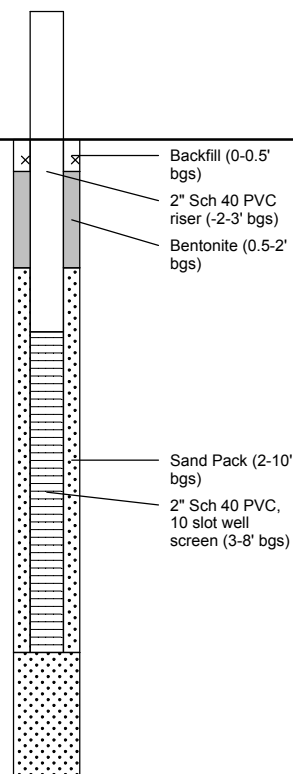
Date Start/Finish: 8/2/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 10' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-21 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
					0.0			(0-0.5) CONCRETE	
					0.1			(0.5-3.5) SAND, medium, trace granules to small pebbles, subround; well sorted; moist to wet; dark yellowish brown (10YR 4/6).	Backfill (0-0.5' bgs)
					0.4			(3.5-9.5) CLAY, trace silt, high plasticity; trace small to medium pebbles, subround; moist; medium stiff to stiff; yellowish brown (10YR 5/4) mottled gray (10YR 5/1).	2" Sch 40 PVC riser (-2-3' bgs)
-5	-5	1	(0-10)	6.5	0.0				Bentonite (0.5-2' bgs)
					0.0				
					0.0				
					0.1				
10	-10				1.4			(9.5-10) CLAY, some silt, low plasticity; trace sand; stiff; very dark gray (10YR 3/1) NOTE: discoloration, slight odor.	Sand Pack (2-10' bgs)
								End of boring at 10' bgs	2" Sch 40 PVC, 10 slot well screen (3-8' bgs)
-15	-15								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered No staining observed Temporary well set 3-8' bgs Oil in Soil Shake test positive 9.5 - 10' bgs
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Date Start/Finish: 7/26/11 Drilling Company: MATECO Drilling Driller's Name: Neal and Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 10' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-22 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-5)	5	0.1			(0-0.5) ASPHALT	
					0.3			(0.5-7) CLAY, and silt, trace sand.	
					0.4				
					1.8				
					4.1				
-5	-5				2.4				
		2	(5-10)	5	5.1			NA	
					35.8	x x x		(7.5-8.5) FILL, moist to wet, very soft, white (10YR 8/1) and gray (10YR 6/1).	
					23.8	x x		NOTE: some sticks and slight odor from 7.5-8.5' bgs	
					10.6			(8.5-9) CLAY, and silt, high plasticity; trace sand, trace granules, trace small pebbles, subround to subangular; moist to wet; soft to very soft; very dark grayish brown (10YR 3/2).	
-10	-10				10.5			(9-10) SAND, fine, little silt, subround to subangular; well sorted; moist to wet; gray (10YR 5/1).	
								End of boring at 10' bgs	
-15	-15								



Remarks: BGS = Below ground surface

Hand auger from 0-5' bgs.
 Groundwater not encountered during drilling.
 No staining observed.
 Temporary well screened from 5'-10' bgs.
 Temporary well reset 7/29/11 from 3'-8' bgs.

Date Start/Finish: 8/3/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 30' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-27 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
					0.4		x x x x x x x x x x	(0-2) FILL, crushed concete, metal rebar, plastic	
					0.8			(2-4) CLAY, low plasticity; dry; stiff; black (10YR 2/1) and dark grayish brown (10YR 4/2).	
-5	-5	1	(0-8)	4	1.6	X		(4-6) CLAY, trace silt, low plasticity; little sand, trace small to medium pebbles, subround; dry; stiff; very dark brown (10YR 2/2).	
					0.6				
					1.5			(6-19) CLAY, trace silt, low plasticity; trace small to very large pebbles, subround; dry; stiff; dark yellowish brown (10YR 4/6).	
-10	-10				0.0				
					0.0				
		2	(8-18)	4.5	0.0				
-15	-15				0.0				

Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered
 No odor or staining observed
 Oil in Soil shake test negative 26-27' bgs.
 Temporary well screened 25-30' bgs.

Date Start/Finish: 8/2/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 12' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-29 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
					0.0			(0-0.5) CONCRETE	
					0.2	X		(0.5-12) CLAY, trace silt, medium plasticity; trace small to very large pebbles, subround; dry; stiff; yellowish brown (10YR 5/4).	
					2.3				
					1.1				
-5	-5	1	(0-12)	7	1.2				
					0.3	X			
-10	-10				1.9				
					2.1				
								End of boring at 12' bgs	
-15	-15								



Remarks: BGS = Below ground surface

Groundwater not encountered
No odor or staining observed

Date Start/Finish: 8/8/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-32 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
20	-20	4	(13-20)	NA	5.4				
					6.1				
					7.3				
					6.9	X			
								End of boring at 20' bgs	
25	-25								
30	-30								
35	-35								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater encountered at 10' bgs. No staining observed. Temporary well screened 7-12' bgs.
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Date Start/Finish: 8/8/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-33 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	2	0.0		x x x x x x x x x x	(0-2) FILL, crushed concrete, clay, nonplastic to low plasticity; trace small to large pebbles, subround; dry; very stiff; dark yellowish brown (10YR 3/6).	
					0.5		x x x x x x x x x x	(2-5) CLAY, medium plasticity; dry to moist; medium stiff to stiff; grayish brown (10YR 5/2)	
					1.2				
					1.6				
-5	-5	2	(3-8)	2.5	1.5		.	(5-7) SAND, fine to medium, trace granules, little small pebbles, subround; some silt; poorly sorted; moist; gray (10YR 5/1).	
					7.6	X		(7-20) CLAY, some silt, medium to high plasticity; trace small to very large pebbles, subround; dry to moist; medium stiff to stiff; gray (10YR 5/1).	
					0.0				
-10	-10				0.0				
					0.0				
					0.0				
		3	(8-20)	5	0.0				
-15	-15				0.0				

Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered.
No odor or staining observed.

Date Start/Finish: 8/8/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-33 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
20	-20				0.0				
					0.0				
					0.0	X			
								End of boring at 20' bgs	
25	-25								
30	-30								
35	-35								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 8/3/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 10' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-37 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
					0.0			(0-5) CLAY, trace silt, low to medium plasticity; trace small to medium pebbles, subround; dry; stiff to very stiff; dark yellowish brown (10YR 4/4).	
					0.1	X			Backfill (0-0.5' bgs)
					0.2				2" Sch 40 PVC riser (-2-5' bgs)
					0.0				Bentonite (0.5-3' bgs)
					0.0				
-5	-5	1	(0-10)	8.8	0.0	X		(5-5.5) CLAY, trace silt, nonplastic to low plasticity; moist; very soft; gray (10YR 5/1) and light gray (10YR 7/1).	
					0.0			(5.5-10) CLAY, little to some silt, high plasticity; trace small to very large pebbles, subround; moist to wet; medium stiff; yellowish brown (10YR 5/4) NOTE: few areas of gray (10YR 5/1).	
					0.1				Sand Pack (3-10' bgs)
					0.0				2" Sch 40 PVC, 10 slot well screen (5-10' bgs)
					0.0				
					0.0	X			
-10	-10				0.0			End of boring at 10' bgs	
-15	-15								

	Remarks: BGS = Below ground surface Groundwater not encountered No odor or staining observed Oil in Soil shake test negative 5-5.5' bgs. Temporary well screened 5-10' bgs.
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Date Start/Finish: 7/28/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 10' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-38 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
					0.0	x x x		(0-0.5) FILL, crushed limestone or concrete, subangular to angular; gray (10YR 5/1). NOTE: 16-64mm.	
						x x x		(0.5-2) FILL, pulverized slag, black (10YR 2/1) NOTE: coal-like.	
					0.0	x x x		(2-3.5) CLAY, trace silt, medium to high plasticity; little sand, trace granules to medium pebbles, subangular; moist to wet; soft to very soft; very dark gray (10YR 3/1).	
					0.0	x x x		(3.5-10) CLAY, medium to high plasticity; trace to little sand, trace granules to medium pebbles, subangular; dry to moist; stiff to very stiff; light brown (7.5YR 6/3).	
-5	-5	1	(0-10)	7	0.0				Borehole backfilled with bentonite
					0.0				
					0.0				
					0.0				
-10	-10							End of boring at 10' bgs	
-15	-15								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered No odor or staining observed
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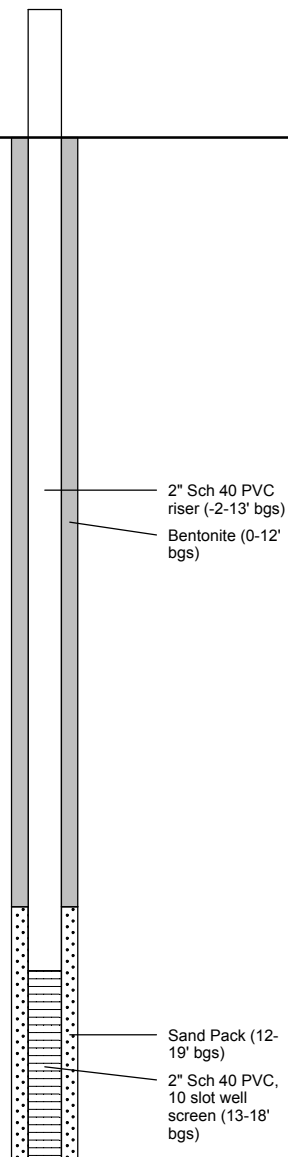
Date Start/Finish: 7/28/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 10' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-39 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
					0.0			(0-2) SAND, little small to medium pebbles, trace granules, subround to subangular; poorly sorted; dry; brown (10YR 5/3) NOTE: Some crushed concrete, 4-32mm.	
					0.0			(2-5) CLAY, trace silt, high plasticity; trace sand, trace small to very large pebbles, subround; dry to moist; stiff; greenish gray (Gley 1 5/5GY).	
-5	-5	1	(0-10)	7	1.0			(5-10) CLAY, trace silt, medium to high plasticity; trace sand, trace small to very large pebbles, subround; dry; stiff; yellowish brown (10YR 5/4).	Borehole backfilled with bentonite
					1.3				
					1.6				
-10	-10				1.4				
								End of boring at 10' bgs	
-15	-15								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered No odor or staining observed
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Date Start/Finish: 7/28/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 35' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-40 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-8)	4.5	0.0			(0-2) SAND, little granules to medium pebbles, subround to subangular; poorly sorted; dry; brown (10YR 5/3) NOTE: Some crushed concrete, 4-32mm.	
					0.0			(2-8) CLAY, little granules, trace small to medium pebbles, subround to subangular; dry; black (10YR 2/1) NOTE: some crushed concrete, 4-32mm.	
-5	-5				0.0				
					0.0				
					0.0				
-10	-10	2	(8-18)	5	0.0			(8-18) SAND, fine, trace silt, subround; well sorted; wet; brown (10YR 5/3).	
					0.0				
					0.0				
					0.0				
-15	-15				0.0				



Remarks: BGS = Below ground surface

Groundwater encountered at 8' bgs
No odor or staining observed
Temporary well screen set from 13-18' bgs.



Date Start/Finish: 8/8/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 27' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-41 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
20	-20	5	(13-20)	6	1800				
					435				
					529				
					280				
					241				
		6	(20-23)	3	402		(20-21.5) SAND, fine to medium, trace granules, subround; poorly sorted; wet; gray (10YR 5/1).		
					82		(21.5-25.5) CLAY, high plasticity; trace small to medium pebbles, subround; moist; medium stiff; dark gray (10YR 4/1).		
					86				
		7	(23-27)	4	47				
					89				
54					(25.5-27) SAND, very fine to fine, subround; well sorted; moist; pale brown (10YR 7/4).				
40									
30	-30							End of boring at 27' bgs	

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater encountered at 8.5' bgs. No odor or staining observed.
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Date Start/Finish: 8/4/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 10' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-42 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-3)	3	236			(0-0.5) FILL, topsoil, trace small to large pebbles, subround; dry; dark brown (10YR 3/3)	
					10.1	X		(0.5-10) SAND, very fine to very coarse, trace small to medium pebbles, subround; poorly sorted; moist to wet; yellowish brown (10YR 5/6).	
					10.0				
					427			NOTE: color change to dark gray (10YR 4/1) at 3' bgs.	
-5	-5				196				
		2	(3-10)	4	1582				
					1583	X			
					782				
					NA				
-10	-10							NOTE: color change to black (10YR 2/1) at 10' bgs.	
								End of boring at 10' bgs	
-15	-15								

Borehole backfilled with bentonite



Remarks: BGS = Below ground surface

Groundwater not encountered
No odor or staining observed

Date Start/Finish: 7/25/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-43 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	(0-5)	0	0.0			(0-1) CONCRETE	
					0.0			(1-8) CLAY, little silt, medium to high plasticity; some sand, trace granule, trace small to medium pebble, subround to subangular; moist; medium stiff to soft; brown (10YR 5/3) mottled with gray (10YR 5/1).	
					0.0				
					0.0				
5	-5	2	(5-8)	3	0.1				
					0.1				
					0.3				
					0.1			(8-13) CLAY, and sand, high plasticity; little silt, trace granule, trace small to large pebble, subround to subangular; wet; soft to very soft; brown (10YR 5/3).	
					0.0				
					0.1				
					0.3				
10	-10				0.0			(13-20) CLAY, little silt, medium plasticity; trace small to very large pebbles, subround to subangular; moist to dry; stiff; very dark gray (10YR 3/1).	
		3	(8-20)	12	0.0				
					0.5				

Borehole
backfilled with
bentonite



Remarks: BGS = Below ground surface

Hand auger to 5' bgs
Groundwater not encountered
No odor or staining observed

Date Start/Finish: 7/25/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: P6-SB-43 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
20	-20				0.6				
					0.0				
					0.0				
								End of boring at 20' bgs	
25	-25								
30	-30								
35	-35								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Hand auger to 5' bgs Groundwater not encountered No odor or staining observed
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Date Start/Finish: 8/8/11 Drilling Company: MATECO Drilling Driller's Name: Jack Drilling Method: Sonic Drilling Sampling Method: Sonic Rig Type: Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 20' bgs Surface Elevation: NA Descriptions By: Austin Westhuis	Well/Boring ID: VEW-5 Client: RACER Trust Location: Lansing Plant 6 Lansing, MI
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DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
20 - 20	4	(13-20)	6.5	8.1 7.6 10.0 10.1 7.3	X		(16-20) CLAY, little silt, high plasticity; trace sand, trace small to large pebbles; subround; dry to moist; soft to medium stiff; gray (10YR 5/1).	
25 - 25							End of boring at 20' bgs	
30 - 30								
35 - 35								

 Infrastructure · Water · Environment · Buildings	Remarks: BGS = Below ground surface Groundwater not encountered. No staining observed. Oil in Soil shake test negative 10-11' bgs.
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Appendix D 1

2012 - Soil Boring Logs

Date Start/Finish: 11.13.12 Drilling Company: Boart Longyear Driller's Name: Steve Argue Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 451123.3268 Easting: 13064646.81 Casing Elevation: NA Borehole Depth: 12.0' bgs Surface Elevation: 862.057983 Descriptions By: Colleen Barton	Well/Boring ID: LMW-12-01 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									Protective Cap
0					NA			(0.0-1.15') CONCRETE.	0.0-0.5' bgs. (Concrete).
860		1	1.0-5.0	5.0	0.2			(1.15-3.0') SAND, fine to medium, trace coarse sand, subangular; well sorted; moist; dark yellowish brown (10YR 4/4).	3.1 ags.-7.0' bgs. (2.0" Sch. 40 PVC Riser).
					0.3			(3.0-5.0') CLAY, low plasticity; trace granules to large pebbles, subangular; dry; stiff; dark yellowish brown (10YR 4/4).	0.5-4.5' bgs. (Neat Cement).
					0.1			NOTE: Moist at 5.0' bgs.	
5					0.1			(5.0-7.6') SAND, fine to medium, trace coarse sand, subrounded; well sorted; moist; yellowish brown (10YR 5/4).	4.5-6.5' bgs. (Filter Pack - K&E #00).
855		2	5.0-10.0	4.65	2.8			(7.6-9.3') CLAY, low plasticity; little fine sand; dry to moist; stiff; yellowish brown (10YR 5/4) mottled by light gray. NOTE: Moist silt seam at 8.8' bgs.	
					4.5			(9.3-9.7') SAND, medium, subrounded; little coarse sand to small pebbles, subrounded; poorly sorted; dry; pale brown (10YR 6/3).	4.5-12.0' bgs. (Filter Pack - K&E #1).
					0.0			(9.7-10.0') SAND, very fine to fine, trace medium sand, subangular; and SILT; poorly sorted; moist to wet; yellowish brown (10YR 5/6).	7.0-12.0' bgs. (10-Slot Stainless Steel Screen).
10		3	10.0-12.0	2.0	0.0			(10.0-12.0') CLAY, trace silt, high plasticity; moist; medium stiff; yellowish brown (10YR 5/6). NOTE: Wet fine sand seam at 11.0' bgs. NOTE: Wet very fine sand seam at 11.8' bgs.	
850					0.0			End of Boring at 12.0' bgs.	
15									

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 9.0'-10.0', at 11.0' and 11.8' bgs. No odor or staining observed.
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Date Start/Finish: 11.14.12 Drilling Company: Boart Longyear Driller's Name: Steve Argue Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 451204.894 Easting: 13064674.72 Casing Elevation: NA Borehole Depth: 10.0' bgs Surface Elevation: 861.974975 Descriptions By: Colleen Barton	Well/Boring ID: LMW-12-02 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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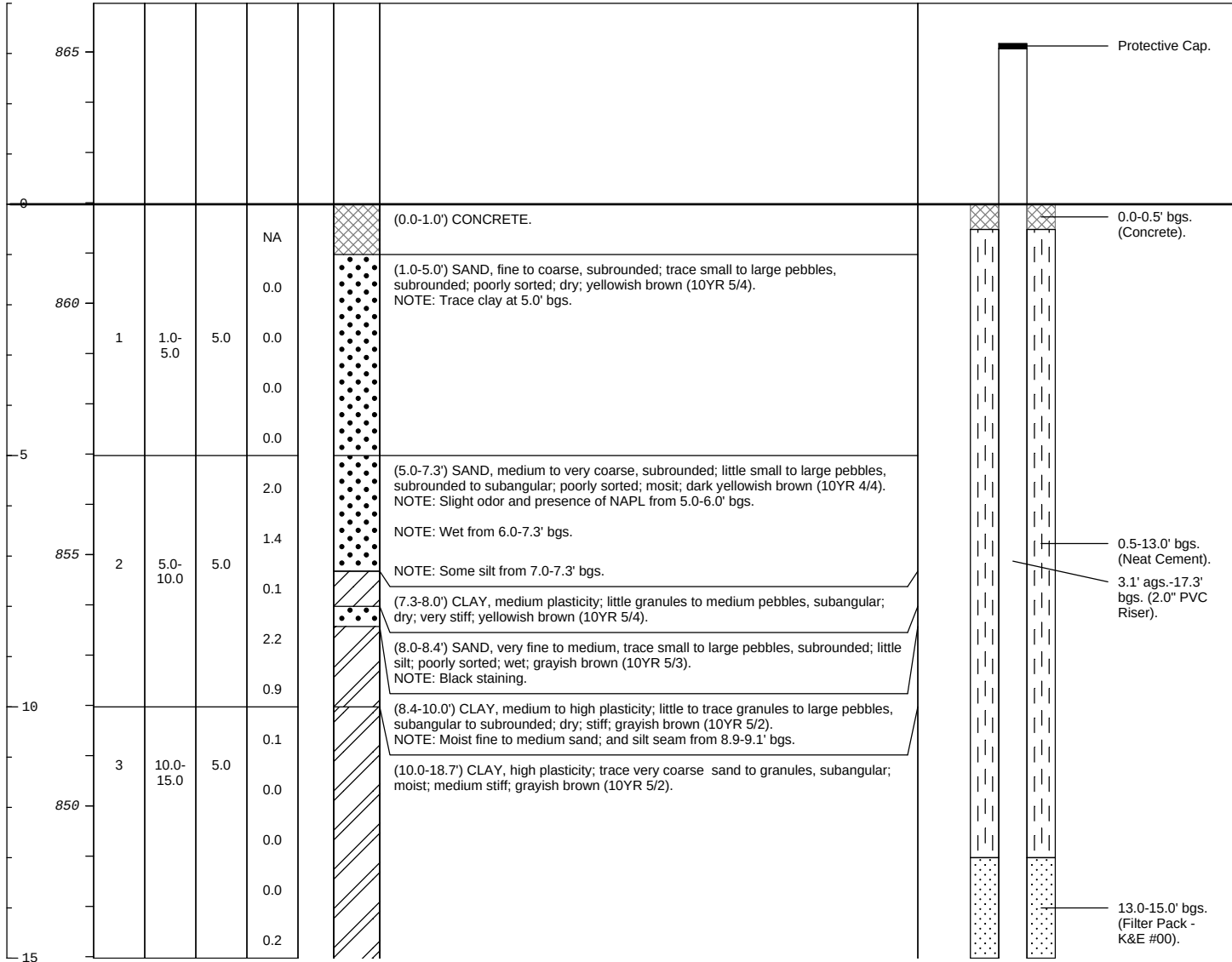
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									Protective Cap
0					NA		(0.0-1.0') CONCRETE.		0.0-0.5' bgs. (Concrete).
860		1	1.0-5.0	5.0	0.2		(1.0-6.3') SAND, very fine to fine; trace silt; well sorted; dry; yellowish brown (10YR 5/4).		-3.1 ags.-5.0' bgs. (2.0" PVC Riser).
					0.1		NOTE: Moderate odor at 4.0' bgs. NOTE: Little silt, rapid dilatancy at 4.0' bgs.		0.5-3.0' bgs. (Neat Cement).
5					0.3				
					0.1		NOTE: Wet at 5.0' bgs.		3.0-4.5' bgs. (Filter Pack - K&E #00).
855		2	5.0-10.0	5.0	0.2		(6.3-10.0') CLAY, high plasticity; trace small pebbles, rounded; dry to moist; stiff; dark grayish brown (10YR 4/2). NOTE: Moderate odor.		4.5-10.0' bgs. (Filter Pack - K&E #1).
					0.4		NOTE: Wet fine sand seam at 8.4' and 9.7' bgs.		5.0-10.0' bgs. (10-Slot Stainless Steel Screen).
10					0.4		NOTE: Trace very large pebbles, rounded at 9.9' bgs.		
							End of Boring at 10.0' bgs.		
850									
15									

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered at 5.0', 8.4' and 9.7' bgs. Moderate odor observed at 4.0' and from 6.3'-10.0' bgs. No staining observed.
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Date Start/Finish: 11.13.12 Drilling Company: Boart Longyear Driller's Name: Steve Argue Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 451108.1058 Easting: 13064729.5 Casing Elevation: NA Borehole Depth: 22.3' bgs. Surface Elevation: 861.968994 Descriptions By: Colleen Barton	Well/Boring ID: LMW-12-03D Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 6.0'-7.3', 8.0'-8.4' and 18.7'-22.0' bgs. Odor observed from 5.0'-6.0' and 18.7'-19.6' bgs. Black staining observed from 8.0'-8.4' bgs. Slight sheen observed from 18.7'-19.6' bgs. NAPL present from 5.0'-6.0' and 18.7'-19.6' bgs.
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Date Start/Finish: 11.13.12 Drilling Company: Boart Longyear Driller's Name: Steve Argue Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 451108.1058 Easting: 13064729.5 Casing Elevation: NA Borehole Depth: 22.3' bgs. Surface Elevation: 861.968994 Descriptions By: Colleen Barton	Well/Boring ID: LMW-12-03D Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	845	4	15.0-20.0	5.0	1.4				
					0.3				
					7.0				
					9.0				
20					6.6			(18.7-22.0') SAND, fine to medium, little small to very large pebbles, subangular; trace coarse sand, subrounded; little silt, trace clay; poorly sorted; wet; dark grayish brown (10YR 4/2). NOTE: Odor and slight sheen from 18.7-19.6' bgs.	
		5	20.0-22.0	2.0	4.3			NOTE: Little clay from 21.2-21.9' bgs.	15.0-22.3' bgs. (Filter Pack - K&E #1).
	840				3.2				17.3-22.3' bgs. (10-Slot Stainless Steel Screen).
								End of Boring at 22.3' bgs.	
25									
	835								
30									
	830								

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 6.0'-7.3', 8.0'-8.4' and 18.7'-22.0' bgs. Odor observed from 5.0'-6.0' and 18.7'-19.6' bgs. Black staining observed from 8.0'-8.4' bgs. Slight sheen observed from 18.7'-19.6' bgs. NAPL present from 5.0'-6.0' and 18.7'-19.6' bgs.
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Date Start/Finish: 11.14.12 Drilling Company: Boart Longyear Driller's Name: Steve Argue Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 451108.1058 Easting: 13064729.5 Casing Elevation: NA Borehole Depth: 9.0' bgs. Surface Elevation: 861.968994 Descriptions By: Colleen Barton	Well/Boring ID: LMW-12-03S Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									Protective Cap.
860		1	1.0-5.0	5.0	NA			(0.0-1.0') CONCRETE.	0.0-0.5' bgs. (Concrete).
					0.1			(1.0-5.0') SAND, fine to coarse, subrounded to subangular; trace to large pebbles, subrounded; trace clay; poorly sorted; dry; yellowish brown (10YR 5/4).	3.1' ags.-4.0' bgs. (2.0" PVC Riser).
					0.0				0.5-2.0' bgs. (Backfill).
					0.0			NOTE: Trace small cobbles, rounded; moist at 4.0' bgs.	2.0-3.0' bgs. (Bentonite).
5					0.0				
		2	5.0-9.0	3.8	4.1			(5.0-7.3') SAND, medium to very coarse, subrounded; little small to large pebbles, subrounded to subangular; poorly sorted; moist; dark yellowish brown (10YR 4/4). NOTE: Slight odor and presence of NAPL from 5.0-6.0' bgs.	
855					1.6			NOTE: Wet from 6.0-7.3' bgs. NOTE: Some silt from 7.0-7.3' bgs.	3.0-9.0' bgs. (Filter Pack - K&E #1).
					0.5			(7.3-8.0') CLAY, medium plasticity; little granules to medium pebbles, subangular; dry; very stiff; yellowish brown (10YR 5/4).	4.0-9.0' bgs. (10-Slot Stainless Steel Screen).
					0.0			(8.0-8.4') SAND, very fine to medium, trace small to large pebbles, subrounded; little silt; poorly sorted; wet; grayish brown (10YR 5/2). NOTE: Black staining; slight sheen.	
10								(8.4-9.0') CLAY, medium to high plasticity; trace granules to large pebbles, subangular to subrounded; dry; stiff; grayish brown (10YR 5/2). End of Boring at 9.0' bgs.	
850									
15									

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 6.0-7.3' and 8.0-8.4' bgs. Odor observed from 5.0-6.0' bgs. NAPL present from 5.0-6.0' bgs. Black staining and slight sheen observed from 8.0-8.4' bgs.
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Date Start/Finish: 11.14.12 - 11.15.12 Drilling Company: Boart Longyear Driller's Name: Steve Argue Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 451047.6023 Easting: 13064731.84 Casing Elevation: NA Borehole Depth: 21.0' bgs. Surface Elevation: 861.984008 Descriptions By: Colleen Barton	Well/Boring ID: LMW-12-04 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
860		1	1.0-5.0	5.0	NA			(0.0-0.5') CONCRETE.	
					0.2			(0.5-3.0') SAND, very fine to fine, little medium to coarse sand, subrounded; trace small pebbles, subrounded; poorly sorted; dry; dark yellowish brown (10YR 4/4).	
					0.0			(3.0-5.0') SAND, very fine to fine, trace medium sand; well sorted; dry; dark yellowish brown (10YR 4/4).	
5					0.0			(5.0-6.0') SAND, fine to medium, trace to little small to medium pebbles, rounded; trace coarse sand, subangular to subrounded; poorly sorted; wet to moist; dark yellowish brown (10YR 4/4).	
					18.3			(6.0-7.5') CONCRETE. NOTE: Subfloor.	
855					NA			(7.5-15.0') NO RECOVERY.	
		2	5.0-15.0	3.5	NA				
					NA				
10					NA				
					NA				
850					NA				
					NA				
					NA				
15					NA				

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 5.0-6.0' and 20.0-21.0' bgs. Slight odor observed from 20.0-21.0' bgs. No staining observed.
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Date Start/Finish: 11.14.12 - 11.15.12 Drilling Company: Boart Longyear Driller's Name: Steve Argue Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 451047.6023 Easting: 13064731.84 Casing Elevation: NA Borehole Depth: 21.0' bgs. Surface Elevation: 861.984008 Descriptions By: Colleen Barton	Well/Boring ID: LMW-12-04 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15								(15.0-20.0') CLAY, high plasticity; trace granules to small pebbles, subangular; moist; soft; gray (10YR 3/1).	
845		3	15.0-20.0	5.0	2.3			NOTE: Dry; stiff at 16.5' bgs.	
					0.8				
					0.0				
					0.0				
					0.0				
20		4	20.0-21.0	1.0	1.6			(20.0-21.0') SAND, fine, trace medium sand; little silt, trace clay; poorly sorted; wet; dark gray (10YR 4/1). NOTE: Slight odor.	
								NOTE: Trace silt, little clay at 20.5' bgs. End of Boring at 21.0' bgs.	
840									
25									
835									
30									
830									

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 5.0-6.0' and 20.0-21.0' bgs. Slight odor observed from 20.0-21.0' bgs. No staining observed.
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Date Start/Finish: 11.15.12 - 11.15.12 Drilling Company: Boart Longyear Driller's Name: Steve Argue Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 451035.464 Easting: 13064601.39 Casing Elevation: NA Borehole Depth: 12.0' bgs. Surface Elevation: 862.080017 Descriptions By: Colleen Barton	Well/Boring ID: LMW-12-05 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									Protective Cap.
0								(0.0-1.9') CONCRETE.	0.0-0.5' bgs. (Concrete).
860		1	1.0-5.0	5.0	NA			(1.9-4.3') CLAY, medium to high plasticity; little medium sand, trace small pebbles, subangular; moist; soft; brown (10YR 4/3). NOTE: Plasticity decreases to low at 4.0' bgs.	3.2' ags.-7.0' bgs. (2.0" PVC Riser).
								(4.3-4.5') SAND, fine to medium, trace coarse sand to small pebbles, subrounded; well sorted; moist to wet; grayish brown (10YR 5/2). NOTE: Slight odor.	0.5-5.0' bgs. (Neat Cement).
5		2	5.0-7.0	2.0	6.0			(4.5-8.0') CLAY, low plasticity; trace granules, subangular; dry; very stiff; dark yellowish brown (10YR 4/4), mottled greenish gray.	5.0-6.5' bgs. (Filter Pack - K&E #00).
855					29.0				
					16.5			(8.0-8.9') SAND, medium to coarse, subrounded; little small to medium pebbles, subrounded; trace granules, subrounded to subangular; poorly sorted; dry; grayish brown (10YR 3/2).	
					52.0			(8.9-10.1') SAND, fine to medium, trace coarse sand, subrounded; well sorted; moist to wet; yellowish brown (10YR 5/4). NOTE: Slight odor; interbedded SILT, slow dilatancy; wet to moist.	6.5-12.0' bgs. (Filter Pack - K&E #1).
10		3	7.0-12.0	5.0	83.1			(10.1-12.0') SAND, very fine to fine; some silt, rapid plasticity; well sorted; wet to moist; yellowish brown (10YR 5/4). NOTE: Slight odor. NOTE: Interbedded sand and silt from 10.1-11.2' bgs.	7.0-12.0' bgs. (10-Slot Stainless Steel Screen).
					32.3				
					21.4				
850								NOTE: Increase to some clay at 11.2' bgs.	
								End of boring at 12.0' bgs.	
15									

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 4.3-4.5' and 8.9-12.0' bgs. Slight odor observed from 4.3-4.5' and 8.9-12.0' bgs. No staining observed.
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Date Start/Finish: 11.15.12 - 11.15.12 Drilling Company: Boart Longyear Driller's Name: Steve Argue Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 451069.8903 Easting: 13064459.82 Casing Elevation: NA Borehole Depth: 9.0' bgs. Surface Elevation: 862.106018 Descriptions By: Colleen Barton	Well/Boring ID: LMW-12-06 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0								(0.0-1.6') CONCRETE.	Protective Cap.
860		1	1.0-5.0	5.0	NA			(1.6-3.5') SAND, very fine to fine, little coarse sand, subrounded; little granules to medium pebbles, subrounded; poorly sorted; moist; brown (10YR 5/2). NOTE: Odor.	0.0-0.5' bgs. (Concrete).
					5.5				2.85' ags.-4.0' bgs. (2.0" PVC Riser).
					7.8				0.5-2.0' bgs. (Backfill).
					23.7			(3.5-8.0') SAND, very fine to fine; trace silt; well sorted; moist to wet; light yellowish brown (10YR 6/4).	2.0-3.0' bgs. (Bentonite).
5					2.0				
								NOTE: Wet from 5.0-6.0' bgs.	
855		2	5.0-9.0	4.0	0.6			NOTE: Silt seams at 6.5' and 7.0' bgs.	3.0-9.0' bgs. (Filter Pack - K&E #1).
					0.1			NOTE: Increase silt from 7.0-8.0' bgs.	4.0-9.0' bgs. (10-Slot Stainless Steel Screen).
					0.5			(8.0-9.0') CLAY, some silt, high plasticity; moist; yellowish brown (10YR 5/6). NOTE: Interbedded silt.	
					3.6			NOTE: Some very fine sand at 8.5' bgs. NOTE: Color change to dark grayish brown clay; silt decreases to trace at 8.5' bgs.	
10								End of Boring at 9.0' bgs.	
850									
15									

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 5.0-6.0' bgs. Odor observed from 1.6-3.5' bgs. No staining observed.
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Date Start/Finish: 11.15.12 - 11.15.12 Drilling Company: Boart Longyear Driller's Name: Steve Argue Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 451140.571 Easting: 13064883.66 Casing Elevation: NA Borehole Depth: 9.0' bgs. Surface Elevation: 861.521972 Descriptions By: Colleen Barton	Well/Boring ID: LMW-12-07 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0								(0.0-1.35') ASPHALT.	Protective Cap.
860		1	1.0-5.0	5.0	NA			(1.35-4.0') SAND, medium to very coarse, subrounded; little granules to medium pebbles; poorly sorted; dry to moist; yellowish brown (10YR 5/4). NOTE: Moist; slight odor; NAPL potentially present at 3.5' bgs..	0.0-0.5' bgs. (Concrete). 2.6' ags.-4.0' bgs. (2.0" PVC Riser).
					0.2				0.5-2.0' bgs. (Backfill).
					0.3				2.0-3.0' bgs. (Bentonite).
5					0.4			(4.0-9.0') SAND, fine to coarse, subrounded; some small to large pebbles, subrounded; trace clay; poorly sorted; wet; dark gray (10YR 4/1). NOTE: Slight odor.	
					3.6			NOTE: Little clay; strong odor at 5.0' bgs.	
855		2	5.0-9.0	2.5	0.1				3.0-9.0' bgs. (Filter Pack - K&E #1).
					3.3			NOTE: Color change to very dark gray (10YR 3/1); faint sheen from 8.0-9.0' bgs.	4.0-9.0' bgs. (10-Slot Stainless Steel Screen).
10								End of Boring at 9.0' bgs.	
850									
15									

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 4.0-9.0' bgs. Slight odor observed at 3.5' and from 4.0-9.0' bgs. Strong odor observed at 5.0' bgs. Faint sheen observed from 8.0-9.0' bgs.
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Date Start/Finish: 11.15.12 - 11.16.12 Drilling Company: Boart Longyear Driller's Name: Steve Argue Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 451201.8558 Easting: 13064825.98 Casing Elevation: NA Borehole Depth: 13.0' bgs. Surface Elevation: 861.30603 Descriptions By: Colleen Barton	Well/Boring ID: LMW-12-08 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									Protective Cap.
860		1	1.0-5.0	5.0	NA			(0.0-1.1') CONCRETE.	0.0-0.5' bgs. (Concrete).
					0.2			(1.1-8.5') SAND, fine to medium, little granules to small pebbles, subrounded; poorly sorted; dry; dark yellowish brown (10YR 5/6).	
					0.1			NOTE: Trace large pebbles, subrounded at 4.0' bgs.	2.9' ags.-8.0' bgs. (2.0" PVC Riser).
					0.1			NOTE: Increase sand from fine to coarse; trace silt.	0.5-5.75' bgs. (Neat Cement).
5					0.0				
855		2	5.0-8.0	2.6	0.0			NOTE: Wet at 8.0' bgs.	5.75-7.5' bgs. (Filter Pack - K&E #00).
					0.6				
					1.5				
		3	8.0-13.0	5.0	2.1			(8.5-10.8') SAND, fine to medium, little coarse sand to granules, subrounded; trace medium pebbles, rounded; trace silt; poorly sorted; wet; stained black (10YR 2/1). NOTE: Strong odor and NAPL present. Pulls away from grains in threads.	
10					7.5				
					8.9			(10.8-12.3') CLAY, high plasticity; trace fine sand, trace large pebbles, subrounded; moist; soft; light greenish gray (GLEY 1 7/1). NOTE: slight odor.	7.5-13.0' bgs. (Filter Pack - K&E #1).
850					0.5			NOTE: Change to very soft at 11.0' bgs.	8.0-13.0' bgs. (10-Slot Stainless Steel Screen).
					14.1			NOTE: Fine, wet sand seam at 12.0' bgs.	
								(12.3-13.0') SAND, medium to very coarse, subrounded; little granules, trace small pebbles, subrounded; trace silt; poorly sorted; wet; dark gray (10YR 4/1). NOTE: Strong odor.	
								NOTE: Rainbow sheen and NAPL present. Pulls away from grains in threads.	
15								End of Boring at 13.0' bgs.	

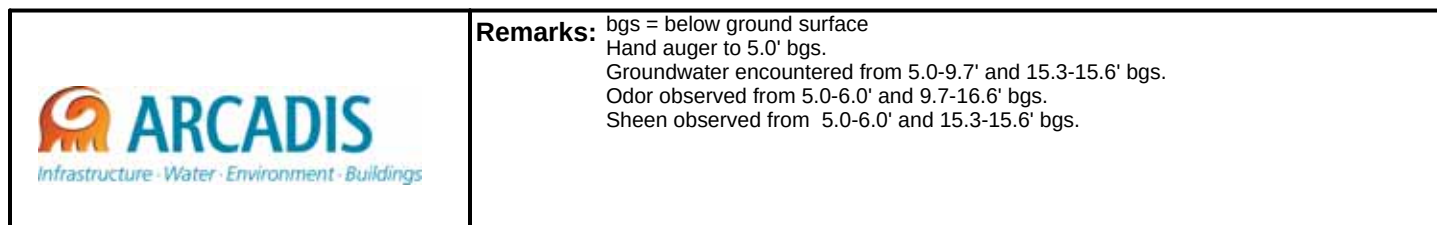
	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered at 8.0', from 8.5-10.8', at 12.0' and from 12.3-13.0' bgs. Strong odor observed from 8.5-13.0' bgs. NAPL present, pulls away from grains in threads, from 8.5-10.8' and 12.3-13.0' bgs. Black staining observed from 8.5-10.8' bgs. Rainbow sheen observed from 12.3-13.0' bgs.
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Date Start/Finish: 11.19.12 Drilling Company: Boart Longyear Driller's Name: Steve Argue Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 453880.1641 Easting: 13064942.68 Casing Elevation: NA Borehole Depth: 8.0' bgs. Surface Elevation: 861.776977 Descriptions By: Colleen Barton	Well/Boring ID: LMW-12-09 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									Protective Cap.
860		1	1.0-5.0	5.0	NA			(0.0-0.9') CONCRETE.	3.2' ags -3.0' bgs. (2.0" PVC Riser).
					9.0			(0.9-2.0') SAND, fine to coarse, subrounded; little granules to medium pebbles, subrounded; poorly sorted; dry; yellowish brown (10YR 5/4).	0.0-0.5' bgs. (Concrete).
					0.9			(2.0-6.5') CLAY, medium to high plasticity; little fine sand, trace large pebbles, rounded; moist; medium stiff; brown (10YR 4/3).	0.5-2.0' bgs. (Backfill).
					0.5				2.0-2.5' bgs. (Bentonite).
					0.4			NOTE: Little to some small to large pebbles, rounded at 4.0' bgs.	
5								NOTE: Color change to dark grayish brown (10YR 4/2); slight odor at 5.0' bgs. NOTE: Little small to large pebbles, subrounded; moist to wet; slight odor from 5.0-6.5' bgs. NOTE: Decrease in clay; increase in fine sand at 6.0' bgs.	2.5-8.0' bgs. (Filter Pack - K&E #1).
855		2	5.0-8.0	3.0	0.0			(6.5-7.0') SAND, very fine to fine, little small to large pebbles, rounded; trace clay; poorly sorted; wet; dark gray (10YR 4/1). NOTE: Slight odor.	3.0-8.0' bgs. (10-Slot Stainless Steel Screen).
					1.0			(7.0-8.0') CLAY, high plasticity; trace to little granules to medium pebbles, subrounded; moist; medium stiff; grayish brown (10YR 4/2).	
					0.0			End of Boring at 8.0' bgs.	
10									
850									
15									

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 5.0-7.0' bgs. Odor observed from 5.0-7.0' bgs. No staining observed.
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[illegible]

Date Start/Finish: 11.20.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 453638.3809 Easting: 13064968.3 Casing Elevation: NA Borehole Depth: 21.0' bgs. Surface Elevation: 863.461975 Descriptions By: Colleen Barton	Well/Boring ID: LMW-12-10 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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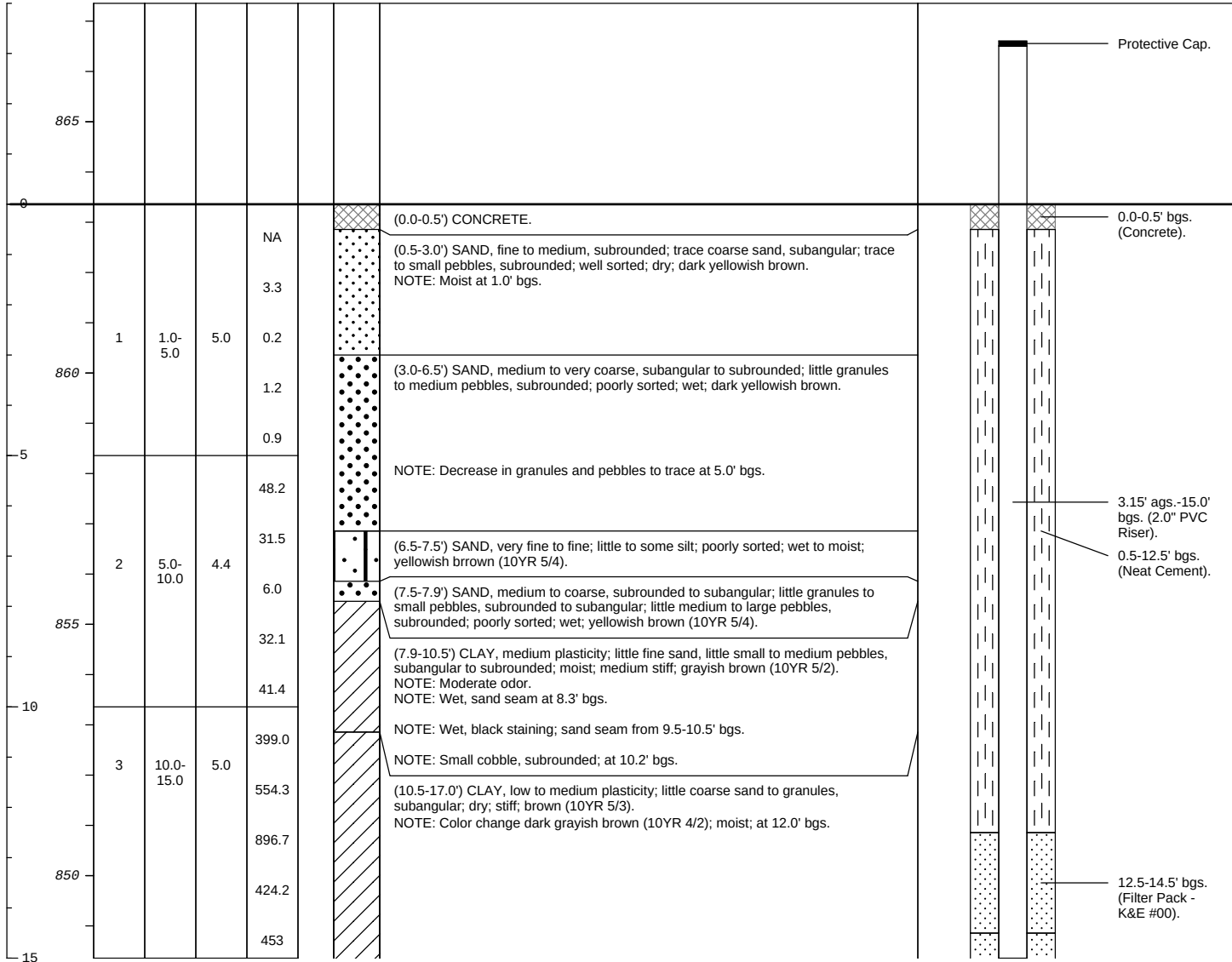
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15		4	15.0-21.0	6.0	431.2			NOTE: Wire debris at 15.0' bgs. (15.3-15.6') SAND, fine to medium, trace coarse sand, subangular to subrounded; well sorted; wet; brown (10YR 4/3). NOTE: Strong odor; faint sheen. (15.6-21.0') CLAY, high plasticity; trace coarse sand to granules, subangular; moist to dry; medium stiff; dark grayish brown (10YR 4/2). NOTE: Moderate odor from 15.6-16.6' bgs. NOTE: Pocket of very coarse sand and small pebbles, angular; dry; at 20.5' bgs.	13.5-19.0' bgs. (Filter Pack - K&E #1). 14.0-19.0' bgs. (10-Slot Stainless Steel Screen). 19.0-21.0' bgs. (Backfill).
845					388.1				
					131.6				
20					8.9				
					537.8				
					219.2				
								End of boring at 21.0' bgs.	
840									
25									
835									
30									
830									

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 5.0-9.7' and 15.3-15.6' bgs. Odor observed from 5.0-6.0' and 9.7-16.6' bgs. Sheen observed from 5.0-6.0' and 15.3-15.6' bgs.
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Date Start/Finish: 11.20.12 Drilling Company: Boart Longyear Driller's Name: Steve Argue Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 453634.6702 Easting: 13064934.79 Casing Elevation: NA Borehole Depth: 24.0' bgs. Surface Elevation: 863.356994 Descriptions By: Colleen Barton	Well/Boring ID: LMW-12-11 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 3.0-7.9', at 8.3', from 9.5-10.5' and 17.0-20.1' bgs. Odor observed from 7.9-10.5' and 15.0-20.4' bgs. Black staining observed from 9.5-10.5' bgs. Faint sheen observed from 17.0-19.0' bgs.
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Date Start/Finish: 11.20.12 Drilling Company: Boart Longyear Driller's Name: Steve Argue Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 453634.6702 Easting: 13064934.79 Casing Elevation: NA Borehole Depth: 24.0' bgs. Surface Elevation: 863.356994 Descriptions By: Colleen Barton	Well/Boring ID: LMW-12-11 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15		4	15.0-17.0	2.0	1900			NOTE: Large cobble at 15.0' bgs. NOTE: Moderate odor from 15.0-17.0' bgs. NOTE: Some fine to coarse sand; moist; from 15.4-15.8' bgs.	
					1944				
845		5	17.0-24.0	7.0	1630			(17.0-18.9') SAND, medium to very coarse sand, subrounded; some small to medium pebbles, subrounded; trace silt; poorly sorted; wet; grayish brown (10YR 5/2). NOTE: Strong odor.	14.5-20.0' bgs. (Filter Pack - K&E #1).
					1445			(18.9-20.1') SILT, trace clay, nonplastic, slow dilatancy; some very fine sand, little small to medium pebbles, subrounded to subangular; moist to wet; grayish brown (10YR 5/2). NOTE: Strong odor.	15.0-20.0' bgs. (10-Slot Stainless Steel Screen).
20					1643			(20.1-21.0') CLAY, high plasticity; little granules to small pebbles, subangular; dry to moist; medium stiff; gray (10YR 5/1). NOTE: Faint sheen from 17.0-19.0' bgs.	
					76.4			(21.0-23.0') CLAY, low plasticity; little fine sand, trace granules, subangular; dry; very stiff; brown (10YR 4/3).	
					68.7				
					74.1				
840					125.3			(23.0-24.0') CLAY, nonplastic; some fine sand, little coarse sand to granules, subrounded; dry; hard; yellowish brown (10YR 5/6).	20.0-24.0' bgs. (Backfill).
								End of boring at 24.0' bgs.	
25									
835									
30									
830									

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 3.0-7.9', at 8.3', from 9.5-10.5' and 17.0-20.1' bgs. Odor observed from 7.9-10.5' and 15.0-20.4' bgs. Black staining observed from 9.5-10.5' bgs. Faint sheen observed from 17.0-19.0' bgs.
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Date Start/Finish: 3-19-2012/3-23-2012 Drilling Company: Boart Longyear Driller's Name: Chris Barden Drilling Method: Hand Auger/Sonic Sampling Method: HA/10' sonic/5'sonic/5' rock core Rig Type: Prosonic Fullsize ATV Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 110' bgs Surface Elevation: NA Descriptions By: Lance Rogers	Well/Boring ID: MW-12-01 Client: RACER Location: RACER Lansing Plant 2 2801 West Saginaw Lansing, MI 48909
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
									 Locking Aluminum Cap
0	0							(0-1) GRASS/TOPSOIL	
		1	1-5	5	0.2			(1-2) SAND; very fine, trace roots, some clay, well sorted; dry, dark yellowish brown (10YR 3/4)	
					0.2			(3-10) SAND; very fine to fine, little medium sand, trace granule, sub rounded to sub angular, trace clay, poorly sorted; dry, dark yellowish brown (10YR 4/4)	
					0.2				
					0.3				
5	-5	2	5-7	2.0	NA			NOTE: Sand is moist to wet from (7-9.5' bgs) with a color change to dark gray (10YR 4/1).	
					NA				
					0.3				
10	-10	3	7-17	10.0	0.4			(10-17) CLAY; medium to high plasticity, little medium sand to small pebble, sub rounded to sub angular; dry, stiff, dark gray (10YR 4/1)	
					0.4				
15	-15				0.4			(17-27) CLAY; little silt, high plasticity, trace very fine sand, trace very coarse sand, sub rounded to sub angular; dry to moist, medium stiff, dark yellowish brown (10YR 5/6)	
					0.4				

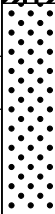
	Remarks: bgs = below ground surface ags = above ground surface Hand auger to 5' bgs Groundwater encountered at 7' bgs. No odor or staining observed.
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Date Start/Finish: 3-19-2012/3-23-2012 Drilling Company: Boart Longyear Driller's Name: Chris Barden Drilling Method: Hand Auger/Sonic Sampling Method: HA/10' sonic/5'sonic/5' rock core Rig Type: Prosonic Fullsize ATV Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 110' bgs Surface Elevation: NA Descriptions By: Lance Rogers	Well/Boring ID: MW-12-01 Client: RACER Location: RACER Lansing Plant 2 2801 West Saginaw Lansing, MI 48909
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
-20	-20	4	17-27	2.1	0.0				
-25	-25				0.0				
-30	-30	5	27-37	4.5	0.0			(27-49) CLAY; little silt, high plasticity, slow dilatancy, little very fine to fine sand, trace very coarse sand to small pebble, sub rounded to sub angular; moist to wet, soft, dark gray (10YR 4/1) NOTE: Moist to wet from (27-33' bgs).	
-35	-35				0.0			NOTE: CLAY is medium stiff to stiff at 33' bgs.	
-40	-40	6	37-42	6.3	0.0			NOTE: CLAY is stiff at 39' bgs.	
					0.0				
					0.0				
					0.0				

	Remarks: bgs = below ground surface ags = above ground surface Hand auger to 5' bgs Groundwater encountered at 7' bgs. No odor or staining observed.
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Date Start/Finish: 3-19-2012/3-23-2012 Drilling Company: Boart Longyear Driller's Name: Chris Barden Drilling Method: Hand Auger/Sonic Sampling Method: HA/10' sonic/5'sonic/5' rock core Rig Type: Prosonic Fullsize ATV Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 110' bgs Surface Elevation: NA Descriptions By: Lance Rogers	Well/Boring ID: MW-12-01 Client: RACER Location: RACER Lansing Plant 2 2801 West Saginaw Lansing, MI 48909
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction		
45	-45	7	42-47	6.1	0.0			NOTE: Lose trace small pebble and add little clay at 43' bgs.			Grout (0-87' bgs)
					0.0						
					0.0						
50	-50	8	47-52	6.0	0.0		(49-53) SAND; fine to medium, little coarse sand to small pebble, sub rounded to sub angular, poorly sorted; dry, gray (10YR 5/1)				
					0.0						
					0.0						
55	-55	9	52-57	7.5	0.0		NOTE: SAND was moist to wet from (52-52' bgs).				
					0.0						
					0.0						
60	-60	10	57-67	12.0	0.0		(53-68) CLAY and SAND; little silt, medium plasticity, very fine to coarse sand, little granule to medium pebble, sub rounded to sub angular; dry, stiff, very dark gray (10YR 3/1)				
					0.0						
					0.0						
65	-65				0.0						
					0.0						
					0.0						

	Remarks: bgs = below ground surface ags = above ground surface Hand auger to 5' bgs Groundwater encountered at 7' bgs. No odor or staining observed.
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Date Start/Finish: 3-19-2012/3-23-2012 Drilling Company: Boart Longyear Driller's Name: Chris Barden Drilling Method: Hand Auger/Sonic Sampling Method: HA/10' sonic/5'sonic/5' rock core Rig Type: Prosonic Fullsize ATV Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 110' bgs Surface Elevation: NA Descriptions By: Lance Rogers	Well/Boring ID: MW-12-01 Client: RACER Location: RACER Lansing Plant 2 2801 West Saginaw Lansing, MI 48909
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
68	68				0.0				
					0.0				
					0.0			(68-73) Weathered SHALE/SANDSTONE mix	
70	-70	11	67-77	12.0	0.0				
					0.0			(73-75) SHALE; pulverized by sonic.	
75	-75				0.0			(75-87) SANDSTONE; pulverized by sonic	
					0.0				
					NA				
					NA				
80	-80	12	77-82	NA	NA				
					NA				
					NA				
					NA				
					NA				
					NA				
85	-85	13	82-87	NA	NA				
					NA				
					NA				
					NA				
					NA			(87-110) Saginaw Formation; sedimentary rock, fine to medium grains, rock strength is soft (can break with bare hands).	

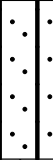
	Remarks: bgs = below ground surface ags = above ground surface Hand auger to 5' bgs Groundwater encountered at 7' bgs. No odor or staining observed.
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Date Start/Finish: 3-19-2012/3-23-2012 Drilling Company: Boart Longyear Driller's Name: Chris Barden Drilling Method: Hand Auger/Sonic Sampling Method: HA/10' sonic/5' sonic/5' rock core Rig Type: Prosonic Fullsize ATV Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 110' bgs Surface Elevation: NA Descriptions By: Lance Rogers	Well/Boring ID: MW-12-01 Client: RACER Location: RACER Lansing Plant 2 2801 West Saginaw Lansing, MI 48909
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
90 - 90		14	87-90	2.1	NA			NOTE: Natural fracturing at 88' bgs; edges are weathered and very fine sediment deposits on both fractured surfaces.	
					NA				
					NA			NOTE: Fractures with very fine black sediment deposits from (90-92' bgs).	
					NA				
		15	90-95	4.85	NA			NOTE: No natural fracturing from (92-94' bgs). Mechanical fractures are present.	
					NA				
95 - 95					NA			NOTE: Natural fracture at contact between sandstone and shale formation (94-95' bgs).	
					NA			NOTE: Sandstone with interbedded shale pieces from (94.5-97' bgs).	
					NA				
		16	95-100	4.90	NA			NOTE: Sandstone with abundant natural fractures from (97-101' bgs); some of the fractures have seperated while others remained intact; the seperated fractures are filled with very fine black sediments.	
					NA				
100 - 100					NA				
					NA			NOTE: Sandstone contains interbedded shale pieces from (101-102.5' bgs).	
					NA				
		17	100-105	4.50	NA			NOTE: Shale layer from (102.5-103' bgs).	
					NA			NOTE: Sandstone with interbedded shale pieces from (103-110' bgs).	
105 - 105					NA				
					NA			NOTE: Abundant natural fracturing from (105-110' bgs).	
					NA				
		18	105-110	4.80	NA				
					NA				
110 - 110					NA				
								End of boring at 110' bgs.	

	Remarks: bgs = below ground surface ags = above ground surface Hand auger to 5' bgs Groundwater encountered at 7' bgs. No odor or staining observed.
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Date Start/Finish: 3-20-2012/3-23-2012 Drilling Company: Boart Longyear Driller's Name: Chris Barden Drilling Method: Hand Auger/Sonic Sampling Method: Hand auger/10' sonic/5' rock core Rig Type: Prosonic Fullsize ATV Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 110' bgs Surface Elevation: NA Descriptions By: Lance Rogers	Well/Boring ID: MW-12-02 Client: RACER Location: RACER Lansing Plant 2 2801 West Saginaw Lansing, MI 48909
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
									 Locking Aluminum Cap
0	0							(0-1) ASPHALT/CONCRETE	
		1	1-5	5.0	0.2	X		(1-5) SAND; fine to coarse, little very coarse sand to small pebble, sub rounded to sub angular, trace clay, poorly sorted; dry, very dark gray (10YR 3/1)	
					0.2				
5	-5				0.2			(5-8) SAND and SILT; very fine to fine, trace medium to very coarse sand, trace granule to large pebble, subrounded to subangular, poorly sorted; dry, light olive brown (2.5Y 5/6)	
								(8-11) SAND and CLAY; very fine to fine, trace medium sand to large pebble, subrounded to subangular, little silt, poorly sorted; dry, dark gray (10YR 4/1)	
10	-10	2	5-17	6.7	0.3			(11-12) Granite boulder	
								(12-17) UNKNOWN; recovered 8" piece of the granite boulder from above, no soil recovered	
15	-15				0.0			(17-29) CLAY; little silt, high plasticity, no dilatancy, trace very coarse sand to small pebble, subrounded to subangular; dry to moist, medium stiff, dark gray (10YR 4/1)	

	Remarks: bgs = below ground surface ags = above ground surface Hand auger to 5' bgs Groundwater encountered at 7' bgs. No odor or staining observed.
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Date Start/Finish: 3-20-2012/3-23-2012 Drilling Company: Boart Longyear Driller's Name: Chris Barden Drilling Method: Hand Auger/Sonic Sampling Method: Hand auger/10' sonic/5' rock core Rig Type: Prosonic Fullsize ATV Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 110' bgs Surface Elevation: NA Descriptions By: Lance Rogers	Well/Boring ID: MW-12-02 Client: RACER Location: RACER Lansing Plant 2 2801 West Saginaw Lansing, MI 48909
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
-20	-20	3	17-27	12.0	0.0				
					0.0				
					0.0				
					0.0				
-25	-25				0.0				
					0.0				
					0.0				
					0.0				
-30	-30	4	27-37	12.0	0.0			(29-32) SAND; very fine to medium, little coarse to small pebble, subrounded to subangular, little silt, poorly sorted; moist to wet, dark gray (10YR 4/1)	
					0.0			NOTE: moist to wet at 30' bgs.	
					0.0			(32-45) CLAY; little silt, medium to high plasticity, no dilatancy, little coarse sand to small pebble, subrounded to subangular, dry, stiff, dark gray (10YR 4/1)	
					0.0				
-35	-35				0.0				
					0.0				
					0.0				
					0.0				
-40	-40				0.0				
					0.0				
					0.0				
					0.0				

	Remarks: bgs = below ground surface ags = above ground surface Hand auger to 5' bgs Groundwater encountered at 7' bgs. No odor or staining observed.
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Date Start/Finish: 3-20-2012/3-23-2012 Drilling Company: Boart Longyear Driller's Name: Chris Barden Drilling Method: Hand Auger/Sonic Sampling Method: Hand auger/10' sonic/5' rock core Rig Type: Prosonic Fullsize ATV Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 110' bgs Surface Elevation: NA Descriptions By: Lance Rogers	Well/Boring ID: MW-12-02 Client: RACER Location: RACER Lansing Plant 2 2801 West Saginaw Lansing, MI 48909
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
		5	37-47	11.0					
					0.0				
45	-45				0.0			(45-59) SAND; very fine to fine, trace medium sand, well sorted; dry, gray (10YR 6/1)	
					0.0				
								NOTE: sand is moist at 48' bgs with a color change to grayish brown (10YR 5/2).	
50	-50				0.0				
		6	47-57	4.0	0.0				
					0.0				
55	-55				0.0				
					0.0			NOTE: wet at 57' bgs.	
					0.0				
60	-60				0.0			(59-69) CLAY and SILT; low plasticity, little fine to medium sand, trace very coarse sand to small pebble, subrounded to subangular; dry, stiff, very dark gray (10YR 3/1)	
					0.0				
		7	57-67	13.0	0.0				
					0.0				
65	-65				0.0				

	Remarks: bgs = below ground surface ags = above ground surface Hand auger to 5' bgs Groundwater encountered at 7' bgs. No odor or staining observed.
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Date Start/Finish: 3-20-2012/3-23-2012 Drilling Company: Boart Longyear Driller's Name: Chris Barden Drilling Method: Hand Auger/Sonic Sampling Method: Hand auger/10' sonic/5' rock core Rig Type: Prosonic Fullsize ATV Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 110' bgs Surface Elevation: NA Descriptions By: Lance Rogers	Well/Boring ID: MW-12-02 Client: RACER Location: RACER Lansing Plant 2 2801 West Saginaw Lansing, MI 48909
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
68	-68				0.0				
		8	67-69	NA					
70	-70							(69-110) SANDSTONE; Saginaw Formation, sedimentary rock, fine grained, rock strength is soft. NOTE: Sandstone was pulverized due to excessive sonic vibration resulting in no solid recovery from (69-87' bgs).	
75	-75								
		9	69-87	NA					
80	-80								
85	-85								
								NOTE: 4" steel casing set at 87' bgs.	

	Remarks: bgs = below ground surface ags = above ground surface Hand auger to 5' bgs Groundwater encountered at 7' bgs. No odor or staining observed.
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Date Start/Finish: 3-20-2012/3-23-2012 Drilling Company: Boart Longyear Driller's Name: Chris Barden Drilling Method: Hand Auger/Sonic Sampling Method: Hand auger/10' sonic/5' rock core Rig Type: Prosonic Fullsize ATV Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 110' bgs Surface Elevation: NA Descriptions By: Lance Rogers	Well/Boring ID: MW-12-02 Client: RACER Location: RACER Lansing Plant 2 2801 West Saginaw Lansing, MI 48909
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
90 -90		10	87-95	4.7				NOTE: (90-95' bgs) pulverized weatherd shale.	
95 -95		11	95-100	4.5				NOTE: shale inclusions in sandstone with abundant natural fracturing from (95-97' bgs). Fractures are filled with very fine black sediment deposits. NOTE: natural fractures with very fine black deposits from (98-99' bgs). NOTE: sandstone from (99-103' bgs) is the same as sandstone at 88' bgs.	
100 -100		12	100-105	4.9				NOTE: abundant natural fracturing with very fine sediment deposits and shale inclusions from (103-105' bgs).	
105 -105		13	105-110	2.0				NOTE: sandstone has small shale inclusions and no natural fracturing from (105-110' bgs).	
110 -110								End of boring at 110' bgs.	

	Remarks: bgs = below ground surface ags = above ground surface Hand auger to 5' bgs Groundwater encountered at 7' bgs. No odor or staining observed.
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Date Start/Finish: 3-22-2012/3-26-2012 Drilling Company: Boart Longyear Driller's Name: Chris Barden Drilling Method: Hand Auger/Sonic Sampling Method: Hand auger/10' sonic/5' rock core Rig Type: Prosonic Fullsize ATV Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 80' bgs Surface Elevation: NA Descriptions By: Lance Rogers	Well/Boring ID: MW-12-03 Client: RACER Location: RACER Lansing Plant 6 401 N. Verlinden St. Lansing, MI 48909
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								 Locking Aluminum Cap
		1	1-7	8.0	0.0			(0-0.7) ASPHALT	
					0.0			(0.7-6.0) SAND; very fine to medium, trace coarse sand, little clay, well sorted; dry, brown (10YR 4/3)	
					0.0			(6-7.5) CLAY; little silt, high plasticity, no dilatancy, trace very fine to fine sand; dry to moist, medium stiff, dark gray (10YR 4/1)	
					0.0			(7.5-9) SAND; fine to medium, trace coarse to very coarse, subrounded to subangular, well sorted; moist, dark yellowish brown (10YR 4/6)	
					0.0			(9-12) SAND and SILT; very fine to medium, well sorted; moist, dark gray (10YR 4/1)	

	Remarks: bgs = below ground surface ags = above ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 3-22-2012/3-26-2012 Drilling Company: Boart Longyear Driller's Name: Chris Barden Drilling Method: Hand Auger/Sonic Sampling Method: Hand auger/10' sonic/5' rock core Rig Type: Prosonic Fullsize ATV Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 80' bgs Surface Elevation: NA Descriptions By: Lance Rogers	Well/Boring ID: MW-12-03 Client: RACER Location: RACER Lansing Plant 6 401 N. Verlinden St. Lansing, MI 48909
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
-15	-15	2	7-17	11.0	0.0			(12-15) SAND; fine to coarse, trace very coarse sand, subrounded to subangular, poorly sorted; moist, dark gray (10YR 4/1)	
					0.0				
					0.0			(15-38) SILT and SAND; little clay, medium plasticity, very fine to fine sand; dry to moist, medium stiff, dark gray (10YR 4/1)	
					0.0				
					0.0			NOTE: becomes SILT with trace very fine to fine sand at 18' bgs.	
					0.0				
-20	-20				0.0				
					0.0				
		3	17-27	13.0	0.0				
					0.0				
					0.0				
-25	-25				0.0			NOTE: SILT now has little medium to coarse sand, trace granule to small pebbles, subrounded to subangular; dry, stiff.	

	Remarks: bgs = below ground surface ags = above ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 3-22-2012/3-26-2012 Drilling Company: Boart Longyear Driller's Name: Chris Barden Drilling Method: Hand Auger/Sonic Sampling Method: Hand auger/10' sonic/5' rock core Rig Type: Prosonic Fullsize ATV Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 80' bgs Surface Elevation: NA Descriptions By: Lance Rogers	Well/Boring ID: MW-12-03 Client: RACER Location: RACER Lansing Plant 6 401 N. Verlinden St. Lansing, MI 48909
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
		5	37-47	12.0				NOTE: red colored pebbles in gravel mix at 41' bgs.	
45	-45								
								(45-78.2) SANDSTONE; Grand River Formation, sedimentary rock, grain size ranges from fine to medium with no apparent fining, rock strength is soft throughout the formation encountered.	
								NOTE: pulverized sandstone due to sonic drilling from (45-57' bgs).	
50	-50								
		6	47-57	10					
55	-55								
								NOTE: cored grout mixture out of casing from (55-57' bgs).	

	Remarks: bgs = below ground surface ags = above ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 3-22-2012/3-26-2012 Drilling Company: Boart Longyear Driller's Name: Chris Barden Drilling Method: Hand Auger/Sonic Sampling Method: Hand auger/10' sonic/5' rock core Rig Type: Prosonic Fullsize ATV Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 80' bgs Surface Elevation: NA Descriptions By: Lance Rogers	Well/Boring ID: MW-12-03 Client: RACER Location: RACER Lansing Plant 6 401 N. Verlinden St. Lansing, MI 48909
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
60	-60	7	57-60	2.4				NOTE: 4" steel casing set at 57' bgs.	
65	-65	8	60-65	2.8				NOTE: grain size of sandstone expands to include larger medium grains.	
								NOTE: natural fractures filled with very fine black sediment from (66-67' bgs).	
		9	65-70	4.6				NOTE: unbroken fracture filled with very fine sediment at 68' bgs.	
70	-70							NOTE: abundant natural fracturing with infilled fine black sediments from (70-73.5' bgs).	3.5" Open bore hole (57-80' bgs)

	Remarks: bgs = below ground surface ags = above ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 3-22-2012/3-26-2012 Drilling Company: Boart Longyear Driller's Name: Chris Barden Drilling Method: Hand Auger/Sonic Sampling Method: Hand auger/10' sonic/5' rock core Rig Type: Prosonic Fullsize ATV Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 80' bgs Surface Elevation: NA Descriptions By: Lance Rogers	Well/Boring ID: MW-12-03 Client: RACER Location: RACER Lansing Plant 6 401 N. Verlinden St. Lansing, MI 48909
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction		
75	-75	10	70-75	5.0				NOTE: shale layer from (73.5-74' bgs). NOTE: no natural fracturing from (74-78.2' bgs). Mechanical fractures present.			
		11	75-80	4.5							
80	-80							(78.2-80) SHALE; Saginaw Formation, sedimentary rock, grain size is very fine			
85	-85							End of boring at 80' bgs.			

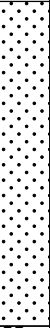
	Remarks: bgs = below ground surface ags = above ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 3-22-2012/3-26-2012 Drilling Company: Boart Longyear Driller's Name: Chris Barden Drilling Method: Hand Auger/Sonic Sampling Method: Hand auger/10' sonic/5' rock core Rig Type: Prosonic Fullsize ATV Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 80' bgs Surface Elevation: NA Descriptions By: Lance Rogers	Well/Boring ID: MW-12-03 Client: RACER Location: RACER Lansing Plant 6 401 N. Verlinden St. Lansing, MI 48909
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction

	Remarks: bgs = below ground surface ags = above ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 3-28-2012/3-30-2012 Drilling Company: Boart Longyear Driller's Name: Chris Barden Drilling Method: Hand Auger/Sonic Sampling Method: HA/10' sonic/5' rock core Rig Type: Prosonic Fullsize ATV Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 100' bgs Surface Elevation: NA Descriptions By: Lance Rogers	Well/Boring ID: MW-12-04 Client: RACER Location: RACER Lansing Plant 3 Offsite 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	1-5	5.0	0.1			(0-1) GRASS/TOPSOIL	
								(1-5) SAND; fine to medium, well sorted; dry, dark yellowish brown (10YR 4/4) NOTE: color change to very dark brown from (3-4' bgs). NOTE: add little clay with a color change to dark grayish brown at 4' bgs.	 Backfill with topsoil  J-Plug
5	-5	2	5-7	1.2	0.1			(5-8) CLAY; high plasticity, no dilatancy, trace granule, subrounded to subangular; dry, medium stiff, light olive brown (2.5Y 5/6)	
					0.3				
					0.0			(8-17) CLAY; little silt, high plasticity, no dilatancy, trace medium to coarse sand, little very coarse to granule, subrounded to subangular; dry, medium stiff to stiff, dark gray (10YR 4/1)	
10	-10	3	7-17	12.0	0.1				
					0.1				

	Remarks: bgs = below ground surface Hand auger to 5' bgs Groundwater encountered at 17' bgs. No odor or staining observed.
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Date Start/Finish: 3-28-2012/3-30-2012 Drilling Company: Boart Longyear Driller's Name: Chris Barden Drilling Method: Hand Auger/Sonic Sampling Method: HA/10' sonic/5' rock core Rig Type: Prosonic Fullsize ATV Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 100' bgs Surface Elevation: NA Descriptions By: Lance Rogers	Well/Boring ID: MW-12-04 Client: RACER Location: RACER Lansing Plant 3 Offsite 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
15	-15				0.0				
					0.0				
					0.0				
					0.0			(17-18.5) SAND; fine to coarse, trace very coarse sand to granule, subrounded to subangular, poorly sorted; wet, grayish brown (10YR 5/2)	
					0.0			(18.5-24) SILT; little clay, medium plasticity, little fine to medium sand, trace coarse sand to granule, subrounded to subangular; dry, very stiff, olive gray (5Y 4/2)	
20	-20				0.0				
		4	17-27	10.0	0.0				
					0.0				
					0.0				
25	-25				0.0			(24-44) SAND; very fine to fine, trace medium sand, well sorted; dry, brown (10YR 5/3)	
					0.0				
					0.0				

	Remarks: bgs = below ground surface Hand auger to 5' bgs Groundwater encountered at 17' bgs. No odor or staining observed.
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Date Start/Finish: 3-28-2012/3-30-2012 Drilling Company: Boart Longyear Driller's Name: Chris Barden Drilling Method: Hand Auger/Sonic Sampling Method: HA/10' sonic/5' rock core Rig Type: Prosonic Fullsize ATV Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 100' bgs Surface Elevation: NA Descriptions By: Lance Rogers	Well/Boring ID: MW-12-04 Client: RACER Location: RACER Lansing Plant 3 Offsite 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
30 -30		5	27-37	2.5	0.0				
35 -35					0.0				
40 -40		6	37-47	4.5	0.0				4" Welded steel Riser (0.4-77' bgs) Grout (0-77' bgs)

	Remarks: bgs = below ground surface Hand auger to 5' bgs Groundwater encountered at 17' bgs. No odor or staining observed.
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Date Start/Finish: 3-28-2012/3-30-2012 Drilling Company: Boart Longyear Driller's Name: Chris Barden Drilling Method: Hand Auger/Sonic Sampling Method: HA/10' sonic/5' rock core Rig Type: Prosonic Fullsize ATV Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 100' bgs Surface Elevation: NA Descriptions By: Lance Rogers	Well/Boring ID: MW-12-04 Client: RACER Location: RACER Lansing Plant 3 Offsite 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
45	-45				0.0			(44-49) SAND; very fine to fine, little medium sand, trace coarse, some silt/clay, well sorted; moist, dark gray (10YR 4/1)	
					0.0				
					0.0				
50	-50				0.0			(49-54) SAND; very fine to medium, well sorted; moist, dark gray (10YR 4/1)	
		7	47-57	9.0	0.0				
					0.0				
55	-55				0.0			(54-64) CLAY and SILT; low to medium plasticity, some very fine to fine sand, trace medium sand to granule, subrounded to subangular; dry, stiff very dark grayish brown (10YR 3/2)	
					0.0				
					0.0				

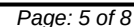
	Remarks: bgs = below ground surface Hand auger to 5' bgs Groundwater encountered at 17' bgs. No odor or staining observed.
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Well/Boring ID: MW-12-04

Client: RACER

Location: RACER Lansing Plant 3 Offsite
2800 West Saginaw Hwy.
Lansing, MI 48909

Remarks: bgs = below ground surface
Hand auger to 5' bgs
Groundwater encountered at 17' bgs.
No odor or staining observed.



Date Start/Finish: 3-28-2012/3-30-2012 Drilling Company: Boart Longyear Driller's Name: Chris Barden Drilling Method: Hand Auger/Sonic Sampling Method: HA/10' sonic/5' rock core Rig Type: Prosonic Fullsize ATV Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 100' bgs Surface Elevation: NA Descriptions By: Lance Rogers	Well/Boring ID: MW-12-04 Client: RACER Location: RACER Lansing Plant 3 Offsite 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
75 - 75									
		10	77-80	2.0					
80 - 80									
		11	80-85	2.9					
85 - 85									
		12	85-90	5.0				NOTE: natural fracturing with very fine black sediment deposits infilling from (85-97' bgs). NOTE: natural fracture with sediment infilling at 86.5' bgs. NOTE: natural fracture with sediment infilling at 87' bgs.	

	Remarks: bgs = below ground surface Hand auger to 5' bgs Groundwater encountered at 17' bgs. No odor or staining observed.
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Date Start/Finish: 3-28-2012/3-30-2012 Drilling Company: Boart Longyear Driller's Name: Chris Barden Drilling Method: Hand Auger/Sonic Sampling Method: HA/10' sonic/5' rock core Rig Type: Prosonic Fullsize ATV Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 100' bgs Surface Elevation: NA Descriptions By: Lance Rogers	Well/Boring ID: MW-12-04 Client: RACER Location: RACER Lansing Plant 3 Offsite 2800 West Saginaw Hwy. Lansing, MI 48909
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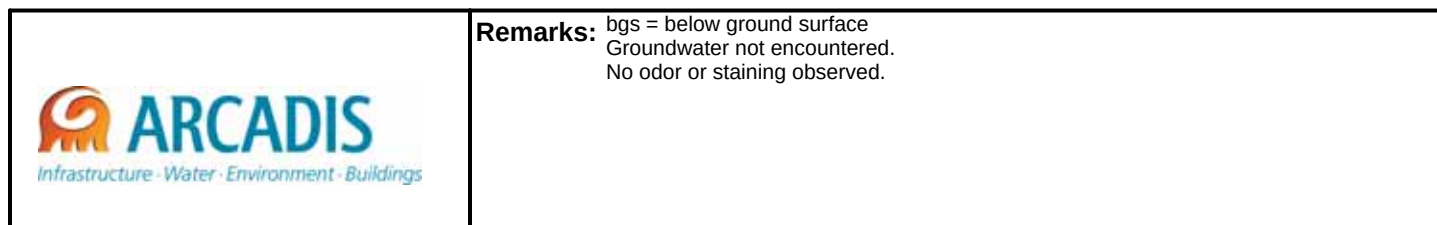
DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction		
90	-90							NOTE: natural fracture with sediment infilling at 88.5' bgs.			3.5" Open bore hole (77-100' bgs)
		13	90-95	3.5				NOTE: natural fracture with sediment infilling at 92' bgs.			
95	-95							NOTE: natural fracture with sediment infilling at 95' bgs.			
		14	95-100	4.0				NOTE: natural fracture with sediment infilling at 97' bgs.			
100	-100							End of boring at 100' bgs.			

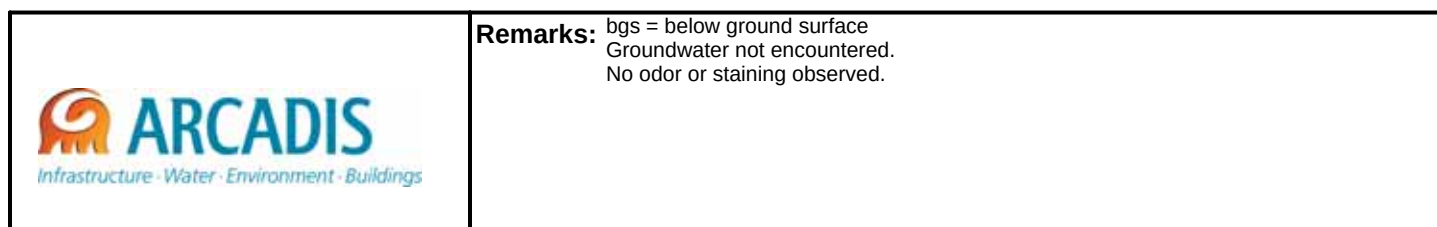
	Remarks: bgs = below ground surface Hand auger to 5' bgs Groundwater encountered at 17' bgs. No odor or staining observed.
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Date Start/Finish: 3-28-2012/3-30-2012 Drilling Company: Boart Longyear Driller's Name: Chris Barden Drilling Method: Hand Auger/Sonic Sampling Method: HA/10' sonic/5' rock core Rig Type: Prosonic Fullsize ATV Sonic	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 100' bgs Surface Elevation: NA Descriptions By: Lance Rogers	Well/Boring ID: MW-12-04 Client: RACER Location: RACER Lansing Plant 3 Offsite 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
105-105									
110-110									

	Remarks: bgs = below ground surface Hand auger to 5' bgs Groundwater encountered at 17' bgs. No odor or staining observed.
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[illegible]

[illegible]

Date Start/Finish: 9.10.12-9.11.12 Drilling Company: Boart Longyear Driller's Name: Scott Parkes Drilling Method: Sonic Sampling Method: 10' sonic/10' rock core Rig Type: Fullsize Sonic	Northing: 451146.6106 Easting: 13064575.33 Casing Elevation: NA Borehole Depth: 99.0' bgs Surface Elevation: 862.07 Descriptions By: Lance Rogers	Well/Boring ID: MW-12-05 Client: RACER Location: RACER Lansing Plant 2 2800 West Saginaw Hwy. Lansing, MI 48909
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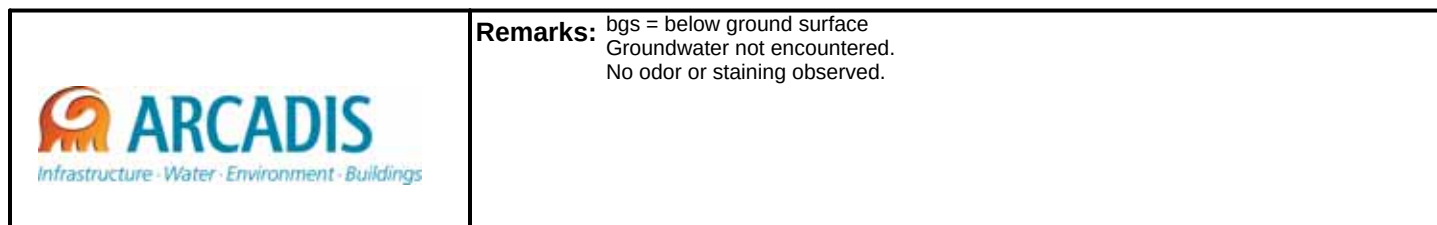
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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30					0.0				
					0.0				
					0.0				
830					0.0			(31.0-36.0') SAND, very fine to fine; some silt; well sorted; dry; dark grayish brown (10YR 4/1).	
					0.0				
35					0.0				
					0.0				
825					0.0			(36.0-38.5') SAND, fine to coarse, trace very coarse sand; well sorted; dry; dark gray (10YR 4/1).	
					0.0				
40					0.0			(38.5-40.0') CLAY, some silt, low plasticity; little fine to coarse sand, trace very coarse sand to small pebbles, subrounded to subangular; dry; stiff; dark gray (10YR 4/1).	
	6	36.0-46.0	9.6		0.0			(40.0-41.0') SILT, no dilatancy; dry; medium stiff; dark gray (10YR 4/1).	
820					0.0			(41.0-46.0') CLAY, some silt, low plasticity; little fine to coarse sand, trace very coarse sand to small pebbles, subrounded to subangular; dry; stiff; dark gray (10YR 4/1).	
					0.0				
					0.0				
					0.0				

Grout (0.5-75.0 bgs)

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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Date Start/Finish: 9.10.12-9.11.12 Drilling Company: Boart Longyear Driller's Name: Scott Parkes Drilling Method: Sonic Sampling Method: 10' sonic/10' rock core Rig Type: Fullsize Sonic	Northing: 451146.6106 Easting: 13064575.33 Casing Elevation: NA Borehole Depth: 99.0' bgs Surface Elevation: 862.07 Descriptions By: Lance Rogers	Well/Boring ID: MW-12-05 Client: RACER Location: RACER Lansing Plant 2 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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60								(60.0-62.0') SHALE/SANDSTONE; weathered; very dark gray (10YR 3/1).		
800								(62.0-66.0') SANDSTONE; pulverized.		
		9	62.5-66.0	3.5	0.0					
					0.0					
65					0.0					
					0.0					
795								(66.0-99.0') SANDSTONE and SHALE, fine to medium grains; rock strength is weak. NOTE: Saginaw formation; interbedded.		
70		10	66.0-75.0	9.0						
790										
75		11	75.0-79.0	3.3				NOTE: Begin rock coring at 75.0' bgs; well case set.		

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 9.10.12-9.11.12 Drilling Company: Boart Longyear Driller's Name: Scott Parkes Drilling Method: Sonic Sampling Method: 10' sonic/10' rock core Rig Type: Fullsize Sonic	Northing: 451146.6106 Easting: 13064575.33 Casing Elevation: NA Borehole Depth: 99.0' bgs Surface Elevation: 862.07 Descriptions By: Lance Rogers	Well/Boring ID: MW-12-05 Client: RACER Location: RACER Lansing Plant 2 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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770									
95									
765									
100								End of boring at 99.0' bgs.	
760									
105									
755									

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 9.11.12-9.13.12 Drilling Company: Boart Longyear Driller's Name: Scott Parkes / Jim Vanconant Drilling Method: Sonic Sampling Method: 10' sonic/10' rock core Rig Type: Fullsize Sonic	Northing: 451127.2963 Easting: 13064994.17 Casing Elevation: NA Borehole Depth: 99.5' bgs Surface Elevation: 861.45 Descriptions By: Lance Rogers	Well/Boring ID: MW-12-06 Client: RACER Location: RACER Lansing Plant 2 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
860					0.0			(0.0-0.9') CONCRETE.	
				NA				(0.9-1.5') SAND, fine to coarse, trace very coarse sand to granules, subrounded to subangular; moist; dark yellowish brown (10YR 4/6).	
				0.0				(1.5-6.5') CLAY, some silt, medium plasticity; little fine to medium sand, trace granules to small pebbles, subrounded to subangular; dry; stiff; dark brown (10YR 3/3).	
				0.0				NOTE: Color change to olive gray (5Y 4/2) at 4.0' bgs.	
5					0.0				
855					0.0			(6.5-8.0') SAND, fine to medium, little coarse to very coarse sand, trace granules, subrounded to subangular; well sorted; moist; brown (10YR 4/3).	
					0.0				
				NA				(8.0-24.0') CLAY, some silt, medium plasticity; trace fine to coarse sand, little very coarse sand to granules, subrounded to subangular; dry; medium stiff; dark gray (10YR 4/1).	
10					0.0				
850					0.0			NOTE: Very stiff to hard from 11.0' bgs down.	

	Remarks: bgs = below ground surface Groundwater encountered at No odor or staining observed.
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Date Start/Finish: 9.11.12-9.13.12 Drilling Company: Boart Longyear Driller's Name: Scott Parkes / Jim Vanconant Drilling Method: Sonic Sampling Method: 10' sonic/10' rock core Rig Type: Fullsize Sonic	Northing: 451127.2963 Easting: 13064994.17 Casing Elevation: NA Borehole Depth: 99.5' bgs Surface Elevation: 861.45 Descriptions By: Lance Rogers	Well/Boring ID: MW-12-06 Client: RACER Location: RACER Lansing Plant 2 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15					0.0				
					0.0				
					0.0				
					0.0				
845					0.0				
					0.0				
					0.0				
					0.0				
20		3	16.0-26.0	11.7	0.0				
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
25					0.0			(24.0-28.0') SILT, little clay, slow dilatancy; wet; medium stiff to soft; dark gray (10YR 4/1).	
					0.0				
					0.0				
835		4	26.0-36.0	10.8	0.0				
					NA				

	Remarks: bgs = below ground surface Groundwater encountered at No odor or staining observed.
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Date Start/Finish: 9.11.12-9.13.12 Drilling Company: Boart Longyear Driller's Name: Scott Parkes / Jim Vanconant Drilling Method: Sonic Sampling Method: 10' sonic/10' rock core Rig Type: Fullsize Sonic	Northing: 451127.2963 Easting: 13064994.17 Casing Elevation: NA Borehole Depth: 99.5' bgs Surface Elevation: 861.45 Descriptions By: Lance Rogers	Well/Boring ID: MW-12-06 Client: RACER Location: RACER Lansing Plant 2 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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					0.0			(28.0-28.7') SAND, fine to medium, trace coarse sand; well sorted; wet; dark grayish brown (10YR 4/2).		
					NA			(28.7-54.0') CLAY, little silt; medium to coarse sand, trace granules to small pebbles, subrounded to subangular; dry; stiff to very stiff; dark gray (10YR 4/1).		
30					0.0					
	830				NA					
					0.0					
					NA					
					0.0					
35					0.0					
					0.0					
	825				0.0					
					0.0					
					0.0					
					0.0					
40		5	36.0-46.0	12.0	0.0					
					0.0					
					0.0					
					0.0					
	820				0.0					
					0.0					
					0.0					
					0.0					
					0.0					
					0.0					

	Remarks: bgs = below ground surface Groundwater encountered at No odor or staining observed.
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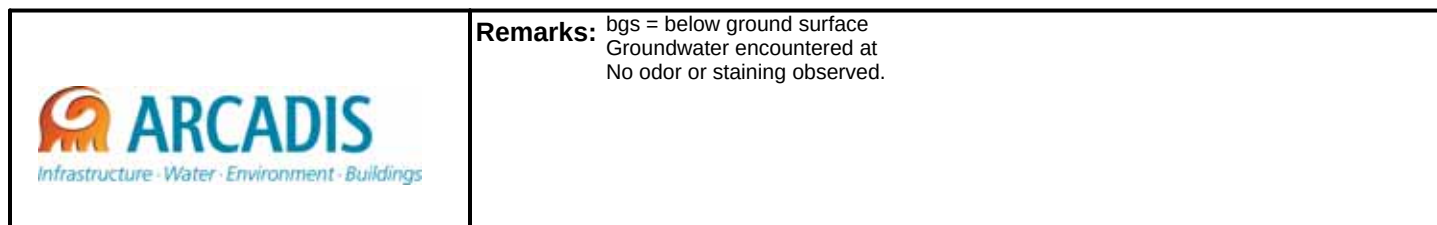
Date Start/Finish: 9.11.12-9.13.12 Drilling Company: Boart Longyear Driller's Name: Scott Parkes / Jim Vanconant Drilling Method: Sonic Sampling Method: 10' sonic/10' rock core Rig Type: Fullsize Sonic	Northing: 451127.2963 Easting: 13064994.17 Casing Elevation: NA Borehole Depth: 99.5' bgs Surface Elevation: 861.45 Descriptions By: Lance Rogers	Well/Boring ID: MW-12-06 Client: RACER Location: RACER Lansing Plant 2 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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45					0.0				
					0.0				
815					0.0				
					0.0				
					0.0				
50		6	46.0-56.0	11.0	0.0				
					0.0				
810					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
55					0.0			(54.0-55.0') SAND, fine to coarse, trace very coarse sand to granules, subrounded to subangular; poorly sorted; dry; gray (10YR 5/1).	
					0.0			(55.0-57.0') CLAY, little silt; medium to coarse sand, trace granules to small pebbles, subrounded to subangular; dry; stiff to very stiff; dark gray (10YR 4/1).	
805					0.0				
					0.0				
					0.0			(57.0-59.0') SAND, fine to medium, trace coarse sand to granules, subrounded to subangular; poorly sorted; dry; gray (10YR 6/1).	
					0.0				
		7	56.0-66.0	9.8	0.0				
					0.0			(59.0-61.0') CLAY, little silt; medium to coarse sand, trace granules to small pebbles, subrounded to subangular; dry; stiff to very stiff; dark gray (10YR 4/1). NOTE: Large fragments of sandstone.	
60					NA				

	Remarks: bgs = below ground surface Groundwater encountered at No odor or staining observed.
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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Date Start/Finish: 9.11.12-9.13.12 Drilling Company: Boart Longyear Driller's Name: Scott Parkes / Jim Vanconant Drilling Method: Sonic Sampling Method: 10' sonic/10' rock core Rig Type: Fullsize Sonic	Northing: 451127.2963 Easting: 13064994.17 Casing Elevation: NA Borehole Depth: 99.5' bgs Surface Elevation: 861.45 Descriptions By: Lance Rogers	Well/Boring ID: MW-12-06 Client: RACER Location: RACER Lansing Plant 2 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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785									
		9	77.0-80.6	3.0					
80									
780								NOTE: Well casing set at 80.6' bgs.	
								NOTE: All fractures observed in rock cores appeared to be natural unless noted otherwise.	
85		10	80.6-89.5	9.0					
775								(87.1-87.3') SHALE material; wet; soft.	
								(88.1-88.35') SHALE.	
90		11	89.5-99.5	10.0				(89.5-92.2') SANDSTONE; fracturing in this interval was mechanical.	
770									3.5" Open bore hole (80.6-99.5 bgs)

	Remarks: bgs = below ground surface Groundwater encountered at No odor or staining observed.
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Date Start/Finish: 9.11.12-9.13.12 Drilling Company: Boart Longyear Driller's Name: Scott Parkes / Jim Vanconant Drilling Method: Sonic Sampling Method: 10' sonic/10' rock core Rig Type: Fullsize Sonic	Northing: 451127.2963 Easting: 13064994.17 Casing Elevation: NA Borehole Depth: 99.5' bgs Surface Elevation: 861.45 Descriptions By: Lance Rogers	Well/Boring ID: MW-12-06 Client: RACER Location: RACER Lansing Plant 2 2800 West Saginaw Hwy. Lansing, MI 48909
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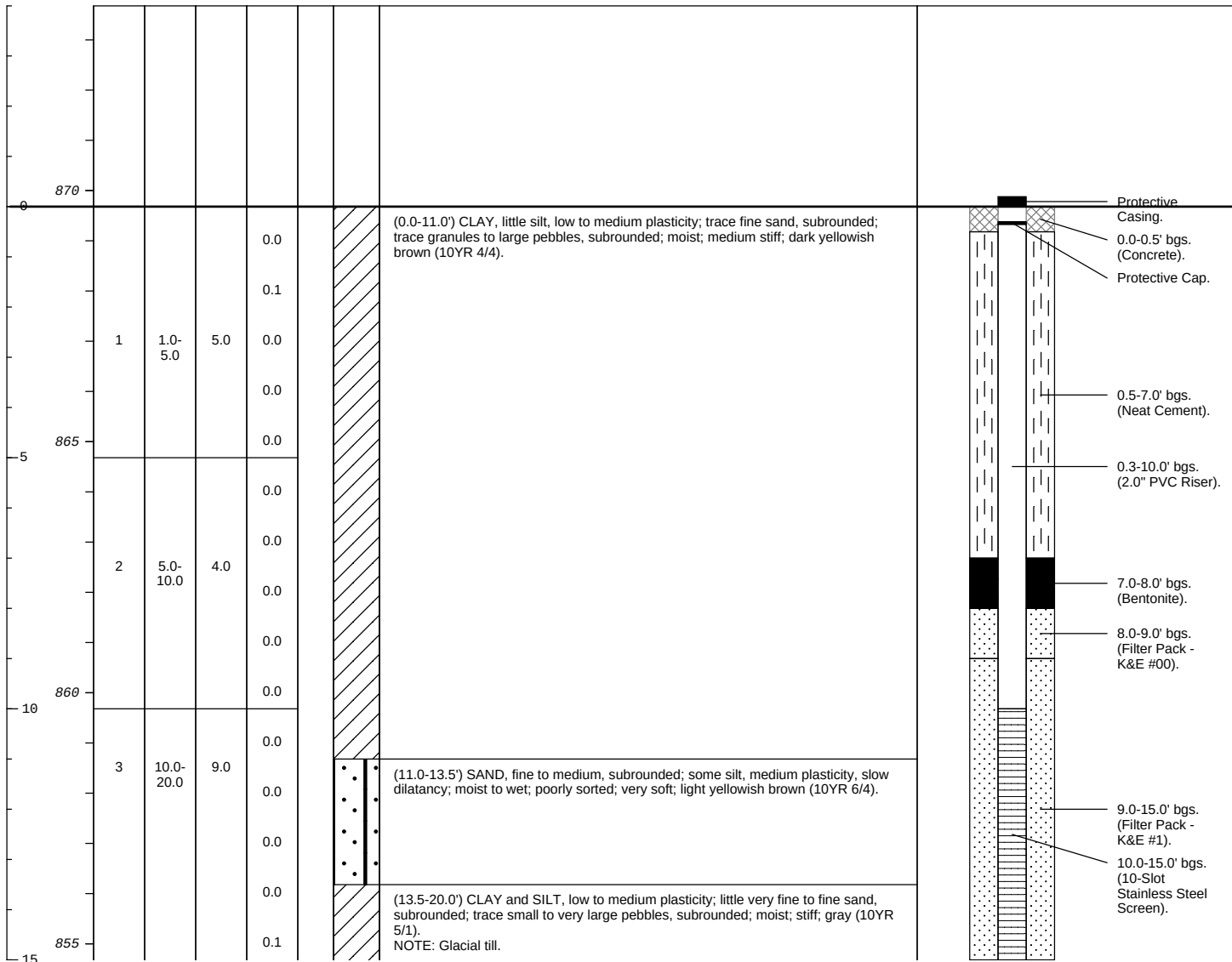
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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95								(92.2-96.0') SHALE with sandstone inclusions. NOTE: All fractures in shale appeared to be natural; sediment build up on fractures.	
765								(96.0- 98.0') SANDSTONE with very thin shale beds (1mm-10mm in thickness)	
								(98.0-99.5') SHALE with sandstone layering.	
100								End of boring at 99.5' bgs.	
760									
105									
755									

	Remarks: bgs = below ground surface Groundwater encountered at No odor or staining observed.
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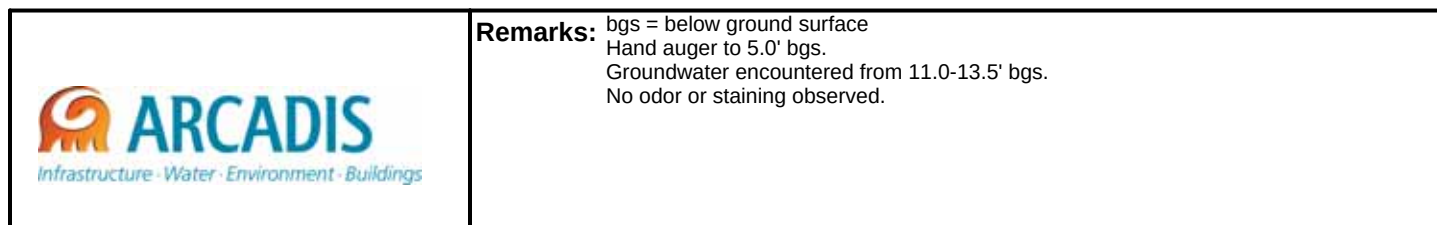
Date Start/Finish: 11.13.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 450504.5018 Easting: 13064242.15 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 869.679992 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-07 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 11.0-13.5' bgs. No odor or staining observed.
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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Date Start/Finish: 11.13.12-11.14.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 450492.226 Easting: 13064772.6 Casing Elevation: NA Borehole Depth: 45.0' bgs. Surface Elevation: 861.132995 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-08 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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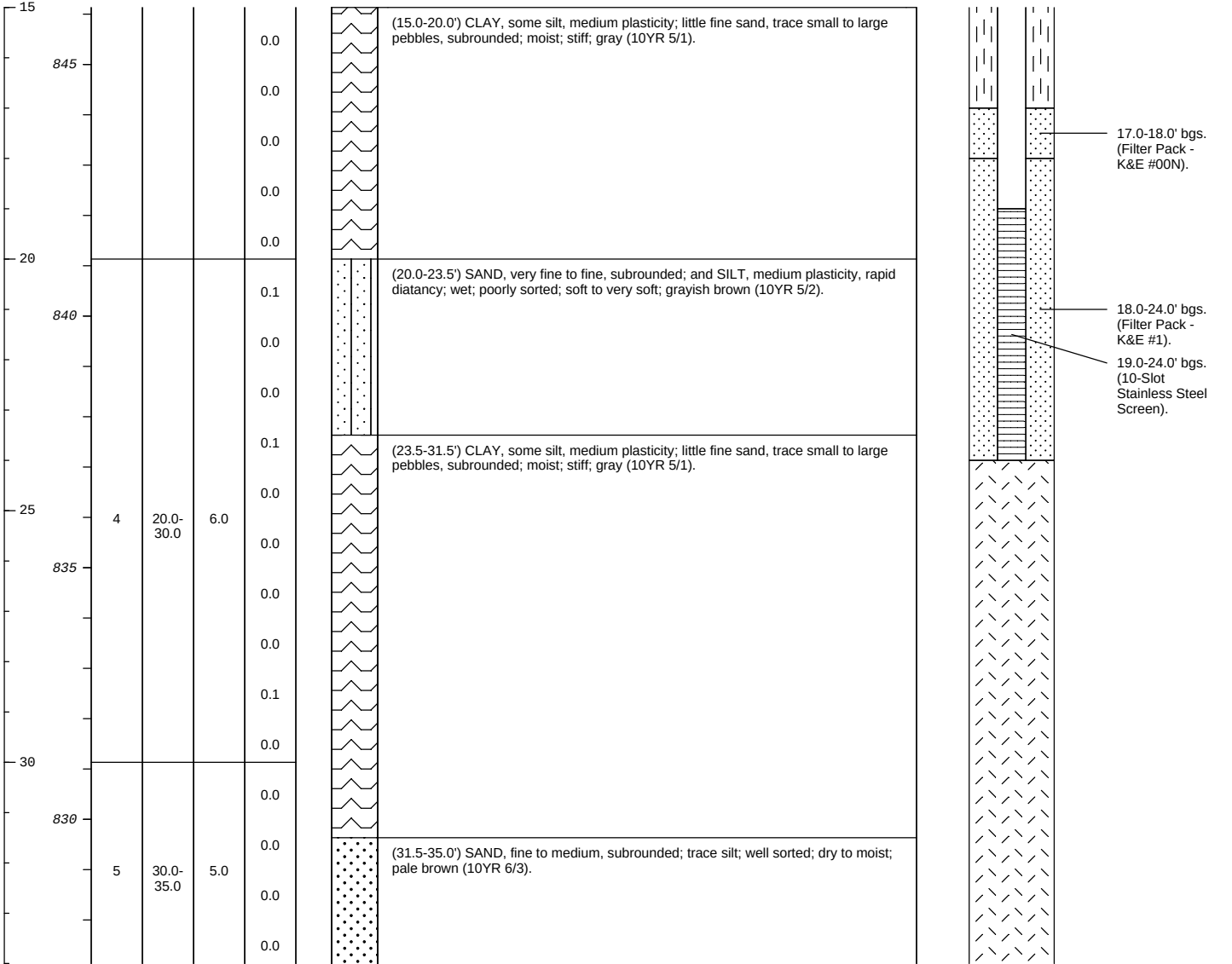
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0								(0.0-0.5') ASPHALT.	Protective Casing.
860		1	1.0-5.0	5.0	0.8			(0.5-6.0') SAND, very fine to fine, subrounded; trace small to medium pebbles, subrounded; little silt; well sorted; dry to moist; yellowish brown (10YR 5/6). NOTE: Fill sand.	0.0-0.5' bgs. (Concrete). Protective Cap.
					0.1				
					0.1				
					0.3				
5					0.0				
855		2	5.0-10.0	5.0	0.0			(6.0-9.0') CLAY, little silt, high plasticity; trace fine sand, subrounded; trace small pebbles to small cobbles, subrounded; moist; stiff; yellowish brown (10YR 5/4). NOTE: Glacial till.	
					0.0				
					0.0				
					0.0				
10					0.0			(9.0-15.0') CLAY, little silt, high plasticity; trace fine sand, trace small to large pebbles, subrounded; moist; medium stiff; gray (10YR 5/1).	0.5-17.0' bgs. (Neat Cement).
850		3	10.0-20.0	9.0	0.0				0.35-19.0' bgs. (2.0" PVC Riser).
					0.0				
					0.0				
					0.0				
					0.0				
15					0.0				

	Remarks: bgs = below ground surface Hand auger to 5' bgs. Groundwater encountered from 20.0'-23.0' bgs. No odor or staining observed.
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Date Start/Finish: 11.13.12-11.14.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 450492.226 Easting: 13064772.6 Casing Elevation: NA Borehole Depth: 45.0' bgs. Surface Elevation: 861.132995 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-08 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: bgs = below ground surface Hand auger to 5' bgs. Groundwater encountered from 20.0'-23.0' bgs. No odor or staining observed.
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Date Start/Finish: 11.13.12-11.14.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 450492.226 Easting: 13064772.6 Casing Elevation: NA Borehole Depth: 45.0' bgs. Surface Elevation: 861.132995 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-08 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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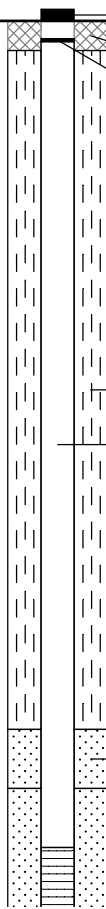
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35					0.0				
825					0.0			(35.0-43.5') CLAY and SILT, medium plasticity; little fine to medium sand, subrounded; trace small to very large pebbles, subrounded; moist; stiff; gray (10YR 5/1). NOTE: Glacial till.	
					0.0				
					0.0				
					0.0				
40		6	35.0-45.0	10.0	0.0				
820					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
45					0.0			(43.5-45.0') SAND, very fine to fine, subrounded; trace silt; well sorted; dry; very pale brown (10YR 7/3).	
					0.0				
815								End of boring at 45.0' bgs.	
50									
810									

	Remarks: bgs = below ground surface Hand auger to 5' bgs. Groundwater encountered from 20.0'-23.0' bgs. No odor or staining observed.
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Date Start/Finish: 11.14.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 451047.588 Easting: 13064065.12 Casing Elevation: NA Borehole Depth: 20.0' bgs. Surface Elevation: 860.361999 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-09 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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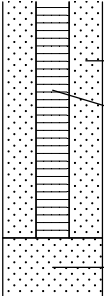
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	860	1	1.0-5.0	5.0	0.1		(0.0-1.0') SAND, fine to medium, subrounded; trace granules to large pebbles, subrounded; trace silt; poorly sorted; dry to moist; brown (10YR 4/3).	 Protective Casing. 0.0-0.5' bgs. (Concrete). Protective Cap. 0.5-12.0' bgs. (Neat Cement). 0.35-14.0' bgs. (2.0" PVC Riser). 12.0-13.0' bgs. (Filter Pack - K&E #00N).
					0.0		(1.0-9.0') CLAY, some silt, medium plasticity; trace to little very fine to fine sand, subrounded; trace granules to large pebbles, subrounded; moist; stiff; brown (10YR 5/3).	
					0.0			
					0.1			
					0.1			
5	855	2	5.0-10.0	4.6	0.1			
					0.0			
					0.0			
					0.0			
					0.1		(9.0-20.0') SAND, very fine to fine, subrounded; little silt; well sorted; grayish brown (10YR 5/2). NOTE: Dry to moist from 9.0-15.0' bgs.	
10	850	3	10.0-15.0	4.0	0.0			
					0.0			
					0.0			
					0.1			
					0.0			
15								

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered at 15.0' bgs. No odor or staining observed.
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Date Start/Finish: 11.14.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 451047.588 Easting: 13064065.12 Casing Elevation: NA Borehole Depth: 20.0' bgs. Surface Elevation: 860.361999 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-09 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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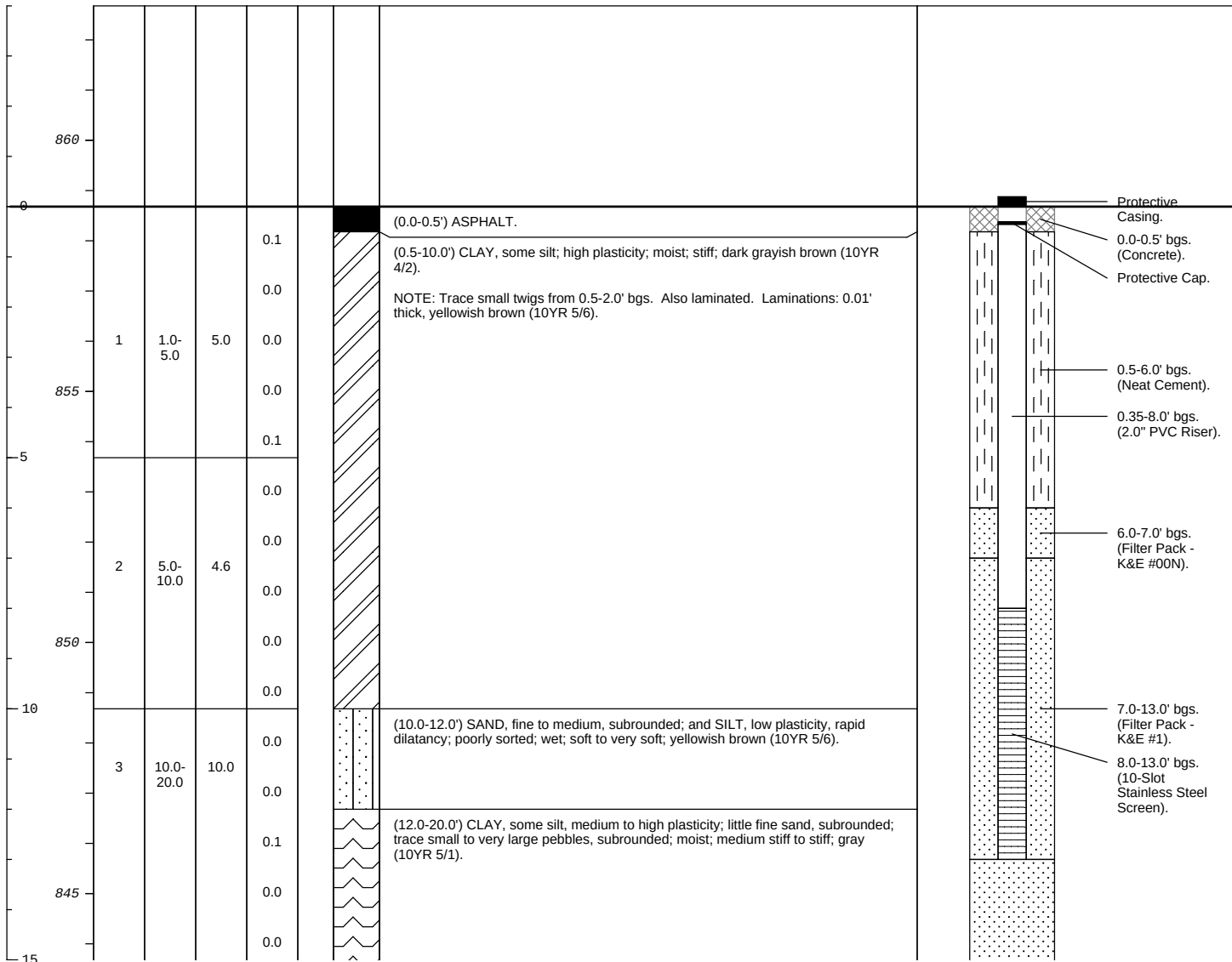
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	845	4	15.0-20.0	4.6	0.0 0.0 0.0 0.0 0.0			NOTE: Wet at 15.0' bgs.	 13.0-19.0' bgs. (Filter Pack - K&E #1). 14.0-19.0' bgs. (10-Slot Stainless Steel Screen). 19.0-20.0' bgs. (Backfill).
20	840							End of boring at 20.0' bgs.	
25	835								
30	830								

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered at 15.0' bgs. No odor or staining observed.
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Date Start/Finish: 11.14.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 451687.5865 Easting: 13066123.81 Casing Elevation: NA Borehole Depth: 20.0' bgs. Surface Elevation: 858.679992 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-10 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 10.0-12.0' bgs. No odor or staining observed.
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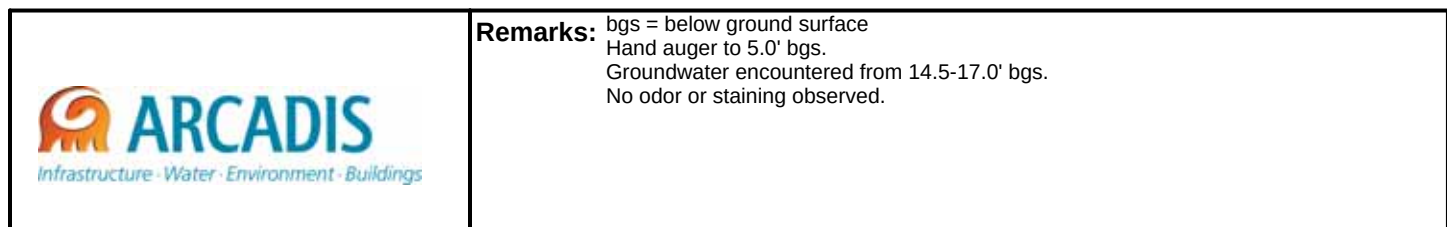
Date Start/Finish: 11.14.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 451687.5865 Easting: 13066123.81 Casing Elevation: NA Borehole Depth: 20.0' bgs. Surface Elevation: 858.679992 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-10 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15					0.0				
					0.0				
					0.0				
840					0.0				
					0.0				
20								End of boring at 20.0' bgs.	13.0-20.0' bgs. (Backfill).
835									
25									
830									
30									
825									

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 10.0-12.0' bgs. No odor or staining observed.
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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Date Start/Finish: 11.15.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 451558.7737 Easting: 13066264.59 Casing Elevation: NA Borehole Depth: 25.0' bgs. Surface Elevation: 857.721008 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-11 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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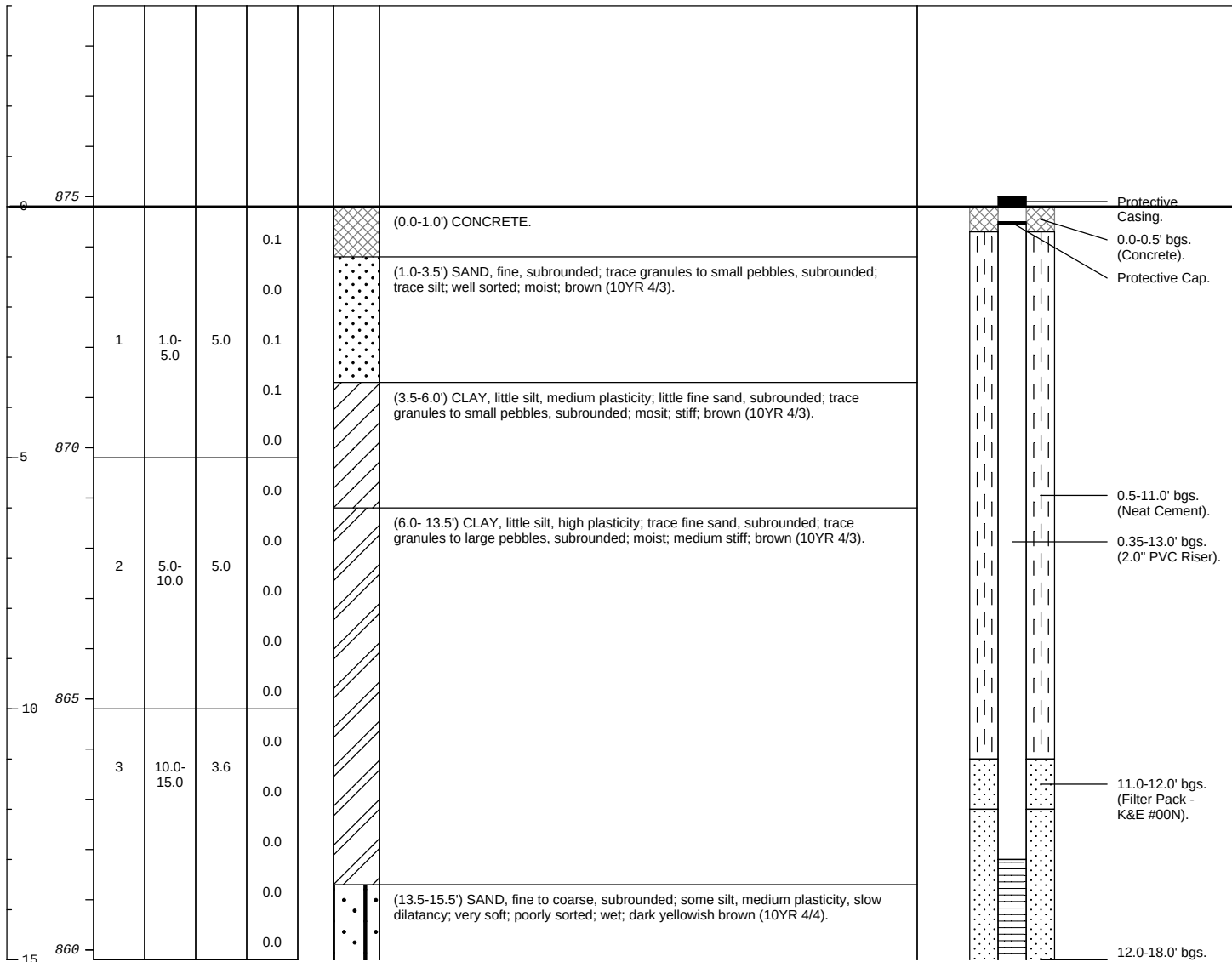
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15								poorly sorted; wet; gray (10YR 5/1).	
		4	15.0-20.0	5.0	0.0				(Filter Pack - K&E #1).
					0.0				13.0-18.0' bgs. (10-Slot Stainless Steel Screen).
840					0.0			(17.0-25.0') CLAY, little silt, high plasticity; trace fine sand, subrounded; trace small to very large pebbles, subrounded; moist; stiff; gray (10YR 5/1).	
					0.0				
					0.0				
20					0.0				
		5	20.0-25.0	5.0	0.0				18.0-25.0' bgs. (Backfill).
					0.0				
835					0.0				
					0.0				
					0.0				
25					0.0			End of boring at 25.0' bgs.	
830									
30									
825									

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 14.5-17.0' bgs. No odor or staining observed.
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Date Start/Finish: 11.15.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 451421.5198 Easting: 13066518.64 Casing Elevation: NA Borehole Depth: 20.0' bgs. Surface Elevation: 874.801025 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-12 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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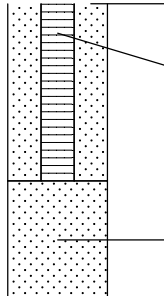
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	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 13.5-15.5' bgs. No odor or staining observed.
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Date Start/Finish: 11.15.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 451421.5198 Easting: 13066518.64 Casing Elevation: NA Borehole Depth: 20.0' bgs. Surface Elevation: 874.801025 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-12 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15									
		4	15.0-20.0	4.0	0.0			(15.5-20.0') CLAY, little silt, high plasticity; trace fine sand, subrounded; trace small to very large pebbles, subrounded; moist; stiff; gray (10YR 5/1). NOTE: Glacial till.	 (Filter Pack - K&E #1). 13.0-18.0' bgs. (10-Slot Stainless Steel Screen). 18.0-20.0' bgs. (Backfill).
20	855				0.0			End of boring at 20.0' bgs.	
25	850								
30	845								

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 13.5-15.5' bgs. No odor or staining observed.
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Date Start/Finish: 11.15.12 - 11.16.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 451197.3273 Easting: 13066766.25 Casing Elevation: NA Borehole Depth: 30.0' bgs. Surface Elevation: 874.963989 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-13 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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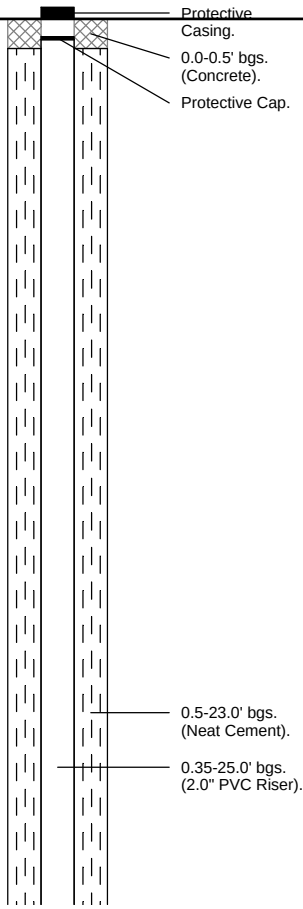
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	875								
		1	1.0-5.0	5.0	0.0			(0.0-12.0') CLAY, low plasticity; little to some fine sand, subrounded; trace granules to large pebbles, subrounded; dry; stiff; brown (10YR 4/3).	Protective Casing. 0.0-0.5' bgs. (Concrete). Protective Cap.
5	870				0.0				
		2	5.0-10.0	5.0	0.0				0.5-11.0' bgs. (Neat Cement). 0.35-13.0' bgs. (2.0" PVC Riser).
10	865				0.0				
		3	10.0-20.0	8.0	0.0			(12.0-20.0') CLAY, little silt, high plasticity; trace fine sand, subrounded; trace granules to large pebbles, subrounded; moist, medium stiff; brown (10YR 5/3).	11.0-12.0' bgs. (Filter Pack - K&E #00N).
15	860				0.0				12.0-18.0' bgs.

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 20.0-22.0' bgs. No odor or staining observed.
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Date Start/Finish: 11.16.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 449779.2924 Easting: 13066702.29 Casing Elevation: NA Borehole Depth: 30.0' bgs. Surface Elevation: 868.304016 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-14 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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870									
0								(0.0-3.0') CLAY, some silt, medium plasticity; some fine sand, subrounded; trace granules to very large pebbles, subangular; stiff; moist; dark yellowish brown (10YR 4/4).	 Protective Casing. 0.0-0.5' bgs. (Concrete). Protective Cap.
865		1	1.0-5.0	5.0	0.0			(3.0-12.0') CLAY, some silt, medium plasticity; trace fine sand, subrounded; trace granules to large pebbles, subrounded; stiff; moist; dark brown (10YR 3/3).	
5					0.0				
860		2	5.0-10.0	4.0	0.0				
10					0.0				
855		3	10.0-20.0	8.0	0.0			(12.0-25.0') CLAY, some silt, high plasticity; trace fine sand, subrounded; trace small to large pebbles, subrounded; medium stiff; moist; grayish brown (10YR 5/2). NOTE: Glacial till.	0.5-23.0' bgs. (Neat Cement). 0.35-25.0' bgs. (2.0" PVC Riser).
15					0.0				

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 25.0-26.0' and 27.0-30.0' bgs. No odor or staining observed.
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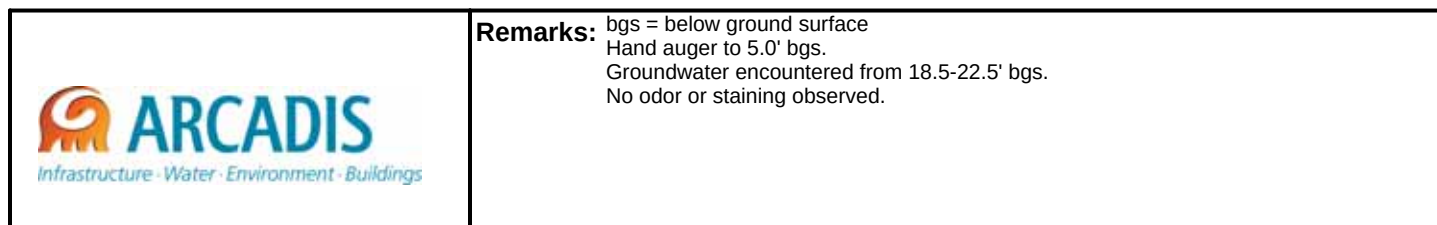
Date Start/Finish: 11.16.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 449779.2924 Easting: 13066702.29 Casing Elevation: NA Borehole Depth: 30.0' bgs. Surface Elevation: 868.304016 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-14 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15					0.0				
					0.0				
					0.0				
850					0.0				
					0.0				
20		4	20.0-30.0	9.0	0.0				
					0.0				
					0.0				
845					0.0				
					0.0				
25					0.0			(25.0-26.0') SAND, medium to coarse, subrounded; little silt; poorly sorted; wet; grayish brown (10YR 5/2).	
					0.0			(26.0-27.0') CLAY and SILT, low plasticity; trace fine sand, subrounded; trace small pebbles, subrounded; moist; stiff; grayish brown (10YR 5/2).	
					0.0			(27.0-30.0') SAND, very fine to fine, subrounded; trace silt; well sorted; wet; grayish brown (10YR 5/2).	
840					0.0				
					0.0				
30					0.0			End of boring at 30.0' bgs.	
835									

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 25.0-26.0' and 27.0-30.0' bgs. No odor or staining observed.
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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Date Start/Finish: 11.19.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 449681.2839 Easting: 13065743.1 Casing Elevation: NA Borehole Depth: 35.0' bgs. Surface Elevation: 864.42102 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-16 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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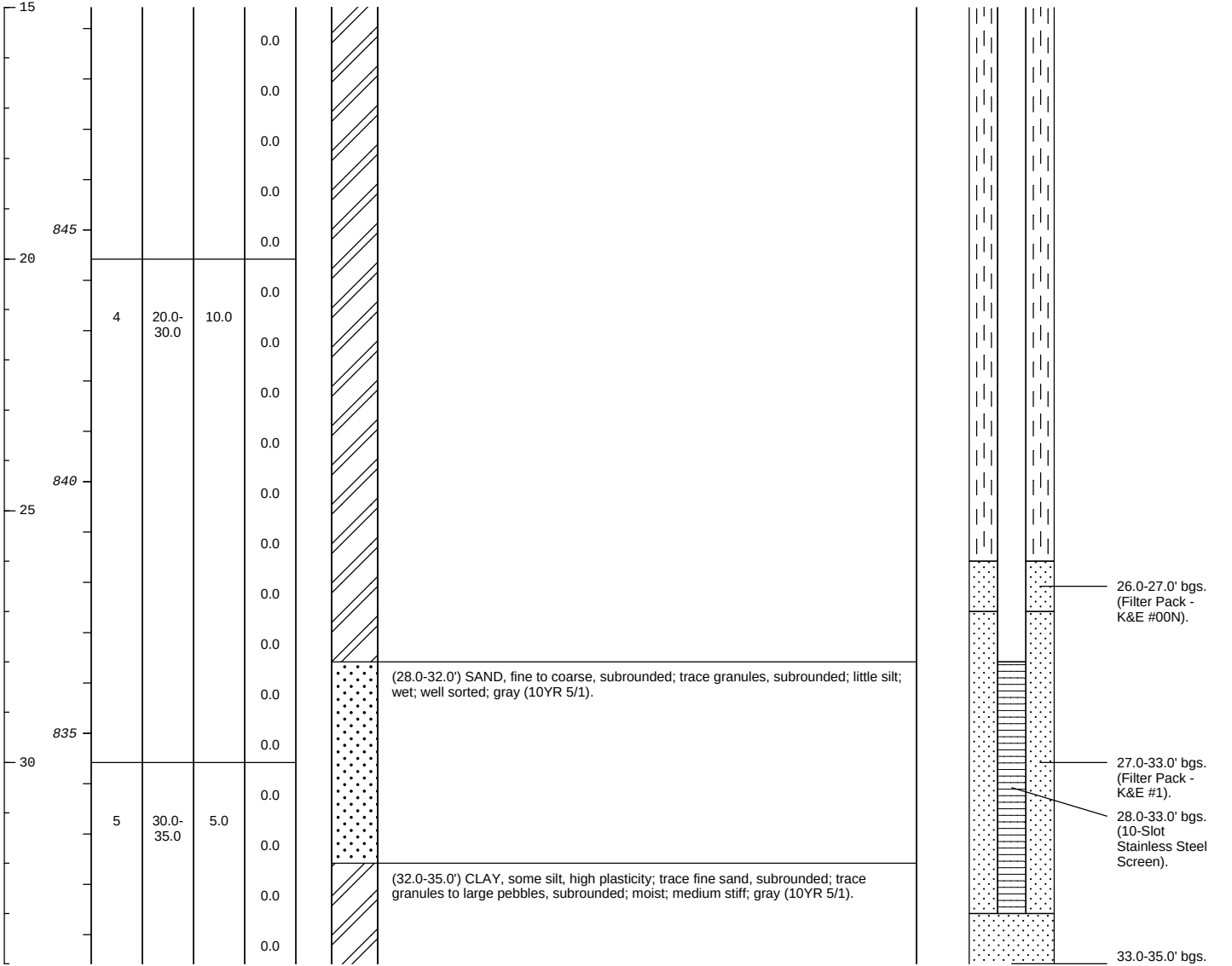
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865	0								
		1	1.0-5.0	5.0	0.0			(0.0-5.0') CLAY, little silt, low plasticity; little to some fine sand, subrounded; trace small to very large pebbles, subangular; dry to moist; stiff, brown (10YR 4/3).	Protective Casing. 0.0-0.5' bgs. (Concrete). Protective Cap.
860	5				0.0				
		2	5.0-10.0	5.0	0.0			(5.0-11.0') CLAY, some silt, high plasticity; trace fine sand, subrounded; trace granules, subrounded; moist; very soft to medium stiff; gray (10YR 5/1).	
					0.0				
855	10				0.0				
		3	10.0-20.0	7.0	0.0			(11.0-28.0') CLAY, some silt, high plasticity; trace fine sand, subrounded; trace granules to large pebbles, subrounded; moist; medium stiff; gray (10YR 5/1). NOTE: Small seam of fine to coarse sand; moist; from 11.5-12.0' bgs.	
					0.0				
					0.0				
850	15				0.0				0.5-26.0' bgs. (Neat Cement). 0.35-28.0' bgs. (2.0" PVC Riser).

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 28.0-32.0' bgs. No odor or staining observed.
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Date Start/Finish: 11.19.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 449681.2839 Easting: 13065743.1 Casing Elevation: NA Borehole Depth: 35.0' bgs. Surface Elevation: 864.42102 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-16 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 28.0-32.0' bgs. No odor or staining observed.
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Date Start/Finish: 11.19.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 449681.2839 Easting: 13065743.1 Casing Elevation: NA Borehole Depth: 35.0' bgs. Surface Elevation: 864.42102 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-16 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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830				0.0					(Backfill).
35								End of boring at 35.0' bgs.	
825									
40									
820									
45									
815									
50									

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 28.0-32.0' bgs. No odor or staining observed.
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Date Start/Finish: 11.20.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 450194.0493 Easting: 13064309.06 Casing Elevation: NA Borehole Depth: 14.5' bgs. Surface Elevation: 875.823974 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-17 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	875	1	1.0-5.0	5.0	0.0			(0.0-0.5') ASPHALT.	Protective Casing.
					0.0			(0.5-13.5') SAND, fine to medium, subrounded; trace silt; moist; well sorted; brown (10YR 4/3).	0.0-0.5' bgs. (Concrete).
					0.0				Protective Cap.
					0.0				
					0.0				
5					0.0				0.5-7.5' bgs. (Neat Cement).
	870	2	5.0-10.0	5.0	0.0				0.35-9.5' bgs. (2.0" PVC Riser).
					0.0				
					0.0				
					0.0				7.5-8.5' bgs. (Filter Pack - K&E #00N).
10					0.0				
	865	3	10.0-14.0	3.6	0.2				
					2.1				8.5-14.5' bgs. (Filter Pack - K&E #1).
					8.2				9.5-14.5' bgs. (10-Slot Stainless Steel Screen).
					16.1				
								NOTE: Moist to wet at 12.5' bgs.	
								NOTE: Black staining from 13.0-13.5' bgs.	
								(13.5-14.5') PEBBLES, small, some granules, subrounded; poorly sorted; moist to wet; black.	
								NOTE: REFUSAL at 14.5' bgs. - concrete.	
15								End of Boring at 14.5' bgs.	

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered at 12.5' and from 13.5-14.0' bgs. No odor observed. Black staining observed from 13.0-13.5' bgs. Refusal at 14.0' bgs.
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Date Start/Finish: 11.20.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 450813.0102 Easting: 13064049.69 Casing Elevation: NA Borehole Depth: 35.0' bgs. Surface Elevation: 862.835021 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-18 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
					0.0			(0.0-1.0') CLAY, some silt, low plasticity, some fine sand, subrounded; trace granules, subrounded; moist; medium stiff; brown (10YR 4/3).	
					0.0			(1.0-3.5') SAND, fine to medium, subrounded; trace granules to medium pebbles, subrounded; little silt; poorly sorted; moist; brown (10YR 5/3).	
860	1	1.0-5.0	5.0	0.0	0.0				
					0.0			(3.5-5.0') CLAY, some silt, low plasticity; little fine sand, subrounded; dry to moist; medium stiff; brown (10YR 4/3).	
5					0.0				
					0.0			(5.0-9.8') CLAY, little silt, medium plasticity; trace fine sand, subrounded; trace granules to small pebbles, subrounded; dry to moist; stiff; brown (10YR 5/3).	
855	2	5.0-10.0	4.0	0.0	0.0				
					0.0				
10					0.0			(9.8-11.0') SAND, very fine to fine, subrounded; trace granules, subrounded; trace silt; moist; well sorted; yellowish brown (10YR 5/6).	
					0.0			(11.0-29.0') CLAY, little silt, medium to high plasticity; trace fine sand, subrounded; trace small to very large pebbles, subrounded; moist; stiff; gray (10YR 5/1).	
850					0.0				
					0.0				
15					0.0				

Protective Casing.

0.0-0.5' bgs. (Concrete).

Protective Cap.

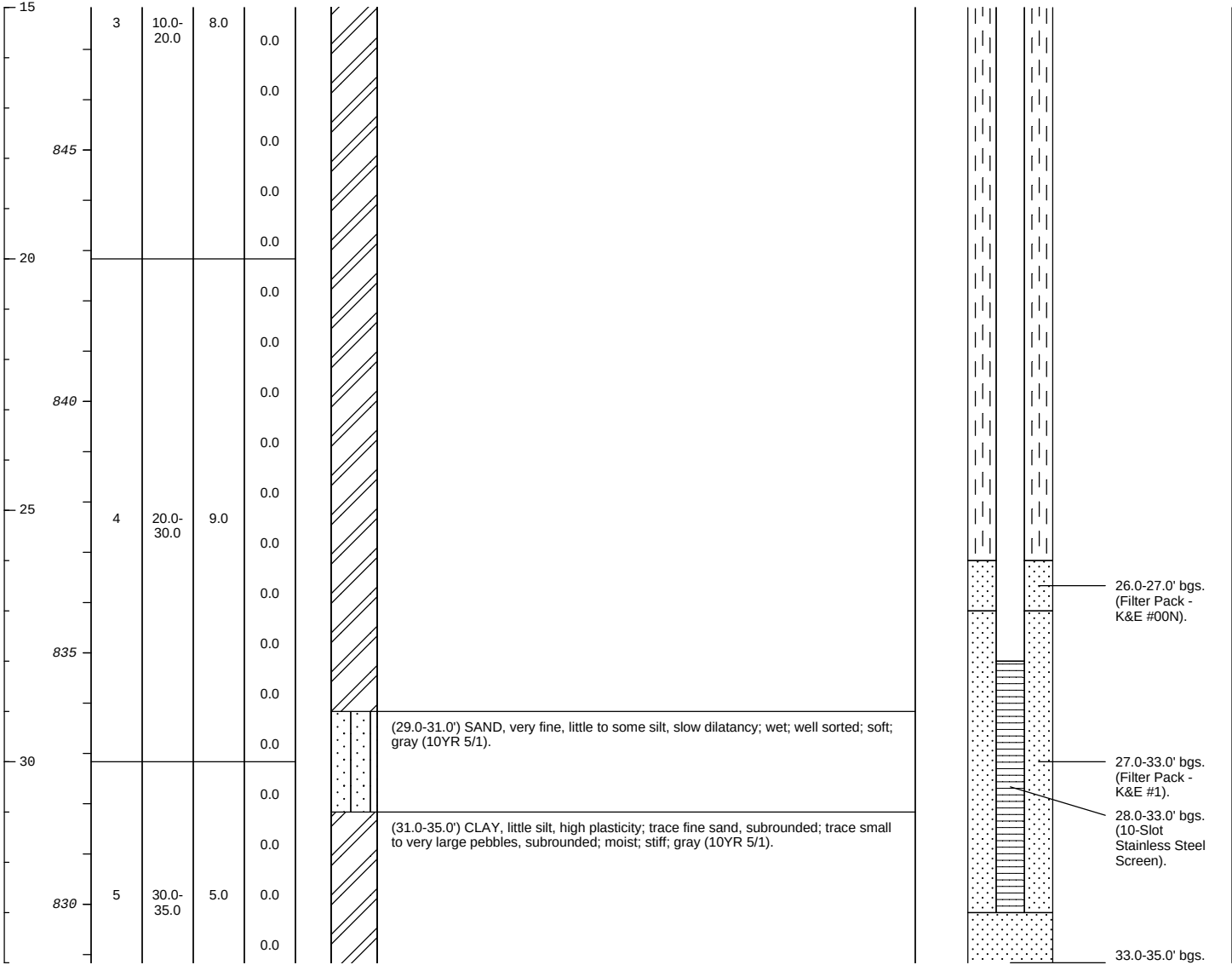
0.5-26.0' bgs. (Neat Cement).

0.35-28.0' bgs. (2.0" PVC Riser).

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 29.0-31.0' bgs. No odor or staining observed.
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Date Start/Finish: 11.20.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 450813.0102 Easting: 13064049.69 Casing Elevation: NA Borehole Depth: 35.0' bgs. Surface Elevation: 862.835021 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-18 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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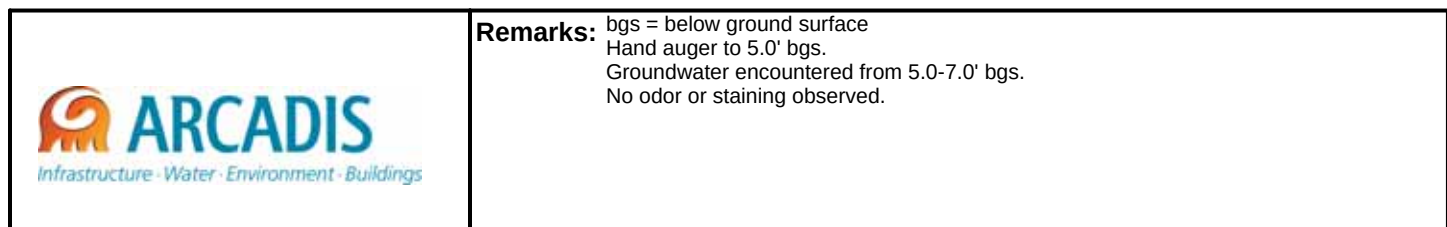
	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 29.0-31.0' bgs. No odor or staining observed.
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Date Start/Finish: 11.20.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 450813.0102 Easting: 13064049.69 Casing Elevation: NA Borehole Depth: 35.0' bgs. Surface Elevation: 862.835021 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-18 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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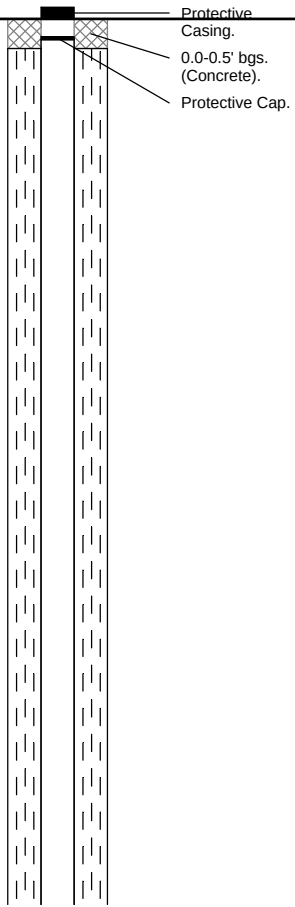
35				0.0				End of boring at 35.0' bgs.	(Backfill).
825									
40									
820									
45									
815									
50									
810									

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 29.0-31.0' bgs. No odor or staining observed.
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[illegible]

Date Start/Finish: 11.21.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 453128.0373 Easting: 13063515.96 Casing Elevation: NA Borehole Depth: 80.0' bgs. Surface Elevation: 861.42102 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-20 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
860		1	1.0-5.0	5.0	0.0			(0.0-1.0') CONCRETE.	 Protective Casing. 0.0-0.5' bgs. (Concrete). Protective Cap.
					0.0			(1.0-4.0') SAND, fine, subrounded; trace small to medium pebbles, subrounded; little silt; poorly sorted; dry to moist; dark yellowish brown (10YR 4/6).	
					0.0				
					0.0				
5					0.0			(4.0-6.0') CLAY, some silt, medium plasticity; trace small to large pebbles, subrounded; trace fine sand, subrounded; dry to moist; stiff; dark yellowish brown (10YR 4/6).	
					0.0				
855		2	5.0-10.0	3.0	0.0			(6.0-10.0') SAND, fine, subrounded; trace small to medium pebbles, subrounded; little silt; poorly sorted; dry to moist; dark yellowish brown (10YR 4/6).	
					0.0				
					0.0				
10					0.0			(10.0-11.0') CLAY, some silt, medium plasticity; trace to little fine sand, subrounded; trace granules to medium pebbles, subrounded; moist; medium stiff; dark yellowish brown (10YR 4/4).	
850		3	10.0-20.0	7.0	0.0			(11.0-15.0') SAND, fine to medium, subrounded; trace granules to medium pebbles, subrounded; trace silt; poorly sorted; dry to moist; yellowish brown (10YR 5/4).	
					0.0				
					0.0				
					0.0				
					0.0				
15					0.0				

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 25.0-26.0', 58.0-68.0' and 70.0-80.0' bgs. No odor or staining observed.
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Date Start/Finish: 11.21.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 453128.0373 Easting: 13063515.96 Casing Elevation: NA Borehole Depth: 80.0' bgs. Surface Elevation: 861.42102 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-20 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15					0.0			(15.0-20.0') CLAY and SILT, nonplastic to low plasticity; trace fine sand, subrounded; trace small to large pebbles, subrounded; dry; very stiff; grayish brown (10YR 5/2).	
845					0.0				
					0.0				
					0.0				
20					0.0				
840	4	20.0-30.0	10.0		0.0			(20.0-25.0') CLAY and SILT, medium to high plasticity; trace fine sand, subrounded; trace small to large pebbles, subrounded; moist; medium stiff; gray (10YR 5/1).	
					0.0				
					0.0				
25					0.0				
835					0.0			(25.0-26.0') SILT, little clay, nonplastic to low plasticity, rapid dilatancy; wet; soft; gray (10YR 5/1).	
					0.0			(26.0-27.5') SAND; and PEBBLES, small to very large, subrounded; trace silt; poorly sorted; moist; dark yellowish brown (10YR 4/6).	
					0.0			(27.5-29.0') SAND, very fine, subrounded; trace silt; well sorted; dry; yellowish brown (10YR 5/6).	
30					0.0			(29.0-42.0') SAND, very fine, subrounded; trace large pebbles, subrounded; trace silt; well sorted; dry; light gray (10YR 7/2).	
830	5	30.0-38.0	8.0		0.0				
					0.0				
					0.0				
					0.0				

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 25.0-26.0', 58.0-68.0' and 70.0-80.0' bgs. No odor or staining observed.
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Date Start/Finish: 11.21.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 453128.0373 Easting: 13063515.96 Casing Elevation: NA Borehole Depth: 80.0' bgs. Surface Elevation: 861.42102 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-20 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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35					0.0				
825					0.0				
					0.0				
					0.0				
		6	38.0-45.0	7.0	0.0				
40					0.0				
					0.0				
820					0.0				
					0.0				
					0.0				
45					0.0				
		7	45.0-55.0	10.0	0.0				
815					0.0				
					0.0				
					0.0				
					0.0				
50					0.0				
					0.0				
810					0.0				
					0.0				

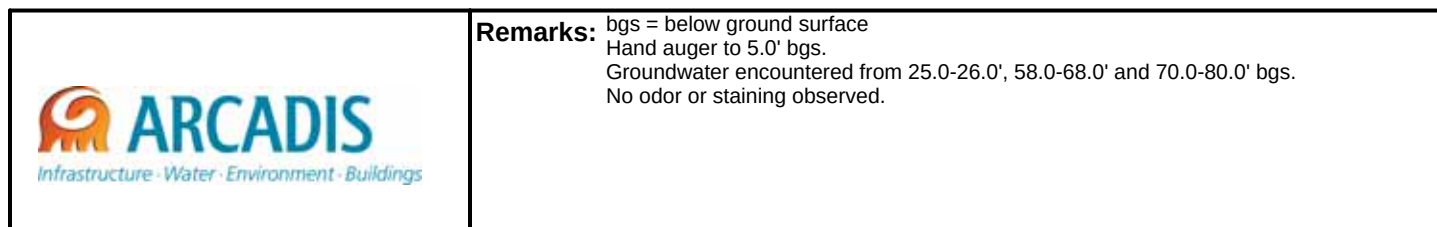
	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 25.0-26.0', 58.0-68.0' and 70.0-80.0' bgs. No odor or staining observed.
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Date Start/Finish: 11.21.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 453128.0373 Easting: 13063515.96 Casing Elevation: NA Borehole Depth: 80.0' bgs. Surface Elevation: 861.42102 Descriptions By: Austin Westhuis	Well/Boring ID: MW-12-20 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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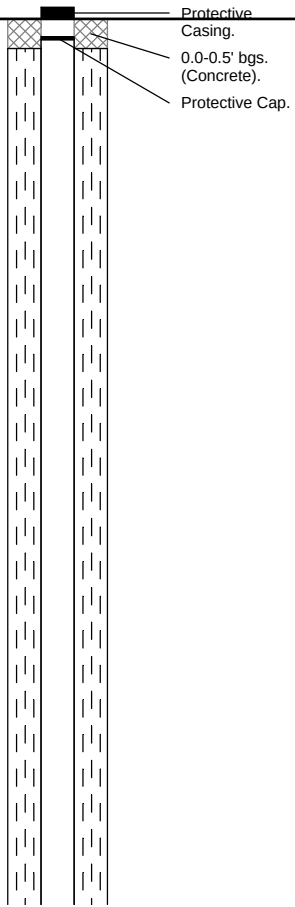
55					0.0				
					0.0				
805		8	55.0-60.0	2.0	0.0				
					0.0				
					0.0				
					0.0				
					0.0				
60					0.0			(58.0-68.0') SAND, very fine; and SILT, rapid dilatancy; well sorted; wet; soft; gray (10YR 5/1).	
					0.0				
800		9	60.0-70.0	10.0	0.0				
					0.0				
					0.0				
					0.0				
65					0.0				
					0.0				
795					0.0				
					0.0				
					0.0				
					0.0			(68.0-70.0') SAND, very fine; some to little silt; well sorted; moist to dry; gray (10YR 5/1).	
					0.0				
70					0.0				
					0.0			(70.0-73.0') SILT, trace clay, nonplastic to low plasticity; trace to little very fine sand, subrounded; wet; soft; gray (10YR 5/1).	
790		10	70.0-80.0	10.0	0.0				
					0.0				

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Groundwater encountered from 25.0-26.0', 58.0-68.0' and 70.0-80.0' bgs. No odor or staining observed.
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[illegible]

Date Start/Finish: 11.26.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 452849.4616 Easting: 13063775.1 Casing Elevation: NA Borehole Depth: 80.0' bgs. Surface Elevation: 861.338989 Descriptions By: Colleen Barton	Well/Boring ID: MW-12-21 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
860		1	1.0-5.0	5.0	NA			(0.0-2.5') CONCRETE.	 Protective Casing. 0.0-0.5' bgs. (Concrete). Protective Cap.
					NA			(2.5-3.0') SAND, fine to medium, little granules, subrounded; little silt; poorly sorted; moist; brown (10YR 4/3).	
					0.2			(3.0-6.5') CLAY, little silt, high plasticity; little fine sand, trace granules. subrounded; moist; medium stiff; brown (10YR 4/3).	
					0.0				
5					0.0				
855		2	5.0-15.0	5.3	0.5			NOTE: Wet, fine sand seam at 6.0' bgs.	
					0.1			(6.5-8.0') SAND, medium to very coarse, subangular; some granules to small pebbles, subangular; poorly sorted; dry; black (10YR 2/1) and brown (10YR 4/3).	
					0.0			(8.0-16.3') CLAY, high plasticity; little coarse sand to granules, angular; dry; very stiff; brown (10YR 5/3).	
10					2.6				
850					0.0				
					0.5				
					1.7				
					0.0				
					0.5				
15									

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Well screen set at 70.0-75.0' bgs. Groundwater encountered at 6.0', at 16.3', intermittently from 27.0-28.0', from 34.5-37.5' and from 60.0-80.0' bgs. No odor or staining observed.
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Date Start/Finish: 11.26.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 452849.4616 Easting: 13063775.1 Casing Elevation: NA Borehole Depth: 80.0' bgs. Surface Elevation: 861.338989 Descriptions By: Colleen Barton	Well/Boring ID: MW-12-21 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15								NOTE: Little silt from 15.0-16.3' bgs. NOTE: Soft; moist to wet at 16.3' bgs.	
845		3	15.0-25.0	10.0	0.0			(16.3-25.0') CLAY, high plasticity; little granules to small pebbles, subrounded to subangular; trace fine sand; moist to dry; medium stiff; brown (10YR 4/3).	
					0.6				
					12.1				
					15.0			NOTE: Increase fine sand to some from 18.75-19.25' bgs.	
20					12.1				
					1.4				
840					1.7				
					2.1			NOTE: Fine sand seam at 22.5' bgs. NOTE: Color change to dark grayish brown (10YR 5/2) at 22.6' bgs.	
					0.7				
25					0.4				
835		4	25.0-35.0	10.0	0.9			(25.0-29.0') CLAY, little silt, high plasticity; some very fine sand, trace granules to small pebbles, subrounded to subangular; moist; very soft; dark grayish brown (10YR5/2).	
					0.1			NOTE: Increase silt downward; intermittently wet; low to no plasticity from 27.0-28.0' bgs.	
					0.1				
30					0.7			(29.0-34.5') CLAY, little silt, high plasticity; little small to medium pebbles, subrounded; moist to dry; medium stiff; drak grayish brown (10YR 4/2).	
					0.1				
830					0.1				
					0.4				
					0.0				
					0.0				0.5-67.0' bgs.

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Well screen set at 70.0-75.0' bgs. Groundwater encountered at 6.0', at 16.3', intermittently from 27.0-28.0', from 34.5-37.5' and from 60.0-80.0' bgs. No odor or staining observed.
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Date Start/Finish: 11.26.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 452849.4616 Easting: 13063775.1 Casing Elevation: NA Borehole Depth: 80.0' bgs. Surface Elevation: 861.338989 Descriptions By: Colleen Barton	Well/Boring ID: MW-12-21 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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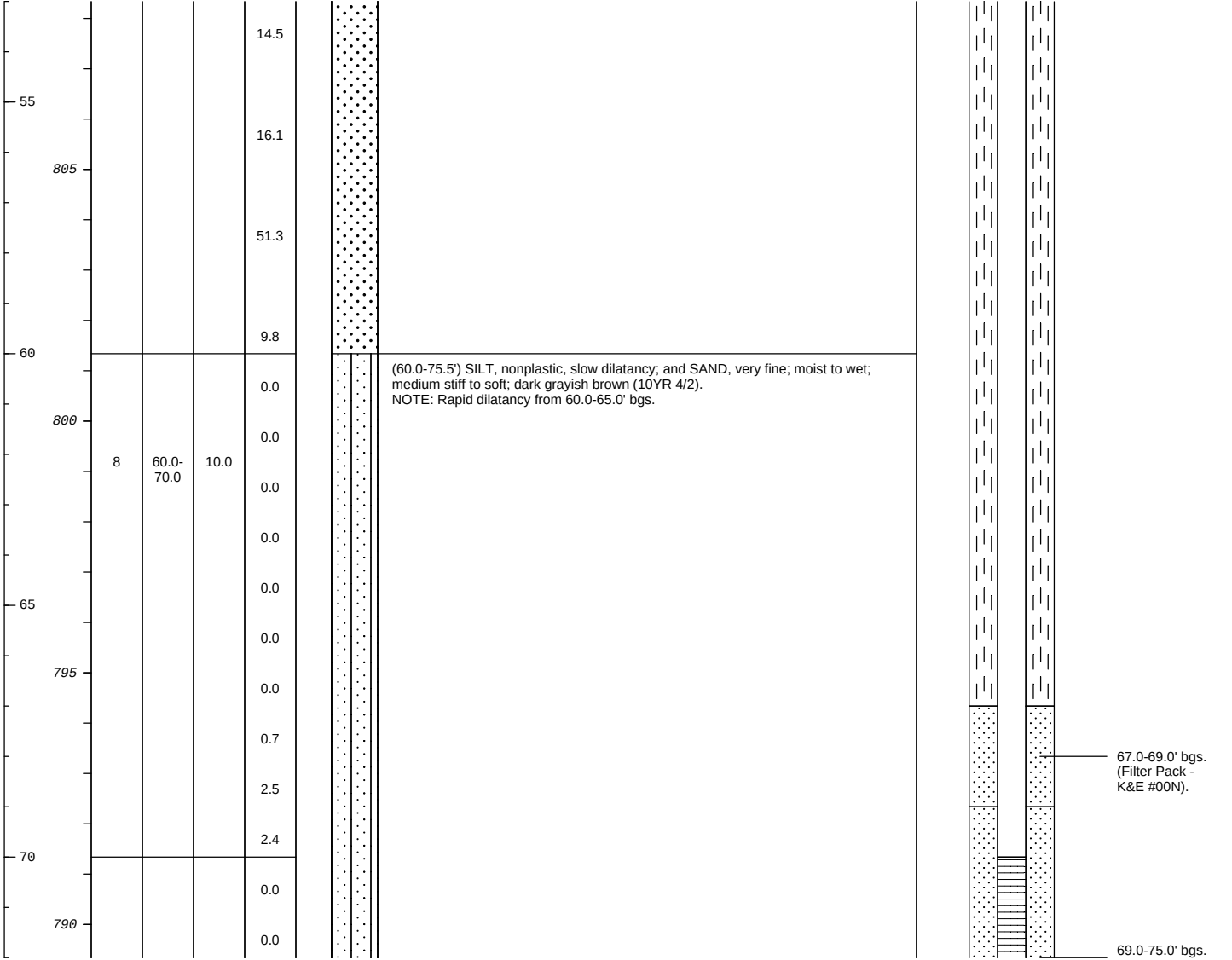
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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35					1.0			(34.5-35.0') SAND, fine to medium, little small to medium pebbles, subrounded; trace coarse sand, subangular; poorly sorted; wet; brown (10YR 4/3).	
825		5	35.0-40.0	5.0	11.1			(35.0-37.5') SAND, medium to coarse, subrounded to subangular; little to some granules to small pebbles, subrounded to subangular; poorly sorted; wet to moist; brown (10YR 4/3). NOTE: Trace clay; moist at 36.0' bgs. NOTE: Grain size increase to fine to medium; trace pebbles to granules at 36.5' bgs.	
					85.4			NOTE: Trace silt at 37.4' bgs.	
					155.2			(37.5-50.0') SAND, very fine to fine, trace granules to small pebbles, subangular to subrounded; some silt; well sorted; dry; light gray (10YR 7/2).	
					3.4				
					1.6				
40					60.4			NOTE: Increase to fine to medium; color change to brown (10YR 4/3) from 40.0-41.5' bgs.	
820		6	40.0-50.0	6.2	29.3				
					16.5				
					21.2			NOTE: Some silt; dry; color change to light gray (10YR 7/2) from 44.0-46.0' bgs.	
45					32.4				
815					42.7				
					24.1				
50								(50.0-60.0') SAND, very fine to fine, trace granules, subrounded; little silt; well sorted; moist; grayish brown (10YR 5/2).	
810		7	50.0-60.0	5.1	1.7				

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Well screen set at 70.0-75.0' bgs. Groundwater encountered at 6.0', at 16.3', intermittently from 27.0-28.0', from 34.5-37.5' and from 60.0-80.0' bgs. No odor or staining observed.
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Date Start/Finish: 11.26.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 452849.4616 Easting: 13063775.1 Casing Elevation: NA Borehole Depth: 80.0' bgs. Surface Elevation: 861.338989 Descriptions By: Colleen Barton	Well/Boring ID: MW-12-21 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Well screen set at 70.0-75.0' bgs. Groundwater encountered at 6.0', at 16.3', intermittently from 27.0-28.0', from 34.5-37.5' and from 60.0-80.0' bgs. No odor or staining observed.
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Date Start/Finish: 11.26.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger/Sonic Sampling Method: Hand Auger/5.0' Core Barrel Rig Type: Sonic	Northing: 452849.4616 Easting: 13063775.1 Casing Elevation: NA Borehole Depth: 80.0' bgs. Surface Elevation: 861.338989 Descriptions By: Colleen Barton	Well/Boring ID: MW-12-21 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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		9	70.0-80.0	10.0	0.0			NOTE: Rapid dilatancy; wet from 73.25-74.5' bgs.	
75					0.0				
					0.0				
					0.0				
785					0.0			(75.5-77.25') CLAY, some silt, low plasticity; moist to dry; stiff; dark grayish brown (10YR 4/2).	
					0.0				
					0.0			(77.25-80.0') SILT, nonplastic, slow dilatancy; and SAND, very fine; moist to wet; medium stiff to soft; dark grayish brown (10YR 4/2).	
					0.0				
80					0.0			End of boring at 80.0' bgs.	
780									
85									
775									
90									

	Remarks: bgs = below ground surface Hand auger to 5.0' bgs. Well screen set at 70.0-75.0' bgs. Groundwater encountered at 6.0', at 16.3', intermittently from 27.0-28.0', from 34.5-37.5' and from 60.0-80.0' bgs. No odor or staining observed.
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Boring Log .

Project No.: 01-4172-0

Boring No.: P2-GP-3

Project Name: RACER Lansing Plants

Date Drilled: 10/11/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0 - 0.3) ASPHALT				
		SP- (0.3 - 6.0) SAND fine to medium; trace small pebbles, rounded; well sorted; moist; brown; (10YR 4/3) Note: Saturated at 5.2' Note: black (10YR 2/1 at 4.0') 4 attempts/ refusal @6.0' on all attempts		-	0.0	
				-	0.0	
2				-	0.0	
				-	0.0	
4			GP-3 4.0' - 5.0'	-	0.0	
				-	0.0	
6						

Completion Notes: End Of Boring at 6' bgs hole filled with bentonite grout

1. The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
2. Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: P2-GP-4

Project Name: RACER Lansing Plants

Date Drilled: 10/11/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0' - 1.1') CONCRETE		-	0.0	
2		CL- (1.1' - 4.0') CLAY low plasticity; little fine sand, trace small pebbles, angular; dry; stiff; brown (10YR 4/3)		-	0.0	
				-	0.0	
4		SP- (4.0' - 5.0') SAND fine; well sorted; moist; black (10YR 2/1)	GP-4 4.0' - 5.0'	-	0.0	
6		CH- (5.0' - 20.0') CLAY high plasticity; trace fine sand, trace small pebbles, angular; dry; stiff; brown (10YR 4/3) Note: clay has sheen, green discoloration 8'-9'		-	0.0	
8				-	0.0	
		Note: color change to gray (10YR 5/1 at 10' bgs)	GP-4 8.0' - 9.0'	-	0.0	
10				-	0.0	
				-	0.0	
12			GP-4 11.0' - 12.0'	-	0.0	
14				-	0.0	
				-	0.0	
16				-	0.0	
				-	0.0	
18				-	0.0	
				-	0.0	
20				-	0.0	
22						

Completion Notes: End Of Boring at 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4172-0

Boring No.: P2-GP-5

Project Name: RACER Lansing Plants

Date Drilled: 10/11/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE		No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts PID (ppm)	
0		Ground Surface			
0		(0.0 - 0.3) CRUSHED STONE/DEBRIS		-	0.0
2		CL- (0.3 - 4.0) CLAY low plasticity; little fine sand, trace small pebbles, subangular; dry; stiff; brown (10YR 4/3)		-	0.0
4				-	0.0
4		SP- (4.0 - 5.0) SAND fine; well sorted; moist; black (10YR 2/1) Note: strong odor	GP-5 4.0' - 5.0'	-	0.0
6		CH- (5.0 - 17.5) CLAY high plasticity; trace fine sand, trace small to medium pebbles, angular; dry; stiff; brown (10YR 4/3) Note: color change to gray (10YR 5/1) at 10.0'		-	0.0
6				-	0.0
8				-	0.0
8			GP-5 8.0' - 9.0'	-	0.0
10			-	0.0	
10			-	0.0	
12			-	0.0	
12			-	0.0	
14			-	0.0	
14			-	0.0	
16			-	0.0	
16			-	0.0	
18		SP- (17.5 - 18.0) SAND fine; well sorted; saturated; dark gray brown (10YR 4/2)		-	0.0
20		CH- (18.0 - 20.0) CLAY high plasticity trace fine sand, trace small pebbles, angular; dry; stiff; gray (10YR 5/1)		-	0.0
22					

Completion Notes: End Of Boring at 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4172-0

Boring No.: P2-GP-6

Project Name: RACER Lansing Plants

Date Drilled: 10/11/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE		No Well Installed	
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts		PID (ppm)
0		Ground Surface				
		(0.0 - 1.0) CONCRETE		-	0.0	
2		SC- (1.0 - 5.0) SAND fine; and clay, trace small pebbles, subrounded; moist; very dark brown (10YR 2/2) Note: strong odor		-	0.0	
				-	0.0	
4	-		0.0			
		GP-5	-	0.0		
		4.0' - 5.0'	-	0.0		
6		SC- (5.0 - 5.3) SAND fine; some clay, little silt, trace small pebbles, subrounded; moist; brown (10YR 2/2)	-	0.0		
		CH- (5.3 - 15.0) CLAY high plasticity; trace fine sand, trace granules to small pebbles, angular; dry; stiff; brown (10YR 4/3)	-	0.0		
8			-	0.0		
			-	0.0		
10			-	0.0		
			-	0.0		
12			-	0.0		
			-	0.0		
14			-	0.0		
			-	0.0		
16						

Completion Notes: End Of Boring at 15' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4172-0

Boring No.: P2-GP-7

Project Name: RACER Lansing Plants

Date Drilled: 10/11/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE		No Well Installed	
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts		PID (ppm)
0		Ground Surface				
		(0.0 - 0.5) CRUSHED STONE/DEBRIS		-	0.0	
2		CL- (0.5 - 9.0) CLAY low plasticity; little fine sand, trace granules to small pebbles, subangular; moist; soft; brown (10YR 4/3)		-	0.0	
		Note: staining /odor (5.0' - 7.5')		-	0.0	
4				-	0.0	
			GP-7	-	0.0	
6			5.0' - 6.0'	-	0.0	
				-	0.0	
8				-	0.0	
				-	0.0	
10		CH- (9.0 - 11.0) CLAY high plasticity; trace fine sand, trace small pebbles, subangular; dry; stiff; brown (10YR 4/3)		-	0.0	
				-	0.0	
12		SM- (11.0 - 11.8) SAND very fine to fine, and silt, saturated; brown (10YR 4/3)		-	0.0	
				-	0.0	
14		CH- (11.8 - 20.0) CLAY high plasticity, trace fine sand, trace small pebbles, angular; dry; stiff; dark gray (10YR 4/1)		-	0.0	
				-	0.0	
16				-	0.0	
				-	0.0	
18				-	0.0	
				-	0.0	
20				-	0.0	

Completion Notes: End Of Boring at 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4172-0

Boring No.: P2-GP-8

Project Name: RACER Lansing Plants

Date Drilled: 10/11/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0 - 0.5) CRUSHED STONE		-	0.0	
		CLS- (0.5 - 7.5) CLAY		-	0.0	
2		low plasticity; some fine sand, trace granules to small pebbles, subangular; moist; soft; brown (10YR 4/3)		-	0.0	
		Note: staining/strong odor 3.5' - 7.5'		-	0.0	
4				-	0.0	
				-	0.0	
6			GP-8 5.0' - 6.0'	-	1.0	
				-	10.9	
				-	4.7	
8		CH- (7.5 - 15.0) CLAY		-	0.0	
		high plasticity; trace fine sand, trace small pebbles, subangular; dry; stiff; brown (10YR4/3)		-	0.0	
10		Note: color change to dark gray (10YR 4/1) at 12.5		-	0.0	
				-	0.0	
12				-	0.0	
				-	0.0	
14				-	0.0	
				-	0.0	
16		CH- (15.0 - 20.0) SAND		-	0.0	
		high plasticity; little fine sand, moist; soft; very dark brown (10YR 2/2)		-	NM	
		Note: slight odor		-	0.0	
18				-	NM	
				-	0.2	
20						

Completion Notes: End Of Boring at 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4172-0

Boring No.: P2-GP-9

Project Name: RACER Lansing Plants

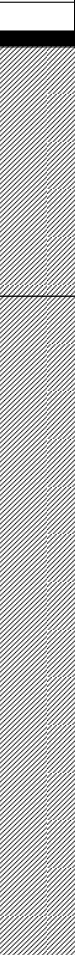
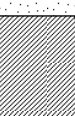
Date Drilled: 10/11/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE		No Well Installed	
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts		PID (ppm)
0		Ground Surface				
		(0.0 - 0.3) ASPHALT		-	0.0	
		CL- (0.3 - 5.0) CLAY		-	0.0	
2		low plasticity; little fine sand, trace granules, subangular; moist; soft; very dark grayish brown (10YR 3/2)		-	0.0	
				-	0.0	
4		GP-9	-	0.0		
		4.0' - 5.0'	-	0.0		
6		CH- (5.0 - 17.5) CLAY	-	0.0		
		high plasticity; trace fine sand, trace small pebbles, subangular; dry; stiff; dark gray (10YR 4/1)	-	0.0		
8		Note: green discoloration 5.0' - 11.0'	-	0.0		
		Note: moderate odor	-	0.0		
			-	0.0		
10			-	0.0		
			-	0.0		
12			-	0.0		
			-	0.0		
14			-	0.0		
			-	0.0		
16			-	0.0		
			-	0.0		
18			SM- (17.5 - 18.0) SAND	-	0.0	
			very fine; and silt, saturated; dark gray (10YR 4/2)	-	0.0	
20	Note: strong odor		-	0.0		
		CH- (18.0 - 20.0) CLAY				
22		high plasticity; trace fine sand, trace small pebbles, angular; dry; stiff; gray (10YR 5/1)				

Completion Notes: End Of Boring at 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4172-0

Boring No.: P2-GP-10

Project Name: RACER Lansing Plants

Date Drilled: 10/12/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0 - 0.8) CONCRETE		-	0.0	
		SP- (0.8 - 7.0) SAND fine to medium; well sorted; moist; brown (10YR 4/3) Note: saturated at 3.0' Note: refusal at 7.0'		-	0.0	
2			GP-10 2.0' - 3.0'	-	0.0	
				-	0.0	
4				-	0.0	
				-	0.0	
6				-	0.0	
				-	0.0	
8						

Completion Notes: End Of Boring at 7' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Well Log .

Project No.: 01-4172-0

Well No.: P2-GP-11/PMW-3

Project Name: RACER Lansing Plants

Date Drilled: 10/12/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			Groundwater Well Completion Details
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				2" PVC Casing 2" 20-Slot PVC Screen Ground Surface 1.20' Approximate Water Level (2.75') 6.20'
		(0.0 - 1.8) CONCRETE		-	NM	
				-	NM	
2		SWG- (1.8 - 4.6) SAND fine; some granules to small pebbles, poorly sorted; angular; moist; black (10YR 2/1) Note: saturated at 4.0', strong odor		-	0.0	
			GP-10	-	0.0	
4			3.0' - 4.0'	-	0.0	
		CLS- (4.6 - 5.0) CLAY low plasticity; some fine sand, trace granules, angular; moist, soft; black (10YR 2/1)		-	0.0	
6		CH- (5.0 - 15.0) CLAY high plasticity; trace fine sand, trace granules, dry; stiff; brown (10YR 4/3) Note: has odor		-	0.0	
				-	0.0	
8		Note: color change to dark gray (10YR 4/1) at 11.0'		-	0.0	
				-	0.0	
10				-	0.0	
				-	0.0	
12				-	0.0	
				-	0.0	
14				-	0.0	
				-	0.0	
16						

Completion Notes: End Of Boring at 15' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted



Boring Log .

Project No.: 01-4172-0

Boring No.: P2-GP-12

Project Name: RACER Lansing Plants

Date Drilled: 10/18/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: 2.175 MC

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0 - 0.5) CRUSHED STONE/VEGETATION		-	0.0	
		CL- (0.5 - 4.7) CLAY low plasticity; little fine sand, trace granules, angular; dry; medium stiff; brown (10YR 4/3)		-	0.0	
2			GP-12 2.0' - 3.0'	-	0.0	
				-	0.0	
4				-	0.0	
				-	0.0	
		SC- (4.7 - 5.0) SAND fine to coarse: subangular; some clay, trace granules, subangular; wet; dark brown (10YR 3/3)	GP-12 5.0' - 6.0'	-	0.0	
6				-	0.0	
		CH- (5.0 - 15.0) CLAY high plasticity; trace fine sand, trace granules to small pebbles, subangular; moist; soft; dark gray (10YR 4/1)		-	0.0	
8				-	0.0	
		Note: gradually transitions to dry, stiff by 10.0'		-	0.0	
10				-	0.0	
				-	0.0	
12				-	0.0	
				-	0.0	
14				-	0.0	
				-	0.0	
16						

Completion Notes: End Of Boring at 15' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4172-0

Boring No.: P2-GP-13

Project Name: RACER Lansing Plants

Date Drilled: 10/19/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: 2.175 MC

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0 - 2.0) CONCRETE		-	NA	
				-	NA	
2		SW- (2.0 - 5.5) SAND fine; little granules to small pebbles, subrounded; moist; very dark brown (10YR 2/2) Note: saturated at 4.0' Note: strong odor	GP-13 2.0' - 3.0'	-	0.0	
				-	0.0	
4				-	0.0	
				-	0.0	
6		CH- (5.5 - 10.0) CLAY high plasticity; trace fine sand, trace granules, subangular; dry; stiff; dark gray (10YR 4/1) Note: odor	GP-13 6.0' - 7.0'	-	0.0	
				-	0.0	
8				-	0.0	
				-	0.0	
10						

Completion Notes: End Of Boring at 10' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4172-0

Boring No.: P2-GP-14

Project Name: RACER Lansing Plants

Date Drilled: 10/19/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: 2.175 MC

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0 - 0.3) ASPHALT				
		SP- (0.3 - 3.0) SAND fine; well sorted; moist; brown (10YR 4/3)		-	0.0	
			GP-14	-	0.0	
2			1.0' - 2.0'	-	0.0	
				-	0.0	
		CLS- (3.0 - 4.0) CLAY low plasticity; some fine sand, trace granules, subangular; moist; soft; very dark brown (10YR 2/2)		-	0.0	
4		Note: strong odor		-	0.0	
		CH- (4.0 - 10.0) CLAY high plasticity; trace fine sand, trace granules to small pebbles, subangular; dry; stiff; brown (10YR 4/3)		-	0.0	
6		Note: 5.5' - 5.8' SP - saturated sand		-	0.0	
			GP-14	-	0.0	
			6.0' - 7.0'	-	0.0	
				-	0.0	
8				-	0.0	
				-	0.0	
10				-	0.0	

Completion Notes: End Of Boring at 10' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4172-0

Boring No.: P2-GP-15

Project Name: RACER Lansing Plants

Date Drilled: 10/19/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: 2.175 MC

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0 - 0.4) ASPHALT				
		SP- (0.4 - 5.0) SAND fine; trace small pebbles, subrounded; well sorted; moist; dark brown (10YR 2/2)		-	0.0	
2		Note: odor 4.0' - 5.0'	GP-15 1.0' - 2.0'	-	0.0	
				-	0.0	
4			GP-15 4.0' - 5.0'	-	0.0	
				-	0.0	
6		CH- (5.0 - 8.0) CLAY high plasticity; trace fine sand, trace granules, subangular; dry; stiff; brown (10YR 4/3)				
8		SW- (8.0 - 9.5) SAND fine to coarse; poorly sorted; subangular; saturated; very dark brown (10YR 2/2)				
		Note: odor/sheen				
10		CH- (9.5 - 15.0) CLAY high plasticity; trace fine sand, trace granules to small pebbles, subangular; dry; stiff; dark gray (10YR 4/1)	GP-15 10.0' - 11.0'			
12						
14						
16						

Completion Notes: End Of Boring at 15' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4172-0

Boring No.: P2-GP-16

Project Name: RACER Lansing Plants

Date Drilled: 10/19/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: 2.175 MC

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0 - 0.4) ASPHALT				
		SP- (0.4 - 5.0) SAND fine; trace small pebbles, subrounded; well sorted; moist; dark brown (10YR 2/2)		-	0.0	
2		Note: odor 4.0' - 5.0'	GP-15 1.0' - 2.0'	-	0.0	
				-	0.0	
4			GP-15 4.0' - 5.0'	-	0.0	
				-	0.0	
6		CH- (5.0 - 8.0) CLAY high plasticity; trace fine sand, trace granules, subangular; dry; stiff; brown (10YR 4/3)				
8		SW- (8.0 - 9.5) SAND fine to coarse; poorly sorted; subangular; saturated; very dark brown (10YR 2/2)				
		Note: odor/sheen				
10		CH- (9.5 - 15.0) CLAY high plasticity; trace fine sand, trace granules to small pebbles, subangular; dry; stiff; dark gray (10YR 4/1)	GP-15 10.0' - 11.0'			
12						
14						
16						

Completion Notes: End Of Boring at 15' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Well Log .

Project No.: 01-4172-0

Well No.: P2-GP/PMW-1

Project Name: RACER Lansing Plants

Date Drilled: 10/11/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			Groundwater Well Completion Details
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0.0 - 0.4		ASPHALT		-	0.0	
0.4 - 1.0		SAND fine; trace small pebbles, subrounded; well sorted; moist; brown (10YR4/3)		-	0.0	
1.0 - 4.0		SAND fine; and clay, trace granules to small pebbles, subrounded; moist; dark brown (10YR2/2)		-	0.0	
4.0 - 7.5		CLAY low plasticity; some fine sand, moist; very dark brown (10YR 2/2) Note: seam of saturated fine sand 5.5' - 5.8'		-	0.0	
7.5 - 17.0		CLAY high plasticity; trace fine sand, trace granules to small pebbles, subangular; dry; stiff; dark gray (10YR 4/1) Note: thin seam of sand and small to medium pebbles at 7.5 (saturated)	GP-1 7.0' - 7.5'	-	0.0	
17.0 - 18.0		SAND , fine; and clay, trace small pebbles, subrounded; saturated; dark gray (10YR 4/2)		-	0.0	
18.0 - 20.0		CLAY , high plasticity; trace fine sand, trace granules, angular; dry; stiff; gray (10YR 5/1)		-	0.0	
20.0						
22.0						

Completion Notes: End Of Boring at 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted



Well Log .

Project No.: 01-4172-0

Well No.: P2-GP/PMW-2

Project Name: RACER Lansing Plants

Date Drilled: 10/11/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			Groundwater Well Completion Details
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0 - 0.4) ASPHALT		-	0.0	
		SP- (0.4 - 1.0) SAND fine; trace small pebbles, subrounded; well sorted; moist; brown (10YR 4/3)	GP-2 1.0' - 2.0'	-	0.0	
2		CL- (1.0 - 7.5) CLAY medium plasticity; little fine sand, trace granules to small pebbles, subrounded; moist; soft; brown (10YR 4/3)		-	0.0	
4		Note: staining /odor @1.0'- 2.0'		-	0.0	
6				-	0.0	
8		SWG- (7.5 - 7.7) SAND fine to coarse; some granules to small pebbles, subrounded; poorly sorted; saturated; very dark brown (10YR 2/2)	GP-2 7.0' - 7.5'	-	0.0	
10		CH- (7.7 - 15.0) CLAY high plasticity; trace fine sand, trace granules to small pebbles, subangular; dry; stiff; dark gray (10YR 4/1)		-	0.0	
12				-	0.0	
14				-	0.0	
16				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	

Completion Notes: End Of Boring at 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted

Date Start/Finish: 9.17.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450190.3245 Easting: 13064312.96 Casing Elevation: NA Borehole Depth: 14.0' bgs Surface Elevation: 875.98 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A1-RJ78 Client: RACER Location: RACER Lansing Plant 2
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	0								
		1	0.0-5.0	4.7	NA			(0.0-0.3') ASPHALT. (0.3-13.5') SAND, fine, trace small pebbles; well sorted; moist; brown (10YR 4/3). NOTE: FILL.	
					0.0				
					0.0				
					0.0				
					0.0				
-5	-5				0.0				
		2	5.0-10.0	3.7	0.0				
					0.0				
					0.0				
					0.0				
					0.0				
-10	-10				0.6			NOTE: Saturated at 10.5' bgs. NOTE: Black staining from 11.0-12.0' bgs.	
		3	10.0-14.0	3.5	1.8				
					1.9			(13.5-14.0') PEASTONE, granules to small pebbles, rounded; poorly sorted; saturated. NOTE: REFUSAL at 14.0' bgs.	
					0.2				
								End of boring at 14.1' bgs due to refusal.	
-15	-15								

	Remarks: bgs = below ground surface Groundwater encountered at 10.5' bgs and from 13.5'-14.0' bgs. Staining observed from 11.0'-12.0' bgs. No odor.
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Date Start/Finish: 9.17.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450186.9497 Easting: 13064324.61 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 875.84 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A1-RJ79 Client: RACER Location: RACER Lansing Plant 2
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[illegible]

Stationing	Layer No.	Thickness (ft)	Material Description
0.0	1	0.0-5.0	(0.0-0.4') ASPHALT.
5.0	2	5.0-10.0	(0.4-10.0') SAND, fine, trace small pebbles, subrounded; well sorted; moist; brown (10YR 4/3). NOTE: FILL.
10.0	3	10.0-15.0	(10.0-15.0') CLAY, high plasticity; trace fine sand, trace granules to small pebbles, subangular; dry; medium stiff; gray (10YR 5/1).

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 9.17.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450186.9497 Easting: 13064324.61 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 875.84 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A1-RJ79 Client: RACER Location: RACER Lansing Plant 2
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	-15	4	15.0-20.0	5.0	0.0			(15.0-16.7') SILT, slow dilatancy; little fine sand; moist; dense; gray(10YR 5/1).	
					0.0			(16.7-20.0') CLAY, high plasticity; trace fine sand, trace granules to medium pebbles, angular; dry; stiff; gray (10YR 5/1).	
20	-20				0.0			End of boring at 20.0' bgs.	
25	-25								

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 9.17.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450157.5253 Easting: 13064084.75 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 875.97 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A1-RM55 Client: RACER Location: RACER Lansing Plant 2
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	0								
		1	0.0-5.0	4.7	NA			(0.0-0.3') ASPHALT.	
					0.0			(0.3-5.5') CLAY, medium plasticity; some fine sand, trace granules, subangular; moist; medium stiff; dark brown (10YR 3/3).	
					0.0				
					0.0				
					0.0			NOTE: Color change to brown (10YR 4/3) at 4.0' bgs.	
5	-5	2	5.0-9.0	4.0				(5.5-18.2') CLAY, high plasticity; trace fine sand, trace granules to small pebbles, angular to subangular; dry; stiff; brown (10YR 4/3).	
					0.0				
					0.0				
					0.0				
					0.0				
10	-10	3	9.0-12.0	3.0				NOTE: Color change to gray (10YR 5/1) at 10.0' bgs.	
					0.0				
					0.0				
					0.0				

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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[illegible]

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 6/7/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450113.37 Easting: 13064311.56 Casing Elevation: NA Borehole Depth: 18.0' bgs Surface Elevation: 876.11 Descriptions By: M. Meckley	Well/Boring ID: SB-A1-RQ78 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
875					NA				
					NA				
					NA				
					NA				
5					NA				
870					NA				
					NA				
					NA				
					NA				
10					NA				
865					NA				
					NA				
	1	12.0-15.0	4.0	221.6		(12.0-13.5) SAND, fine to medium, trace coarse sand to trace granule, subangular; poorly sorted; wet; dark gray (10YR 4/1).			
				217.1		NOTE: very fine to fine sand; little clay; well sorted at 13.0' bgs. (13.5-15.0) CLAY, little silt, medium to low plasticity; trace very fine sand, trace			



Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater encountered from 12-13.5' bgs Strong odor observed at 12.0' bgs Stepout boring, began logging at 12.0' bgs
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Date Start/Finish: 6/7/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450113.37 Easting: 13064311.56 Casing Elevation: NA Borehole Depth: 18.0' bgs Surface Elevation: 876.11 Descriptions By: M. Meckley	Well/Boring ID: SB-A1-RQ78 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	860	2	15.0-18.0	3.0	22.3			granule, subrounded to subangular; no dilatancy; dry; medium stiff to stiff; dark yellowish brown (10YR 4/4). NOTE: color change to dark grayish brown; medium stiff at 14.5' bgs.	
					44.2			(15.0-18.0) CLAY, little silt, high plasticity; trace very fine sand, trace granule, subrounded to subangular; no dilatancy; dry; medium stiff to soft; dark grayish brown.	
					34.2				
					5.0			NOTE: medium stiff at 17.0' bgs. NOTE: trace silt; no sand at 17.5' bgs.	
20	855							End of boring at 18.0' bgs.	
25	850								
30									

	Remarks: BGS = Below ground surface Groundwater encountered from 12-13.5' bgs Strong odor observed at 12.0' bgs Stepout boring, began logging at 12.0' bgs
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Date Start/Finish: 5/17/12 Drilling Company: GeoServ Driller's Name: Dean Govan Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450096.24 Easting: 13064309.70 Casing Elevation: NA Borehole Depth: 12.9' bgs Surface Elevation: 876.16 Descriptions By: Ian Drost	Well/Boring ID: SB-A1-RS78 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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876									
875		1	0.0-5.0	5.0	NA			(0.0-1.0) CONCRETE	
					0.0			(1.0-7.5) SAND, very fine to fine, trace granules to small pebbles, subrounded; well sorted; dry; yellowish brown (10YR 5/6). NOTE: FILL.	
					0.6				
					0.8				
5					0.3				
870		2	5.0-10.0	4.1	0.0				
					0.0				
					0.0			(7.5-11.0) SAND, very fine to coarse, little granules to small pebbles, subangular to subrounded; little silt; poorly sorted; moist; brown (10YR 4/3).	
					0.0				
10					0.7				
865		3	10.0-12.0	2.0	103.9			NOTE: wet at 9.8' bgs. NOTE: strong odor; color change to gray (10YR 3/1); at 10.3' bgs.	
					161.3			(11.0-12.9) SAND, very fine to fine, trace medium sand, subrounded; some silt; well sorted; wet; gray (10YR 5/1). NOTE: Odor.	
		4	12.0-12.9	.9	71.1				
								End of boring at 12.9' bgs due to refusal	

	Remarks: BGS = Below ground surface Groundwater detected at 9.8' bgs Odor detected at 10.3' bgs No staining detected
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Date Start/Finish: 5/17/12 Drilling Company: GeoServ Driller's Name: Dean Govan Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450063.19 Easting: 13064277.15 Casing Elevation: NA Borehole Depth: 27.5' bgs Surface Elevation: 876.11 Descriptions By: Ian Drost	Well/Boring ID: SB-A1-RV74 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
875		1	0.0-5.0		NA			(0.0-1.0) CONCRETE	
					0.1			(1.0-3.0) CLAY, some silt; low plasticity; trace granules, subrounded; no dilatancy; dry; soft; brown (10YR 4/3).	
					0.8				
					0.8			(3.0-14.5) CLAY, trace silt, high plasticity; trace granules to small pebbles, subrounded; no dilatancy; dry to moist; olive brown (2.5Y 4/3).	
5					0.7				
870		2	5.0-7.5	2.5	0.4				
					0.1				
		3	7.5-10.0	2.5	0.1				
					51.2				
					2.6				
10									
865		4	10.0-12.5	2.5	1.7				
					0.6				
					0.4				

	Remarks: BGS = Below ground surface Groundwater detected between 14.5'-16.0' and 16.0'-17.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/17/12 Drilling Company: GeoServ Driller's Name: Dean Govan Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450063.19 Easting: 13064277.15 Casing Elevation: NA Borehole Depth: 27.5' bgs Surface Elevation: 876.11 Descriptions By: Ian Drost	Well/Boring ID: SB-A1-RV74 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	860	5	12.5-15.0	2.5	0.2				
					0.2			(14.5-16.0) SAND, very fine to coarse, some granules, trace small pebbles, subangular to subrounded; trace silt; poorly sorted; wet; brown (10YR 4/3).	
20	855	6	15.0-17.5	2.5	0.1			(16.0-17.0) SILT, low plasticity; some very fine sand, trace granules, subrounded to round; rapid dilatancy; wet; soft; gray (10YR 5/1).	
					0.0			(17.0-20.0) CLAY, little silt, low plasticity; trace granules to small pebbles, subangular; no dilatancy; dry to moist; stiff; gray (10YR 5/1).	
		7	17.5-20.0	2.5	0.0				
					0.0			(20.0-27.5) CLAY, some silt, low plasticity; trace granules to small pebbles, subrounded; no dilatancy; dry to moist; medium stiff; gray (10YR 5/1).	
25	850	8	20.0-22.5	2.5	0.0				
					0.0				
		9	22.5-25.0	2.5	0.0				
					0.0			NOTE: stiff at 25.0' bgs.	
		10	25.0-27.5	2.5	0.0				
								End of boring at 27.5' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 14.5'-16.0' and 16.0'-17.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/18/12 Drilling Company: GeoServ Driller's Name: Dean G Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450063.77 Easting: 13064346.15 Casing Elevation: NA Borehole Depth: 27.5' bgs Surface Elevation: 876.24 Descriptions By: Ian Drost	Well/Boring ID: SB-A1-RV81 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
875		1	0.0-5.0	5.0	NA			(0.0-0.5) ASPHALT	
					0.0			(0.5-10.5) CLAY, some silt, low plasticity; trace granules to small pebbles, subrounded; no dilatancy; dry; medium stiff; olive brown (2.5Y 4/3).	
					0.0				
					0.0				
					0.0				
5					0.0				
870		2	5.0-7.5	2.5	0.0				
					0.0				
					0.0				
		3	7.5-10.0	2.5	0.0			NOTE: moist at 8.5' bgs.	
					0.0				
10					0.0				
865		4	10.0-12.5	2.5	0.0			(10.5-12.0) CLAY, little silt, high plasticity; little granules to small pebbles, subangular; no dilatancy; moist to dry; stiff; olive brown (2/5Y 4/3).	
					0.0				
					0.0			(12.0-20.0) CLAY, some silt, low plasticity; little granules to medium pebbles, subangular to subrounded; no dilatancy; moist; medium stiff; gray (10YR 5/1).	
					0.0				

	Remarks: BGS = Below ground surface Groundwater detected at 16.8', 19.3' and between 20.0'-21.5' and 25.0'-26.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/18/12 Drilling Company: GeoServ Driller's Name: Dean G Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450063.77 Easting: 13064346.15 Casing Elevation: NA Borehole Depth: 27.5' bgs Surface Elevation: 876.24 Descriptions By: Ian Drost	Well/Boring ID: SB-A1-RV81 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	860	5	12.5-16.0	3.5	0.0				
					0.0				
					0.0				
					0.0				
		6	16.0-19.5	3.5	0.0			NOTE: 1.5" SAND seam, very fine to fine; some silt; wet; at 16.8' bgs.	
					0.0				
					0.0				
					0.0				
20	855	7	19.5-22.5	2.5	0.0			NOTE: moist to wet at 19.3' bgs.	
					0.0			(20.0-21.5) SILT, trace clay, low plasticity; some very fine sand, round; moist to wet; stiff, gray (10YR 5/1).	
					0.0			(21.5-25.0) CLAY, little silt, low plasticity; little granules to small pebbles, trace medium pebbles, subangular; no dilatancy; dry; stiff, gray (10YR 3/1).	
					0.0				
		8	22.5-25.0	2.5	0.0				
					0.0				
25					0.0			(25.0-26.0) SILT, low plasticity; some very fine sand; trace granules to small pebbles, subrounded; moist to wet; soft, gray (10YR 3/1).	
	850	9	25.0-27.5	2.5	0.0			(26.0-27.5) CLAY, little silt, low plasticity; little granules to small pebbles, trace medium pebbles, subangular; no dilatancy; dry; stiff, gray (10YR 3/1).	
					0.0				
								End of boring at 27.5' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected at 16.8', 19.3' and between 20.0'-21.5' and 25.0'-26.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/18/12 Drilling Company: Stock Driller's Name: Dean G Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450034.42 Easting: 13064311.31 Casing Elevation: NA Borehole Depth: 22.5' bgs Surface Elevation: 875.82 Descriptions By: Ian Drost	Well/Boring ID: SB-A1-RY78 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
875		1	0.0-5.0	5.0	0.0			(0.0-0.5) CONCRETE	
					0.0			(0.5-14.5) CLAY, some silt, low plasticity; little very fine sand, trace granules to small pebbles, subangular to subrounded; no dilatancy; dry; medium stiff; olive brown (2.5YR 4/3).	
					0.0				
					0.0				
					0.0				
5					0.0				
870		2	5.0-7.5	2.5	0.0				
					0.0				
					0.0				
					0.0				
		3	7.5-10.0	2.5	0.0				
					0.0				
					0.0				
10					0.0				
865		4	10.0-12.5	2.5	0.0				
					0.0				
					0.0				
					0.0				

	Remarks: BGS = Below ground surface Groundwater detected between 16.2'-17.4' and 17.6'-20.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/18/12 Drilling Company: Stock Driller's Name: Dean G Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450034.42 Easting: 13064311.31 Casing Elevation: NA Borehole Depth: 22.5' bgs Surface Elevation: 875.82 Descriptions By: Ian Drost	Well/Boring ID: SB-A1-RY78 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	860	5	12.5-15.0	2.5	0.0			NOTE: color change to gray (10YR 5/1) at 13.0' bgs.	Borehole backfilled with Grout.
					0.0			(14.5-16.2) CLAY, little silt, low plasticity; little granules to small pebbles, subangular; no dilatancy; dry; stiff; gray (10YR 5/1).	
20	855	6	15.0-17.5	2.5	0.0			(16.2-17.4) SILT, low plasticity; some very fine sand, subrounded; rapid dilatancy; wet; soft; gray (10YR 5/1).	
					0.0			(17.4-17.6) CLAY, little silt, low plasticity; little granules to small pebbles, trace medium pebbles, subangular; dry to moist; stiff; gray (10YR 5/1).	
		7	17.5-20.0	2.5	0.0			(17.6-20.0) SILT, low plasticity; some very fine sand, trace granules, subrounded; rapid dilatancy; wet; soft; gray (10YR 5/1).	
25	850	8	20.0-22.5	1.7	0.0			(20.0-22.5) CLAY, little silt, low plasticity; trace granules to small pebbles, subrounded; dry to moist; stiff; gray (10YR 5/1).	
					0.0			End of boring at 22.5' bgs	

	Remarks: BGS = Below ground surface Groundwater detected between 16.2'-17.4' and 17.6'-20.0' bgs No Odor or Staining detected
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Boring Log .

Project No.: 01-4172-0

Boring No.: SB-A2-OB52

Project Name: RACER Lansing Plants

Date Drilled: 11/07/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
2		CL- (0.0 - 6.8) CLAY low plasticity; little fine sand, trace small to large pebbles, subangular; moist; medium stiff; brown (10YR 4/3)		-	0.0	
4				-	0.0	
6				-	0.0	
8		SP- (6.8 - 16.5) SAND fine, well sorted; moist; dark grayish brown (10YR 4/2)		-	0.0	
10		Note: becomes saturated at 11.5' bgs		-	0.0	
12			OB-52	-	0.0	
14				-	0.0	
16			11.0' - 15.0'	-	0.0	
18		CH- (16.5 - 21.0) CLAY high plasticity; trace fine sand, trace small pebbles, subangular; dry; stiff; gray (10YR 5/1)		-	0.0	
20				-	0.0	
22		SP- (21.0 - 24.5) SAND fine; well sorted; saturated; dark grayish brown (10YR 4/2)		-	0.0	
24				-	0.0	
26		CH- (24.5 - 29.2) CLAY high plasticity; trace fine sand, trace granules to small pebbles, angular; dry; stiff; gray (10YR 5/1)		-	0.0	
28				-	0.0	
30		SM- (29.2 - 30.0) SAND very fine; and silt; moist; dense; gray (10YR 5/1)		-	0.0	

Completion Notes: End Of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A2-OP67

Project Name: RACER Lansing Plants

Date Drilled: 9/13/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed		
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)			
0		Ground Surface						
		- (0.0 - 0.7) CONCRETE		-	NM			
2		SP- (0.7 - 2.0) SAND, very fine; trace small pebble; subrounded; moist; well sorted; (10YR 4/3 brown)	OP-67 1.0' - 2.0'	-	0.0			
4		CL- (2.0 - 9.1) CLAY, medium plasticity; little fine; sand, little granules to small pebbles, subrounded; subangular; dry; medium; stiff; brown; (10YR 4/3)		-	0.0			
6				-	0.0			
8				-	0.0			
				OP-67 7.0'- 8.0'	-		0.0	
					-		0.0	
10			SW- (9.1 - 14.0) SAND, very fine to fine; trace coarse sand, well sorted subangular; moist;dark yellowish brown; (10YR 4/6)		-		0.0	
12				-	0.0			
					-		0.0	
14		SW- (14.0 - 15.0) SAND, fine; some granules to small pebbles subrounded; poorly sorted; moist; dark gray (10YR 4/1)		OP-67 14.0' - 15.0'	-		0.0	
16					-		0.0	
18			CH- (15.0 - 24.0) CLAY, high plasticity; trace fine sand, trace granules to small pebbles, angular; dry; stiff; grey (10YR 3/1)		-		0.0	
20					OP-67 19.0' - 20.0'		-	0.0
22							-	0.0
24					-		0.0	
26		SP- (24.0 - 30.0) SAND, very fine; trace small pebbles, subrounded; well sorted;moist; brown; (10YR 4/3)		OP-67 24.0' - 25.0'	-		0.0	
28				-	0.0			
					-		0.0	
				OP-67 28.0' - 29.0'	-		0.0	
30					-		0.0	
32								

Completion Notes: End Of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A2-OT59

Project Name: RACER Lansing Plants

Date Drilled: 9/13/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0		- (0.0 - 0.9) CONCRETE		-	NM	
2		SP- (0.9 - 2.0) SAND, very fine; trace small pebble, subrounded; moist; well sorted; brown (10YR 4/3)	OT-59 1.0' - 2.0'	-	0.0	
4		CH- (2.0 - 17.0) CLAY, medium plasticity; trace fine, sand, trace small pebbles, subangular; dry; stiff; brown (10YR 4/3)	OT-59 5.0' - 6.0'	-	0.0	
6		NOTE: increase in sand to little at 14.0' bgs		-	0.0	
8				-	0.0	
10			OT-59 10.0' - 11.0'	-	0.0	
12				-	0.0	
14				-	0.0	
16			OT-59 16.0' - 20.0'	-	0.0	
18				-	0.0	
20				-	0.0	
22			OT-59 23.0' - 24.0'	-	0.0	
24				-	0.0	
26				-	0.0	
28			OT-59 29.0' - 30.0'	-	0.0	
30						
32						

Completion Notes: End Of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A2-OT74

Project Name: RACER Lansing Plants

Date Drilled: 9/13/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0 - 0.3) ASPHALT		-	NM	
2		(0.3 - 0.9) CONCRETE	OT-74 1.0' - 2.0'	-	0.0	
				-	0.0	
4		CLS- (0.9 - 5.5) CLAY, low plasticity, some fine sand, trace small pebbles subrounded; dry; medium to stiff; brown (10YR 4/3)		-	0.0	
				-	0.0	
6		SP- (5.5 - 16.5) SAND, very fine to fine; trace small pebbles, angular; well sorted; moist; yellowish brown (10YR 5/4)	OT-74 6.0' - 7.0'	-	0.0	
				-	0.0	
8				-	0.0	
				-	0.0	
10		NOTE: saturated at 14.0' bgs	OT-74 10.0' - 11.0'	-	0.0	
				-	0.0	
12			OT-74 12.0' - 16.0'	-	0.0	
				-	0.0	
14				-	0.0	
				-	0.0	
16				-	0.0	
				-	0.0	
18		CL- (16.5 - 19.0) CLAY, low plasticity; little fine sand, trace granules to small pebbles, angular; dry; stiff; brown (10YR 4/3)	OT-74 17.0' - 18.0'	-	0.0	
				-	0.0	
20		NOTE: color transition to dark gray (10YR 4/1) plasticity increase to high at 17.5' bgs		-	0.0	
				-	0.0	
22		NOTE: sweet odor from 17.5' to 18.0' bgs		-	0.0	
				-	0.0	
24		CH- (19.0 - 26.0) CLAY, high plasticity; some fine sand, trace granules to small pebbles, angular; moist; soft; gray (10YR 5/1)	OT-74 23.0' - 24.0'	-	0.0	
				-	0.0	
26				-	0.0	
				-	0.0	
28		SP- (26.0 - 30.0) SAND, very fine; well sorted; moist; dense; gray (10YR 5/1)		-	0.0	
				-	0.0	
30			OT-74 29.0' - 30.0'	-	0.0	
32						

Completion Notes: End Of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4172-0

Boring No.: SB-A2-OU52

Project Name: RACER Lansing Plants

Date Drilled: 11/07/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0		SP- (0.0 - 1.0) SAND fine; trace granules to small pebbles, subrounded; well sorted; moist; brown (10YR 4/3)	OU-52	-	0.0	
2				-	0.0	
2			OU-52 2.0' - 3.0'	-	0.0	
4		CL- (1.0 - 3.0) CLAY low plasticity; little fine sand, trace granules, subangular; moist; medium stiff; dark brown (10YR 3/3)		-	0.0	
4				-	0.0	
6				-	0.0	
6		CH- (3.0 - 15.5) CLAY high plasticity; trace fine sand, trace granules to small pebbles, subangular; dry; stiff; brown (10YR 4/3 brown)		-	0.0	
8			OU-52 7.0' - 8.0'	-	0.0	
8				-	0.0	
10				-	0.0	
10				-	0.0	
12				-	0.0	
12				-	0.0	
14			OU-52 13.0' - 14.0'	-	0.0	
14				-	0.0	
16		SW- (15.5 - 17.3) SAND fine to coarse; subangular; trace granules to small pebbles, subrounded; trace clay, saturated; brown (10YR 4/3)	OU-52	-	0.0	
16				-	0.0	
18				-	0.0	
18		Note: soil sample at 18.0' - 19.0'	15.0' - 19.0'	-	0.0	
20		CH- (17.3 - 27.0) CLAY high plasticity; trace fine sand, trace small pebbles, angular; dry; stiff; gray (10YR 5/3)		-	0.0	
22				-	0.0	
22				-	0.0	
24			OU-52 24.0' - 25.0'	-	0.0	
24				-	0.0	
26				-	0.0	
26				-	0.0	
28		ML- (27.0 - 30.0) SILT moist; medium dilatancy; dense; gray (10YR 5/1)		-	0.0	
28			OU-52 29.0' - 30.0'	-	0.0	
30						

Completion Notes: End Of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A2-OX62

Project Name: RACER Lansing Plants

Date Drilled: 9/5/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0		(0.0 - 0.5) TOPSOIL/VEGATATION		-	0.0	
2		CL- (0.5 - 5.0) CLAY, medium plasticity; trace fine sand, dry; stiff; brown (10YR 4/3)	OX-62 1.0' - 2.0'	-	0.0	
4				-	0.0	
4				-	0.0	
6		SP- (5.0 - 5.5) SAND, fine to medium; well sorted; moist; yellow brown (10YR 5/4)	OX-62 5.0' - 6.0'	-	0.0	
8		CL- (5.5 - 17.6) CLAY, medium plasticity; trace fine sand, trace granules to small pebbles, subangular to subrounded		-	0.0	
10				-	0.0	
12		NOTE: Transition to dark gray (10YR 4/1) at 16.0' bgs		-	0.0	
14				-	0.0	
16				-	0.0	
18				-	0.0	
18		SP- (17.6 - 20.0) SAND, fine to medium; well sorted; saturated; yellow brown (10YR 5/4)	OX-62 17.0' - 21.0'	-	0.0	
20				-	0.0	
22		CH- (20.0 - 29.0) CLAY, high plasticity; trace fine sand, trace granules to small pebbles, angular; dry; stiff; dry gray (10YR 4/1)		-	0.0	
24			OX-62 23.0' - 24.0'	-	0.0	
26				-	0.0	
28				-	0.0	
30		CLS- (29.0 - 30.0) CLAY, low plasticity; some fine sand, trace small to medium peddles, subrounded; moist; stiff; dark gray (10YR 4/1)	OX-62 29.0' - 30.0'	-	0.0	
32				-	0.0	

Completion Notes: End of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A2-OX70

Project Name: RACER Lansing Plants

Date Drilled: 9/5/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE		No Well Installed		
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts		PID (ppm)	
0		Ground Surface					
		(0.0 -0.9) CONCRETE		-	0.0		
2		SW- (0.9 - 2.0) SAND, fine to medium, trace small pebbles, subrounded; poorly sorted; moist; (10YR 4/3 brown)		-	0.0		
4		CL- (2.0 - 10.5) CLAY, medium plasticity; little fine sand, trace small pebbles, subangular; dry; stiff; brown; (10YR 4/3)	OX-70 3.0' - 4.0'	-	0.0		
6				-	2.5		
8				-	0.9		
				-	0.0		
				-	0.0		
				-	0.0		
10		SP- (10.5 - 11.5) SAND, very fine to fine, trace small to medium pebbles, angular; moist to wet; yellowish brown (10YR 4/6 dark)	OX-70 9.0' - 10.0'	-	0.0		
12				-	0.0		
14				OX-70 11.0' - 12.0'	-		0.0
16					-		0.0
18					-		0.0
20					-		0.0
22		CLS- (11.5 - 14.0) CLAY, low plasticity and sand, fine, little small to large pebbles angular to subrounded ;poorly sorted; moist; dark yellowish brown (10YR 3/4)	OX-70 16.0' - 17.0'	-	0.0		
24				-	0.0		
26					-		0.0
28					-		0.0
30					-		0.0
32					-		0.0
		CL- (14.0 - 21.0) CLAY, medium plasticity; trace fine sand, trace granules to small pebbles, angular;dry;stiff ;brown (10YR 4/3 brown)		-	0.0		
				-	0.0		
				-	0.0		
				-	0.0		
				-	0.0		
				-	0.0		
		NOTE:2" seam of very fine sand ; little silt from 16.0' to 16.2'; slow diatency; wet dark yellowish brown (10YR)	OX-70 21.0' - 25.0'	-	0.0		
				-	0.0		
					-	0.0	
					-	0.0	
					-	0.0	
					-	0.0	
		SP- (21.0 - 23.0) SAND, very fine; well sorted; saturated ;brown: (10YR 4/3)		-	0.0		
				-	0.0		
					-	0.0	
					-	0.0	
					-	0.0	
					-	0.0	
		CH- (23.0 - 28.0) CLAY, medium plasticity; little fine sand, trace granules, small pebbles, angular; moist; stiff; dark gray (10YR 4/1)		-	0.0		
				-	0.0		
				-	0.0		
				-	0.0		
				-	0.0		
				-	0.0		
		CLS- (28.0 - 30.0) CLAY, low plasticity; some fine sand, trace granules to small pebbles, subangular; moist; stiff; dark gray (10YR 4/1)	OX-70 29.0' - 30.0'	-	0.0		
				-	0.0		
					-	0.0	
					-	0.0	
					-	0.0	
					-	0.0	

Completion Notes: End of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4172-0

Boring No.: SB-A2-0X76

Project Name: RACER Lansing Plants

Date Drilled: 11/08/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0		(0.0 - 0.4) ASPHALT		-	0.0	
2		(0.4 - 1.0) CONCRETE		-	0.0	
2		CLS- (1.0 - 15.0) CLAY	OX-76 2.0' - 3.0'	-	0.0	
4		low plasticity; some fine sand, trace granules to small pebbles, subangular; moist; soft; brown (10YR 4/3)		-	0.0	
6		Note: seam of fine sand at 7.0' - 7.5'; moist SP		-	0.0	
8		Note: seam of fine sand at 13.5' - 13.7'; moist SP	OX-76 7.0' - 8.0'	-	0.0	
10				-	0.0	
12				-	0.0	
14			OX-76 13.0' - 14.0'	-	0.0	
16		CH- (15.0 - 30.0) CLAY		-	0.0	
18		high plasticity; trace fine sand, trace granules, subangular; moist; soft; dark gray (10YR 4/1)		-	0.0	
20		Note: poor recovery at 15.0' - 30.0'	OX-76 18.0' - 19.0'	-	0.0	
22				-	0.0	
24			OX-76 23.0' - 24.0'	-	0.0	
26				-	0.0	
28			OX-76 28.0' - 30.0'	-	0.0	
30				-	0.0	

Completion Notes: End Of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4172-0

Boring No.: SB-A2-OY47

Project Name: RACER Lansing Plants

Date Drilled: 11/30/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE		No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts PID (ppm)	
0		Ground Surface			
		(0.0 - 0.3) ASPHALT		- 0.0	
2		SP- (0.3 - 3.0) SAND fine; trace small pebbles, subrounded; well sorted; moist; brown (10YR 4/3)	OY-37 2.0' - 3.0'	- 0.0	
4		CL- (3.0 - 9.0) CLAY low plasticity; little fine sand, trace granules, subangular; moist; medium stiff; brown (10YR 4/3)		- 0.0	
6				- 0.0	
8				- 0.0	
			OY-37 8.0' - 9.0'	- 0.0	
10		CH- (9.0 - 30.0) CLAY high plasticity; trace fine sand, trace granules to small pebbles, angular to subangular; moist; medium stiff; brown (10YR 4/3)		- 0.0	
12		Note: transitions to stiff; dry @ 10.5'		- 0.0	
14		Note: transitions to gray @ 13.0' (10YR 5/1)		- 0.0	
16				- 0.0	
18				- 0.0	
			OY-37 18.0' - 19.0'	- 0.0	
20				- 0.0	
22				- 0.0	
24				- 0.0	
26				- 0.0	
28				- 0.0	
30			OY-37 29.0' - 30.0'	- 0.0	

Completion Notes: End Of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4172-0

Boring No.: SB-A2-OY52

Project Name: RACER Lansing Plants

Date Drilled: 11/07/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE		No Well Installed	
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts		PID (ppm)
0		Ground Surface				
		CLS- (0.0 - 1.0) CLAY		-	0.0	
2		low plasticity; some fine sand, trace small pebbles, subrounded; moist; soft; dark brown (10YR 3/3)		-	0.0	
				-	0.0	
4		SP- (1.0 - 4.0) SAND	OY-52 3.0' - 4.0'	-	0.0	
		fine; trace granules to small pebbles, subrounded; well sorted; moist; brown (10YR 5/3)		-	0.0	
6				-	0.0	
		CL- (4.0 - 5.5) CLAY		-	0.0	
8		low plasticity; little fine sand, trace small pebbles, subrounded; dry; medium stiff; brown (10YR 4/3)	OY-52 7.0' - 8.0'	-	0.0	
				-	0.0	
10		CH- (5.5 - 12.0) CLAY		-	0.0	
		high plasticity; trace fine sand, trace granules to small pebbles, subangular; dry; stiff; brown (10YR 4/3)		-	0.0	
12				-	0.0	
		Note: transition to gray (10YR 5/1) at 9.0' bgs	OY-52 12.0' - 13.0'	-	0.0	
14		SP- (12.0 - 12.9) SAND		-	0.0	
		fine; trace granules, subrounded; well sorted, moist; dark yellowish brown (10YR 4/6)		-	0.0	
16				-	0.0	
		CH- (12.9 - 25.0) CLAY		-	0.0	
18		high plasticity; trace fine sand, trace small pebbles, angular; dry; stiff; gray (10YR 5/1)		-	0.0	
		Note: seam of silt, moist; slow dilatancy at 20.0' - 20.5'		-	0.0	
20				-	0.0	
			OY-52 20.0' - 21.0'	-	0.0	
22				-	0.0	
				-	0.0	
24				-	0.0	
				-	0.0	
26		ML- (25.0 - 26.0) SILT	OY-52 25.0' - 26.0'	-	0.0	
		moist; medium dilatancy; gray (10YR 5/1)		-	0.0	
28		CH- (26.0 - 30.0) CLAY		-	0.0	
		high plasticity; trace fine sand, trace granules to small pebbles, angular; dry; stiff; gray (10YR 5/1)		-	0.0	
30			OY-52 29.0' - 30.0'	-	0.0	

Completion Notes: End Of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A2-OY56

Project Name: RACER Lansing Plants

Date Drilled: 9/13/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
2		SC- (0.0 - 1.0) SAND, fine; some clay, some organic debris, trace pebbles, subrounded; moist; very dark brown (10YR 2/2)		-	0.0	
4		CLS- (1.0 - 4.0) CLAY, low plasticity; some fine; sand, dry; stiff; dark brown (10YR 3/2)	OY-56 4.0' - 5.0'	-	0.0	
6		SP- (4.0 - 5.0) SAND, fine; trace small pebbles, subrounded; moist; well sorted; dark yellowish brown (10YR 4/6)		-	0.0	
8		CH- (5.0 - 12.5) CLAY, high plasticity; trace fine; sand, trace granules to small pebbles, subangular; dry; stiff; brown (10YR 4/3)	OY-56 8.0' - 9.0'	-	0.0	
10				-	0.0	
12				-	0.0	
14		SM- (12.5 - 13.5) SAND, very fine; and silt slow dilatancy; moist dark yellowish brown (10YR 4/6)	OY-56 13.0' - 14.0'	-	0.0	
16		CH- (13.5 - 20.5) CLAY, high plasticity; trace fine sand, trace granules to small pebbles; subangular; dry; stiff; gray (10YR 5/1)		-	0.0	
18				-	0.0	
20				-	0.0	
22		SP- (20.5 - 23.5) SAND, fine; trace granules, subangular; well sorted; saturated; dark yellowish brown (10YR 4/4)	OY-56 20.0' - 23.0'	-	0.0	
24		CH- (23.5 - 30.0) CLAY, high plasticity; trace fine sand, trace granules to small pebbles, angular; dry; stiff; gray (10YR 5/1)	OY-56 24.0' - 25.0'	-	0.0	
26				-	0.0	
28				-	0.0	
30			OY-56 29.0' - 30.0'	-	0.0	
32						

Completion Notes: End Of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 6/4/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450797.40 Easting: 13064185.89 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 862.45 Descriptions By: Megan Meckley	Well/Boring ID: SB-A2-PA65 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
					0.0			(0.0-0.8) CONCRETE	
					1.6			(0.8-1.0) SAND, medium to coarse, trace granules, subrounded to subangular; trace clay; well sorted; moist; brown (10YR 5/3).	
860		1	0.0-5.0	5.0				(1.0-9.5) CLAY, some silt, high plasticity; little very fine sand; rapid dilatancy; moist; soft; dark yellowish brown (10YR 4/4).	
					2.7				
					2.6				
					1.0			NOTE: slight mottling with very dark grayish brown (10YR 3/2); dry at 4.0' bgs.	
5					0.5			NOTE: very fine SAND seam from 5.0'-7.0' bgs.	
					1.3				
855		2	5.0-9.0	1.6					
					0.7				
					1.2			NOTE: encountered redstone at 8.5' bgs.	
10					0.6			(9.5-10.2) SAND, very fine; little silt; well sorted; wet; yellowish brown (10YR 5/4).	
					0.7			(10.2-11.0) CLAY, trace silt, low plasticity; trace small pebbles, subrounded; no dilatancy; dry; very stiff to hard; dark yellowish brown (10YR 4/6).	
		3	9.0-13.0	3.0				(11.0-14.0) SAND, very fine; little silt; well sorted; dry; pale brown (10YR 6/3).	
					3.3				
850					3.2				

	Remarks: BGS = Below ground surface Groundwater detected 9.5'-10.2' bgs No Odor detected No Staining detected
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Date Start/Finish: 6/4/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450797.40 Easting: 13064185.89 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 862.45 Descriptions By: Megan Meckley	Well/Boring ID: SB-A2-PA65 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15		4	13.0-17.0	4.0	2.2 0.7 1.4 0.0			(14.0-17.0) CLAY, some silt, low plasticity; little very fine sand, trace granule, subrounded to subangular; no dilatancy; dry; stiff to very stiff; dark yellowish brown (10YR 4/4). NOTE: color change to dark gray brown (10YR 4/4) at 15.0' bgs.	 Borehole backfilled with Grout.
845								End of Boring at 17.0' bgs.	
20									
840									
25									
835									

	Remarks: BGS = Below ground surface Groundwater detected 9.5'-10.2' bgs No Odor detected No Staining detected
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Date Start/Finish: 6/4/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450783.54 Easting: 13064200.17 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 862.27 Descriptions By: Megan Meckley	Well/Boring ID: SB-A2-PB67 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
					0.0			(0.0-0.8) CONCRETE	
					0.0			(0.8-1.0) SAND, fine to medium, trace granules to small pebbles, subrounded; trace clay; poorly sorted; moist; brown (10YR 4/3).	
860	1	0.0-5.0	5.0		0.0			(1.0-3.0) CLAY, little silt, high plasticity; trace fine sand; no dilatancy; dry; soft; dark yellowish brown (10YR 4/6.)	
					0.0			NOTE: SAND, little fine to medium at 2.0' bgs.	
					0.0			(3.0-5.0) SAND, very fine to fine, little medium sand, trace granules to small pebbles, subrounded to subangular; little clay; dry; dark yellowish brown (10YR 3/6).	
					0.0			NOTE: trace clay to silt; trace medium sand at 4.0' bgs.	
5					0.0			(5.0-17.0) CLAY, little silt, high plasticity; trace granules, little very fine sand, sunrounded to subangular; rapid dilatancy; dry; medium stiff; dark yellowish brown (10YR 4/6).	
					0.0			NOTE: soft at 7.8' bgs.	
855	2	5.0-9.0	2.4		0.0			NOTE: hard at 8.0' bgs.	
					0.0			NOTE: very fine sand seam at 8.7' bgs.	
					0.0			NOTE: very small black sand spots; odor; from 9.0'-10.5' bgs.	
10					0.0			NOTE: trace medium to large pebbles, subrounded at 10.0' bgs.	
					2.5			NOTE: very fine sand seam at 10.5' bgs.	
	3	9.0-13.0	3.3		0.7			NOTE: no sand from 11.5'-12.0' bgs.	
850					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface No Groundwater detected Odor detected between 9.0'-10.5' bgs No Staining detected
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Date Start/Finish: 6/4/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450783.54 Easting: 13064200.17 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 862.27 Descriptions By: Megan Meckley	Well/Boring ID: SB-A2-PB67 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15		4	13.0-17.0	3.5	0.0 0.0 0.0 NA			NOTE: interbedded sand seams from 13.0'-17.0' bgs. NOTE: hard from 13.5'-14.0' bgs. NOTE: soft from 14.5'-15.5' bgs. NOTE: very fine sand layer; some silt; well sorted; dry; yellowish brown (10YR 5.6); from 15.5'-16.0' bgs.	 Borehole backfilled with Grout.
845								End of Boring at 17.0' bgs.	
20									
840									
25									
835									

	Remarks: BGS = Below ground surface No Groundwater detected Odor detected between 9.0'-10.5' bgs No Staining detected
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Date Start/Finish: 9.25.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450788.7535 Easting: 13064335.00 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 861.22 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A2-PB80 Client: RACER Location: RACER Lansing Plant 2
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860		1	0.0-5.0	2.9	NA			(0.0-2.1') CONCRETE.	
					NA				
					0.0			(2.1-5.0') SAND, fine, some small to large pebbles, angular; poorly sorted; moist; dark yellowish brown (10YR 4/6).	
					0.0				
					0.0				
5					0.0			(5.0-7.7') CLAY, little silt, high plasticity, very slow dilatancy; most; soft; dark yellowish brown (10YR 4/4).	
855		2	5.0-10.0	4.4	15.4			NOTE: Black to gray staining and odor observed from 7.0'-9.0' bgs.	
					671.0			(7.7-12.0') CLAY, high plasticity; trace fine sand, trace granules to small pebbles, subangular; dry; stiff; brown (10YR 4/3).	
					182.1				
10					81.0				
850		3	10.0-15.0	5.0	48.9			(12.0-12.7') SAND, very fine to medium, little coarse sand to granules, subangular; trace silt; poorly sorted; saturated; black (10YR 2/1).	
					28.9			(12.7-28.0') CLAY, high plasticity; trace fine sand, trace granules to small pebbles,	
					82.3				

	Remarks: bgs = below ground surface Groundwater encountered from 12.0'-12.7' bgs. Odor observed from 7.0'-9.0' bgs. Black to gray staining observed 7.0'-9.0' bgs.
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Date Start/Finish: 9.25.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450788.7535 Easting: 13064335.00 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 861.22 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A2-PB80 Client: RACER Location: RACER Lansing Plant 2
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	845	4	15.0-20.0	5.0	59.2 4.9 0.0 0.0 0.0 0.0 0.0			angular; moist; medium stiff; gray (10YR 5/1).	
20	840	5	20.0-25.0	5.0	0.0 0.0 0.0 0.0 0.0 0.0				
25	835	6	25.0-30.0	3.5	0.0 0.0 0.0 0.0			(28.0-30.0') SAND, very fine to fine; well sorted; moist; gray (10YR 5/1).	

	Remarks: bgs = below ground surface Groundwater encountered from 12.0'-12.7' bgs. Odor observed from 7.0'-9.0' bgs. Black to gray staining observed 7.0'-9.0' bgs.
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Date Start/Finish: 9.25.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450788.7535 Easting: 13064335.00 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 861.22 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A2-PB80 Client: RACER Location: RACER Lansing Plant 2
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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30				0.0	X			End of boring at 30.0' bgs.	
830									
35									
825									
40									
820									
45									

	Remarks: bgs = below ground surface Groundwater encountered from 12.0'-12.7' bgs. Odor observed from 7.0'-9.0' bgs. Black to gray staining observed 7.0'-9.0' bgs.
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Boring Log .

Project No.: 01-4172-0

Boring No.: SB-A2-PC52

Project Name: RACER Lansing Plants

Date Drilled: 11/08/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		CLS- (0.0 - 1.0) CLAY low plasticity; and fine sand, trace small pebbles, subrounded; moist; soft; dark brown (10YR 3/3)		-	0.0	
2				-	0.0	
		SP- (1.0 - 3.5) SAND fine; trace small pebbles, subrounded, well sorted; moist; brown (10YR 4/3)	PC-52 2.5' - 3.5'	-	0.0	
4				-	0.0	
		CL- (3.5 - 7.0) CLAY low plasticity; little fine sand, trace small pebbles, subrounded; moist; medium stiff; brown (10YR 4/3)		-	0.0	
6				-	0.0	
		CH- (7.0 - 12.0) CLAY high plasticity; trace fine sand, trace granules to small pebbles, subangular to angular; dry; stiff; brown (10YR 4/3)	PC-52 7.0' - 8.0'	-	0.0	
8				-	0.0	
				-	0.0	
10				-	0.0	
				-	0.0	
12		ML- (12.0 - 12.8) SILT moist; dense; dark yellowish brown (10YR 4/6)	PC-52 12.0' - 13.0'	-	0.0	
14				-	0.0	
		CH- (12.8 - 25.5) CLAY high plasticity; trace fine sand, trace granules to medium pebbles, subangular; dry; stiff; gray (10YR 5/1)		-	0.0	
16				-	0.0	
				-	0.0	
18			PC-52 18.0' - 19.0'	-	0.0	
				-	0.0	
20				-	0.0	
				-	0.0	
22				-	0.0	
			PC-52 23.0' - 24.0'	-	0.0	
24				-	0.0	
		SM- (25.5 - 27.5) SAND very fine; some silt, saturated; gray (10YR 5/1)	PC-52	-	0.0	
26				-	0.0	
				-	0.0	
28		ML- (27.5 - 29.2) SILT moist; slow dilatancy; gray (10YR 5/1)	25.0' - 29.0'	-	0.0	
				-	0.0	
30		CH- (29.2 - 30.0) CLAY high plasticity; trace find sand; trace small				

Completion Notes: End Of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 6/4/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450781.70 Easting: 13064171.99 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 863.96 Descriptions By: Megan Meckley	Well/Boring ID: SB-A2-PC64 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
		1	0.0-5.0	5.0	0.0			(0.0-1.0) SAND, very fine, trace granules, subangular; some silt; trace clay; dry; dark brown (10YR 3/3). NOTE: organics present.	
					0.0			(1.0-5.0) CLAY, little silt, high plsticity; little very fine sand; slow dilatancy; dry; soft; dark brown (10YR 3/3).	
					0.0				
860					0.0				
					0.0			NOTE: medium stiff; dark yellowish brown (10 YR 4/6) at 4.0' bgs.	
5					0.0				
		2	5.0-9.0	4.4	0.0			(5.0-16.5) CLAY, some silt, low plasticity; trace very fine sand, trace granules, subangular to subrounded; no dilatancy; dry; very stiff to hard; dark yellowish brown (10YR 4/6).	
					0.0				
					0.0				
855					0.0				
					0.0				
10					0.0			NOTE: no sand from 10.0'-11.0' bgs.	
		3	9.0-13.0	4.9	0.0				
					0.0			NOTE: no sand; trace silt; from 12.0'-16.0' bgs.	
					0.0			NOTE: color change to drak grayish brown (10YR 4/2) at 12.5' bgs.	
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface No Groundwater detected No Odor detected No Staining detected
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Date Start/Finish: 6/4/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450781.70 Easting: 13064171.99 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 863.96 Descriptions By: Megan Meckley	Well/Boring ID: SB-A2-PC64 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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850					0.0			NOTE: medium stiff to stiff from 14.0'-16.0' bgs.	
15		4	13.0-17.0	5.0	0.0			NOTE: little sand; little silt; dark yellowish brown (10YR 4/6) at 16.0' bgs.	
					0.0			(16.5-19.0) SAND, very fine to fine; trace silt; well sorted; dry; yellowish brown (10YR 5/6).	
					0.0			NOTE: wet at 17.0' bgs.	
845		5	17.0-21.0	4.0	0.0			NOTE: little silt at 18.0' bgs.	
20					0.0			(19.0-21.0) CLAY, little silt, low plasticity; little very fine sand, trace granules, subrounded to subangular; no plasticity; dry; stiff to very stiff; dark yellowish brown (10YR 4/6).	
					0.0			NOTE: small dark grayish brown (10YR 4/2) area at 19.0' bgs.	
					0.0			NOTE: some very fine sand at 20.0' bgs.	
								End of Boring at 21.0' bgs.	
840									
25									
835									

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface No Groundwater detected No Odor detected No Staining detected
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Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A2-PC76

Project Name: RACER Lansing Plants

Date Drilled: 9/13/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE		No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts PID (ppm)	
0		Ground Surface			
		- (0.0 - 0.3) ASPHALT		-	NM
		- (0.3 - 0.9) CONCRETE		-	0.0
2		SP- (0.9 - 2.5) SAND, fine; trace coarse sand to granules,subangular; well sorted; moist;dark yellowish brown (10YR 4/6)	PC-76 2.0' - 3.0'	-	0.0
4				-	0.0
		SM- (2.5 - 8.5) SAND, very fine;and silt, slow dilatancy; well sorted; moist;brown (10YR 4/3)		-	0.0
6				-	0.0
8				-	0.0
		CH- (8.5 - 9.5) CLAY, medium plasticity; trace fine sand, trace small pebbles; subangular; dry; stiff; brown (10YR 4/3)	PC-76 9.5' - 10.0'	-	430.3
10			PC-76 10.0' - 11.0'	-	742.0
		SP- (9.5 - 10.0) SAND, fine; trace small pebbles subangular; well sorted; saturated; grayish brown (10YR 4/2)		-	266.2
12		NOTE: strong odor		-	68.2
		CLS- (10.0 - 11.5) CLAY, low plasticity; some fine sand, trace small pebbles, subangular; moist; medium stiff; brown (10YR 4/3)		-	40.3
14				-	64.2
		CH- (11.5 - 27.5) CLAY, high plasticity; trace sand; fine; trace granules to small pebbles;angular; dry; stiff; gray; (10YR 5/1)		-	51.3
16				-	51.3
18			PC-76 17.0' - 18.0'	-	61.5
				-	7.2
20				-	36.3
		NOTE: sand increases to some at 26.0' bgs		-	19.3
22				-	15.0
			PC-76 23.0' - 24.0'	-	8.0
24				-	6.0
				-	3.3
26				-	1.7
				-	0.7
28		SP- (27.5 - 30.0) SAND, very fine; well sorted; moist; dense; gray (10YR 5/1)		-	3.1
30			PC-76 29.0' - 30.0'	-	0.0
					0.0
32					

Completion Notes: End Of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 6/4/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450769.34 Easting: 13064185.95 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 863.32 Descriptions By: Megan Meckley	Well/Boring ID: SB-A2-PD65 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
		1	0.0-5.0	5.0	NA			(0.0-1.0) CONCRETE	
					0.0			(1.0-2.0) SAND, fine to medium, trace small to large pebbles, subrounded to subangular; trace clay; poorly sorted; dry; brown (10YR 4/3).	
860					0.0			(2.0-11.0) CLAY, little silt, high plasticity; little fine sand; no dilatancy; dry; dark yellowish brown.	
					0.0			NOTE: some silt; color change to dark brown at 4.0' bgs.	
5					0.0			NOTE: little silt; trace very fine sand, trace granules, subangular; dark yellowish brown at 5.5' bgs.	
		2	5.0-9.0	3.0	0.0				
					0.0			NOTE: very dark brown (10YR 2/2) at 8.5' bgs.	
855					0.0			NOTE: very soft; moist; rapid dilatancy; some silt; from 9.5'-11.0' bgs.	
					0.0				
10					0.0			(11.0-13.0) CLAY, low plasticity; no dilatancy; dry; very stiff to hard; very dark brown (10YR 2/2).	
		3	9.0-13.0	2.6	0.0				
					0.0				
					0.0				

	Remarks: BGS = Below ground surface Groundwater detected between 15.1'-16.0' bgs No Odor detected No Staining detected
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Date Start/Finish: 6/4/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450769.34 Easting: 13064185.95 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 863.32 Descriptions By: Megan Meckley	Well/Boring ID: SB-A2-PD65 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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850					0.0			(13.0-16.0) SAND, very fine to fine; well sorted; dry; yellowish brown (10YR 5/4).	
15		4	13.0-17.0	3.5	0.0			NOTE: wet from 15.1'-16.0' bgs.	
					0.6				
					0.0			(16.0-17.0) CLAY, little silt, low to medium plasticity; little very coarse sand to granules, subangular to subrounded; no to slow dilatancy; dry; very stiff to hard; dark yellowish brown (10YR 4/4).	
								End of Boring at 17.0' bgs.	
845									
20									
840									
25									
835									



Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 15.1'-16.0' bgs No Odor detected No Staining detected
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Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A2-PF68

Project Name: RACER Lansing Plants

Date Drilled: 9/5/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0.0 - 0.9		CONCRETE		-	0.0	
0.9 - 3.0		CH- (0.9 - 3.0) CLAY, high plasticity; little fine sand, trace small to medium pebbles, subangular; moist; soft; dark brown (10YR 3/3)		-	0.8	
3.0 - 7.5		SP- (3.0 - 7.5) SAND, fine; little silt; well sorted; moist; yellowish brown (10YR 5/4)		-	1.2	
7.5 - 8.0		CRUSHED ROCK		-	2.4	
8.0 - 12.8		CL- (8.0 - 12.8) CLAY, medium plasticity; little fine sand, trace granules to small pebbles, subangular; moist; medium stiff; brown (10YR 4/3)		-	1.4	
12.8 - 13.5		SP- (12.8 - 13.5) SAND, very fine to fine; well sorted; moist; yellow brown (10YR 5/4)		-	0.0	
13.5 - 15.0		CH- (13.5 - 15.0) CLAY, high plasticity ; trace granules, subangular; dry; stiff; brown (10YR 4/3)		-	0.0	
15.0 - 16.2		SP- (15.0 - 16.2) SAND, very fine to fine; well sorted moist; yellowish brown (10YR 5/4)		-	0.0	
16.2 - 27.5		CL- (16.2 - 27.5) CLAY, medium plasticity; little fine sand, trace granules to small pebbles, subangular; moist; stiff; brown (10YR 4/3)		-	0.0	
27.5 - 30.0		CLS- (27.5 - 30.0) CLAY, low plasticity; some very fine sand, trace granules to small pebbles, subangular; moist; stiff; dark gray (10YR 4/1)		-	0.0	
30.0 - 32.0				-	0.0	
32.0 - 34.0				-	0.0	
34.0 - 36.0				-	0.0	
36.0 - 38.0				-	0.0	
38.0 - 40.0				-	0.0	
40.0 - 42.0				-	0.0	
42.0 - 44.0				-	0.0	
44.0 - 46.0				-	0.0	
46.0 - 48.0				-	0.0	
48.0 - 50.0				-	0.0	
50.0 - 52.0				-	0.0	
52.0 - 54.0				-	0.0	
54.0 - 56.0				-	0.0	
56.0 - 58.0				-	0.0	
58.0 - 60.0				-	0.0	

Completion Notes: End of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 9.25.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450747.0868 Easting: 13064334.91 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 862.49 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A2-PF80 Client: RACER Location: RACER Lansing Plant 2
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0								(0.0-0.9') CONCRETE.	
860	1	0.0-5.0	4.1	0.0	NA			(0.9-7.0') CLAY, low plasticity; little fine sand, trace granules to small pebbles, subangular; dry; stiff; brown (10YR 4/3).	
5				0.0					
855	2	5.0-10.0	5.0	0.0				(7.0-11.5') CLAY, high plasticity; trace fine sand, trace small pebbles, subangular; dry; stiff; dark gray (10YR 4/1).	
10				0.0					
850	3	10.0-15.0	4.2	2.8				(11.5-12.5') SAND, very fine to medium, little coarse sand to granules; poorly sorted; saturated; black (10YR 2/1).	
				25.8				(12.5-30.0') CLAY, high plasticity; trace fine sand, trace granules to small pebbles,	
				18.0					

	Remarks: bgs = below ground surface Groundwater encountered from 11.5'-12.5' bgs. No odor or staining observed.
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Date Start/Finish: 9.25.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450747.0868 Easting: 13064334.91 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 862.49 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A2-PF80 Client: RACER Location: RACER Lansing Plant 2
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15					4.2			angular; dry; stiff; gray (10YR 5/1).	
					0.0				
					0.0				
845		4	15.0-20.0	4.8	0.0				
					0.0				
					0.0				
					0.0				
20					0.0				
					0.0			NOTE: Seam of fine sand; moist; from 20.0-20.5' bgs.	
					0.0				
840		5	20.0-25.0	4.8	0.0				
					0.0				
					0.0				
					0.0				
25					0.0				
					0.0				
835		6	25.0-30.0	5.0	0.0				
					0.0				
					0.0				

	Remarks: bgs = below ground surface Groundwater encountered from 11.5'-12.5' bgs. No odor or staining observed.
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Date Start/Finish: 9.25.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450747.0868 Easting: 13064334.91 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 862.49 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A2-PF80 Client: RACER Location: RACER Lansing Plant 2
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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30					0.0			End of boring at 30.0' bgs.	
35									
40									
45									

	Remarks: bgs = below ground surface Groundwater encountered from 11.5'-12.5' bgs. No odor or staining observed.
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Boring Log .

Project No.: 01-4172-0

Boring No.: SB-A2-PH76

Project Name: RACER Lansing Plants

Date Drilled: 11/08/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0 - 0.3) TOPSOIL		-	0.0	
2		SP- (0.3 - 2.5) SAND fine; trace small pebbles, subrounded; well sorted; moist; brown (10YR 4/3)	PH-76 1.5' - 2.5'	-	0.0	
4		CL- (2.5 - 4.0) CLAY low plasticity; little fine sand, trace granules, subrounded; dry ; stiff; brown (10YR 4/3)		-	0.0	
6		CH- (4.0 - 10.0) CLAY high plasticity; trace fine sand, trace granules to small pebbles, subangular; dry; stiff; brown (10YR 4/3)		-	0.0	
8			PH-76 7.0' - 8.0'	-	0.0	
10				-	0.0	
12		SP- (10.0 - 12.2) SAND very fine to fine; well sorted; saturated; dark gray (10YR 4/1)	PH-76	-	0.0	
14		(12.2 - 30.0) CLAY high plasticity; trace fine sand, trace granules to medium pebbles, subangular to angular; dry; stiff; gray (10YR 5/1)		-	0.0	
16		Note: silt seams at 25.5' - 25.6'	10.0' - 14.0'	-	0.0	
18			PH-76 14.0' - 15.0'	-	0.0	
20				-	0.0	
22				-	0.0	
24				-	0.0	
26			PH-76 19.0' - 20.0'	-	0.0	
28				-	0.0	
30				-	0.0	
			PH-76 25.0' - 26.0'	-	0.0	
				-	0.0	
				-	0.0	
			PH-76 29.0' - 30.0'	-	0.0	

Completion Notes: End Of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4172-0

Boring No.: SB-A2-PM54

Project Name: RACER Lansing Plants

Date Drilled: 11/30/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE		No Well Installed	
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts		PID (ppm)
0		Ground Surface				
		(0.0 - 0.3) TOPSOIL / GRASS		-	0.0	
		SP- (0.3 - 13.5) SAND		-	0.0	
		fine; trace small pebbles, subrounded; well sorted; moist; dark yellowish brown (10YR 4/6)		-	0.0	
2				-	0.0	
				-	0.0	
4				-	0.0	
				-	0.0	
6				-	0.0	
				-	0.0	
8				-	0.0	
				-	0.0	
10				-	0.0	
				-	0.0	
12			-	0.0		
			PM-54	-	0.0	
			12.5' - 13.5'	-	0.0	
14		CH- (13.5 - 16.0) CLAY		-	0.0	
		high plasticity; trace fine sand, trace granules to small pebbles, angular; dry; stiff; dark gray (10YR 4/1)		-	0.0	
			15.0' - 15.5'	-	0.0	
16						

Completion Notes: End Of Boring at 16' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4172-0

Boring No.: SB-A2-PQ53

Project Name: RACER Lansing Plants

Date Drilled: 11/30/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0 - 0.4) TOPSOIL / GRASS		-	0.0	
		CL- (0.4 - 4.5) CLAY		-	0.0	
2		low plasticity; little fine sand, trace granules to medium pebbles, subrounded; moist; medium stiff; brown (10YR 4/3)		-	0.0	
				-	0.0	
4				-	0.0	
				-	0.0	
		SC- (4.5 - 16.0) SAND		-	0.0	
6		fine; and clay, trace granules to small pebbles, subrounded; trace brick; moist; brown (10YR 4/3)		-	0.0	
		Note: slight greenish discoloration @ 7.0' - 8.0'		-	0.0	
8			PQ-53 7.0' - 8.0'	-	0.0	
				-	0.0	
10				-	0.0	
				-	0.0	
12				-	0.0	
				-	0.0	
14				-	0.0	
				-	0.0	
16			15.0' - 15.5'	-	0.0	

Completion Notes: End Of Boring at 16' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4172-0

Boring No.: SB-A4-MX47

Project Name: RACER Lansing Plants

Date Drilled: 11/07/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE		No Well Installed	
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts PID (ppm)		
0		Ground Surface	MX-47 1.0' - 2.0'			
		(0.0 - 0.3) ASPHALT		-		0.0
2		CLS- (0.3 - 2.0) CLAY low plasticity; and sand, fine; small to large pebbles, subangular; medium stiff, dry, very dark brown (10YR 2/2)		0.0		
4		CL- (2.0 - 5.5) CLAY low plasticity; little fine sand, trace small pebbles, subangular; dry; medium stiff; dark brown (10YR 3/3)		0.0		
6		SWG- (5.50 - 6.5) SAND fine to coarse; angular; some granules to small pebbles, angular to subrounded; saturated; black (10YR 2/1)	MX-47	-		0.0
			-	0.0		
8		Note: contains organic and concrete debris		-		0.0
		CH- (6.50 - 18.0) CLAY high plasticity; moist; soft; gray (10YR 5/1)	5.0' - 9.0"	-		0.0
10		Note: soil samples at 7.0' - 8.0'		-		0.0
12				-		0.0
14				-		0.0
16				-		0.0
18				-		0.0
20		CH- (18.0 - 20.0) CLAY high plasticity; trace fine sand, trace granules to small pebbles, subangular; dry; medium, stiff; gray (10YR 5/1)		-		0.0
				-		0.0

Completion Notes: End Of Boring at 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 451349.51 Easting: 13064115.76 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 860.01 Descriptions By: M. Hicks	Well/Boring ID: SB-A4-MX58 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	860							(0.0-1.0) CONCRETE.	
		1	1.0-5.0	5.0	0.0			(1.0-6.0) SAND, very fine to fine; trace clay; well sorted; dry yellowish brown (10YR 5/6).	
5	855				0.0			(6.0-6.3) CLAY, little silt, medium plasticity, some very fine sand; slow dilatancy; dry; yellowish brown (10YR 5/6).	
		2	5.0-9.0	3.7	0.0			(6.3-6.8) SAND, very fine to fine; trace clay; well sorted; dry yellowish brown (10YR 5/6).	
					0.0			(6.8-9.0) CLAY, some silt, no plasticity; little very fine sand; slow dilatancy; dry; very stiff to hard; gray (10YR 5/1) NOTE: dark grayish brown (10YR 4/6); wet at 7.0' bgs. NOTE: very fine sand seam; trace small pebbles, subround; dry; black (10YR 2/1) at 8.0' bgs.	
					0.0			(9.0-9.5) SAND, fine to very coarse, some granule, subround to subangular; wet; black (10YR 2/1) with brown (10YR 5/3).	
10	850				0.0			(9.5-10.8) CLAY, trace silt; gray (10YR 5/1) with greenish gray (GLE1 5/5) with black (10YR 2/1).	
		3	9.0-13.0	3.6	0.0			NOTE: little granule to small pebble, subround to subangular; moist at 10.5' bgs.	
					0.0			(10.8-11.5) SILT, little clay, low to medium plasticity; little very fine sand; rapid dilatancy; dry; soft; black (10YR 2/1).	
					0.0			(11.5-17.0) CLAY, trace silt, high plasticity; very soft to soft; grayish brown (10YR 5/2).	
					NA				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater encountered at 6.3' and 8.0' bgs. No Odor or Staining detected Groundwater sample collected from 8.0-12.0' bgs
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Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 451349.51 Easting: 13064115.76 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 860.01 Descriptions By: M. Hicks	Well/Boring ID: SB-A4-MX58 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	845	4	13.0-17.0	3.3	NA			NOTE: yellowish brown (10YR 5/6) with gray (10YR 5/1) at 14.0' bgs. NOTE: trace silt; gray (10YR 5/1) at 15.0' bgs.	
20	840				NA				
25	835				NA				
30								End of boring at 17.0' bgs.	

	Remarks: BGS = Below ground surface Groundwater encountered at 6.3' and 8.0' bgs. No Odor or Staining detected Groundwater sample collected from 8.0-12.0' bgs
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Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 451350.40 Easting: 13064147.22 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 859.97 Descriptions By: M. Meckley	Well/Boring ID: SB-A4-MX61 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	860							(0.0-1.0) CONCRETE.	
		1	1.0-5.0	5.0	NA			(1.0-6.5) SAND, very fine to fine, trace granule, subround; trace clay; poorly sorted; dry; yellowish brown (10YR 5/4). NOTE: well sorted at 2.0' bgs.	
					0.6				
					1.3				
					0.3			NOTE: little clay at 4.0' bgs.	
5	855				1.5				
		2	5.0-9.0	2.5	0.0			NOTE: dark grayish brown (10YR 4/2) at 6.0' bgs.	
					0.0			(6.5-10) CLAY, trace silt, high plasticity; trace very coarse sand, subangular to subround; slow dilatancy; soft to medium stiff; very dark gray with black (10YR 2/1). NOTE: little silt; trace very fine sand; dark yellowish brown (10YR 3/6) at 7.5' bgs.	
					0.0			NOTE: little very fine to medium sand, trace small pebbles, subangular; moist; black (10YR 2/1) at 8.3' bgs.	
					0.0			NOTE: some silt; little very fine sand; dry; black (10YR 2/1); slight odor at 9.2' bgs.	
10	850	3	9.0-13.0	3.5	0.0			(10.0-12.0) SILT, little clay, low to non plastic; trace very fine sand; rapid dilatancy; dry; soft to medium stiff; dark gray (10YR 3/1). NOTE: trace silt; stiff; gray (10YR 5/1) bluish color at 10.0' bgs.	
					0.1			NOTE: little very fine sand; dry; black (10YR 2/1); slight odor at 10.6' bgs.	
					0.0			(12.0-17.0) CLAY, high plasticity; moist; soft; gray (10YR 5/1) with yellowish brown (10YR 5/4).	
15	845	4	13.0-17.0	3.0	0.0				
					0.0				
					0.0			NOTE: only gray (10YR 5/1); very soft at 16.0' bgs.	
					0.0				
								End of boring at 17.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater not encountered Slight odor observed at 8.3' and 9.2' bgs
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Date Start/Finish: 5/18/12 Drilling Company: Stock Driller's Name: Dean G Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451336.70 Easting: 13064132.18 Casing Elevation: NA Borehole Depth: 26.0' bgs Surface Elevation: 860.05 Descriptions By: Colleen Barton	Well/Boring ID: SB-A4-MY60 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	860								
		1	0.0-5.0	5.0	NA			(0.0-0.75) CONCRETE	
					0.0			(0.75-8.3) SAND, fine to medium; trace clay; well sorted; dry; brown.	
					0.0				
					0.0				
					0.0				
5	855				0.0				
		2	5.0-10.0	2.8	0.0				
					0.0				
					0.0				
					0.0				
					NA			NOTE: color change to grayish black at 8.3' bgs.	
					NA			(8.3-9.1) CLAY, low plasticity; trace granules to small pebbles, subrounded; dry; stiff; dark grayish brown.	
					NA			(9.1-10.0) CLAY, high plasticity; some coarse sand to large pebbles, subrounded; dry; medium stiff; black (10YR 2/1) with spots of red and green.	
10	850				0.0			(10.0-10.5) CLAY, high plasticity; dry; soft; black.	
		3	10.0-15.0	5.0	0.0			(10.5-19.0) CLAY, high plasticity; moist; soft; grayish brown.	
					0.0				
					0.0				

	Remarks: BGS = Below ground surface Groundwater detected between 18.0'-26.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/18/12 Drilling Company: Stock Driller's Name: Dean G Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451336.70 Easting: 13064132.18 Casing Elevation: NA Borehole Depth: 26.0' bgs Surface Elevation: 860.05 Descriptions By: Colleen Barton	Well/Boring ID: SB-A4-MY60 Client: RACER Trust Location: Lansing, MI
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Station	Depth (ft)	Soil Type	Moisture (%)	Color	Notes
15	845		0.0		
			0.0		
	4	15.0-19.0	3.2		
			0.0		
20	840		0.0		
			0.0		
	5	19.0-24.0	4.0		
			0.0		
			0.0		
			0.0		
25	835	6	24.0-26.0	2.0	
			0.0		
End of boring at 26.0' bgs					

	Remarks: BGS = Below ground surface Groundwater detected between 18.0'-26.0' bgs No Odor or Staining detected
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Date Start/Finish: 6/6/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451571.31 Easting: 13064951.47 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.36 Descriptions By: M. Meckley	Well/Boring ID: SB-A5.1-MB142 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860		1	0.0-5.0	5.0	1.0	X		(0.0-5.0) SILT, trace clay, medium to high plasticity; some very fine sand; rapid dilatancy; dry; soft; dark brown (10YR 2/2) NOTE: organic matter present NOTE: some very fine to fine sand, little granule, subangular at 1.0' bgs. NOTE: some clay; little medium sand at 4.0' bgs.	
5		2	5.0-9.0	3.2	8.6	X		(5.0-7.5) CLAY, some silt, high plasticity; some very fine to fine sand, trace very coarse sand to granule, subrounded to subangular; rapid dilatancy; slightly moist; soft; dark brown (10YR 2/2) with dark yellowish brown (10YR 4/6) and little black (10YR 2/1). NOTE: trace small pebble, subangular at 6.0' bgs. NOTE: fine to medium sand seam; yellow brown (10YR 5/6); wet at 7.0' bgs and 7.3' bgs.	
					0.0	X		(7.5-13) CLAY, little silt, low plasticity; little very fine sand; no dilatancy; dry; stiff to very stiff; dark yellowish brown (10YR 4/6) NOTE: brown (10YR 4/3) at 9.5' bgs. NOTE: dark grayish brown (10YR 4/2) at 10.5' bgs. NOTE: interbedded fine to medium sand seam; dry; gray (10YR 5/1) at 11.2' bgs.	
10		3	9.0-13.0	3.9	0.0				
850					0.0				
		3	13.0-17.0	4.1	0.0			(13-14.2) SILT, some clay, high plasticity; little very fine sand; rapid dilatancy; moist; soft to medium stiff; dark grayish brown (10YR, 4/2). (14.2-17) CLAY, some silt, medium plasticity; little very fine sand, trace granule, subrounded to subangular; slow to no dilatancy; dry; medium stiff; dark grayish brown (10YR 3/2).	
15					0.0				
845					0.0	X			
								End of boring, at 17.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater not encountered No odor or staining observed
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Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 451557.20 Easting: 13064761.61 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.05 Descriptions By: M. Hicks	Well/Boring ID: SB-A5.1-MC123 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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								NOTE: boring in grass.	
0								(0.0-4.0) SILT, low plasticity; little very fine sand; rapid dilatancy; moist; dark brown (10YR 3/3).	
860		1	1.0-5.0	5.0	0.9			(4.0-9.5) SAND, very fine, trace granule, subround to subangular; some silt; trace clay; dry; dark brown (10YR 3/3).	
					1.5				
					3.8			NOTE: little granule to small pebble, subangular at 2.0' bgs.	
					1.1				
					2.4				
5									
					6.3				
855		2	5.0-9.0	2.0	13.1				
					10.6				
					0.3				
					0.1			(9.5-13.5) CLAY, some silt, high plasticity; no dilatancy; moist; stiff; gray (10YR 5/1) mottled brown (10YR 5/3).	
10					0.0				
850		3	9.0-13.0	NA	0.0				
					0.0				
					0.0			(13.5-14.05) SAND, very fine to medium, subangular to subrounded; some silt; wet; brown (10YR 5/3).	
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater encountered at 13.5 No Odor or Staining detected Groundwater sample collected from 12.0-16.0' bgs
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Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 451557.20 Easting: 13064761.61 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.05 Descriptions By: M. Hicks	Well/Boring ID: SB-A5.1-MC123 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	4	13.0-17.0	NA	0.0		(14.05-14.45) SILT, non plastic; rapid dilatancy; and SAND, very fine to medium; wet; brown (10YR 5/3).
845				0.0		(14.45-15.5) SAND, fine to coarse, subangular to subround; and GRAVEL, granule to medium pebble, subangular to subround; little silt; poorly sorted; wet; brown (10YR 5/3). NOTE: trace pebble at 15.2' bgs.
				0.0		(15.5-17.0) CLAY, some silt, high plasticity; little very fine to fine sand, trace granule to small pebble; no dilatancy; moist; medium stiff; dark grayish brown (10YR 4/2). NOTE: Glacial TILL.
						End of boring, 17.0' bgs.
20						
840						
25						
835						

	Remarks: BGS = Below ground surface Groundwater encountered at 13.5 No Odor or Staining detected Groundwater sample collected from 12.0-16.0' bgs
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Date Start/Finish: 6/6/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451537.53 Easting: 13064915.47 Casing Elevation: NA Borehole Depth: 17.0 bgs' Surface Elevation: 861.21 Descriptions By: M. Meckley	Well/Boring ID: SB-A5.1-ME138 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0								(0.0-1.0) CONCRETE	
860		1	0.0-5.0	5.0	NA	X		(1.0-4.0) SAND, fine to medium, trace very coarse sand to granule, subrounded to subangular; trace silt; poorly sorted; dry; dark yellowish brown (10YR 4/6). NOTE: little granule to small pebble, subrounded to subangular at 2.0' bgs. NOTE: little clay at 3.0' bgs.	
								(4.0-11.5) CLAY, some silt, high plasticity; trace very fine to fine sand; rapid dilatancy; moist; very soft; dark brown (10YR 3/2). NOTE: medium stiff; dry; dark yellowish brown (10YR 3/2) at 5.0' bgs. NOTE: fine to coarse sand seams, subrounded from 6.0'-6.5' bgs. NOTE: little silt, medium to low plasticity; stiff; dry at 7.0' bgs. NOTE: dark gray (10YR 4/1) at 9.0' bgs.	
5		2	5.0-9.0	2.5		X		(11.5-13.5) SILT, trace clay, high plasticity; some very fine sand, trace granule, subrounded to subangular; rapid dilatancy; moist; medium stiff; dark gray (10YR 4/1).	
								(13.5-17) CLAY, little silt, medium plasticity; trace very fine sand, trace granule, subrounded to subangular; slow dilatancy; dry; medium stiff to stiff; dark grayish brown (10YR 4/1).	
850		3	9.0-13.0	3.6					
15		3	13.0-17.0	3.0		X			
845									
								End of boring at 17.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected
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Date Start/Finish: 6/6/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451538.02 Easting: 13064985.95 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.11 Descriptions By: M. Meckley	Well/Boring ID: SB-A5.1-ME145 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0								(0.0-1.0) CONCRETE	
860		1	0.0-5.0	5.0	NA			(1.0-5.0) SAND, fine to medium, some coarse sand, little granule to medium pebble, subangular to subrounded; trace clay; moist; dark yellowish brown (10YR 4/6). NOTE: no fine sand; little coarse to very coarse sand at 2.0' bgs.	
5		2	5.0-9.0	4				(5.0-6.0) CLAY, little silt, high to medium plasticity; trace very fine sand; no dilatancy; dry; stiff; very dark grayish brown (10YR 3/2) to dark greenish gray (5Y 1.4/10Y). NOTE: odor at 5.0' bgs. (6.0-7.2) SILT, little clay, high plasticity; little very fine sand; rapid dilatancy; dry; soft to medium stiff; dark greenish gray (GLEYS 4/10Y). NOTE: mottled with dark yellowish brown (10YR 4/6) from 5.0'-7.2' bgs. NOTE: sand seam; some clay; wet at 6.5' bgs. (7.2-17.0) CLAY, some silt, low plasticity; trace very fine sand, trace granule, subangular to subrounded; no dilatancy; dry; stiff to very stiff; dark yellowish brown (10YR 4/6). NOTE: small black smudges from 6.0'-7.0' bgs. NOTE: little silt at 7.5' bgs. NOTE: very stiff at 9.0' bgs. NOTE: very small lenses of very fine sand; olive (5Y 5/6) at 9.0' bgs and 9.5' bgs. NOTE: dark yellowish brown (10YR 4/6) from 10.0'-10.2' bgs. NOTE: reddish gray (5YR 5/2) at 10.5' bgs.	
10		3	9.0-13.0	5					
850					NA				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater not encountered Odor observed at 5.0' bgs
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Date Start/Finish: 6/6/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451538.02 Easting: 13064985.95 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.11 Descriptions By: M. Meckley	Well/Boring ID: SB-A5.1-ME145 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	845	3	13.0-17.0	4	NA			(15.0-17.0) CLAY, little silt, medium plasticity; trace very fine sand, trace granules to small pebbles, subangular to subround; dry; medium stiff; reddish gray (5YR 5/2).	
					NA				
					NA				
								End of boring 17.0' bgs	
20	840								
25	835								
30									

	Remarks: BGS = Below ground surface Groundwater not encountered Odor observed at 5.0' bgs
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Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 451520.51 Easting: 13064761.22 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 861.43 Descriptions By: M. Meckley	Well/Boring ID: SB-A5.1-MG123 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860		1	1.0-5.0	5.0	0.2			(0.0-0.3) GRAVEL. (0.3-5.0) SAND, fine, trace medium sand, trace granule, subround; well sorted; dry; dark yellowish brown (10YR 4/6).	
					4.3				
					9.2			NOTE: moist at 3.0' bgs.	
					1.6			NOTE: trace clay; little granule to small pebble, subround to subangular; poorly sorted at 4.0' bgs.	
5					3.6				
855		2	5.0-9.0	2.2	0.0			(5.0-9.0) SAND, fine to medium, little very coarse sand, trace granule to medium pebble, subround to subangular; moist; dark yellowish brown (10YR 3/6).	
					0.0				
					0.0				
10					0.0			(9.0-11.8) CLAY, trace silt, high plasticity, no dilatancy; dry; soft to medium stiff; gray (10YR 5/1) and yellowish brown (10YR 5/6).	
850		3	9.0-13.0	3.3	0.0			NOTE: soft at 11.0' bgs.	
					0.0			(11.8-16.7) SAND, fine; trace clay to silt; well sorted; wet; brown (10YR 5/3).	
					0.0			NOTE: clay lens, trace silt, high plasticity, no dilatancy; soft to medium stiff; dry; gray (10YR 5/1) and yellowish brown (10YR 5/6) at 12.6' bgs.	
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater encountered at 11.8' bgs No odor or staining observed Groundwater sample collected from 12.0-16.0' bgs
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Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 451520.51 Easting: 13064761.22 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 861.43 Descriptions By: M. Meckley	Well/Boring ID: SB-A5.1-MG123 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15		4	13.0-17.0	3.7	0.0			NOTE: sand; trace silt; wet at 15.0' bgs.	
845					0.0				
					0.0			(16.7-21.0) CLAY, some silt, high plasticity; trace fine sand; rapid dilatancy; dry; medium stiff; dark gray (10YR 4/1).	
		5	17.0-21.0	5.0	0.0				
20					0.0				
					0.0				
840								End of boring at 21.0' bgs	
25									
835									
30									

	Remarks: BGS = Below ground surface Groundwater encountered at 11.8' bgs No odor or staining observed Groundwater sample collected from 12.0-16.0' bgs
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Date Start/Finish: 6/6/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451503.91 Easting: 13064951.08 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.32 Descriptions By: M. Meckley	Well/Boring ID: SB-A5.1-MH142 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0								(0.0-1.0) CONCRETE	
860		1	0.0-5.0	5.0	NA			(1.0-4.0) SAND, very fine to fine, trace granule, subangular to subrounded; little clay; poorly sorted; dry; dark yellowish brown (10YR 4/4). NOTE: trace silt at 3.0' bgs.	
5								(4.0-5.5) CLAY, some silt, high plasticity; some very fine sand, trace granule, subrounded to subangular; rapid dilatancy; soft to medium stiff; very dark grayish brown (10YR 3/2).	
855		2	5.0-9.0	3.5				(5.5-6.0) SAND, fine to medium, little very fine sand, trace granule, subrounded to subangular; little silt; poorly sorted; wet; brown (10YR 3/2). (6.0-10.0) CLAY, little silt, medium plasticity, slow dilatancy; medium stiff to stiff; dry; yellowish brown (10YR 5/6). NOTE: trace granule to small pebble, subrounded to subangular; stiff to very stiff; brown (10YR 4/3) at 6.5' bgs. NOTE: pockets of dark yellowish brown (10YR 3/6) at 8.0' bgs and 8.6' bgs. NOTE: some silt at 9.0' bgs.	
10								(10.0-11.0) SILT, little clay, high plasticity; trace fine sand; rapid dilatancy; moist; soft to medium stiff; dark gray (10YR 4/1).	
850		3	9.0-13.0	4.3				(11.0-17.0) CLAY, little silt, medium to low plasticity; trace fine sand, trace granule, subrounded to subangular; slow to no dilatancy; dry; medium stiff to stiff; dark gray (10YR 4/1). NOTE: some very fine sand; high plasticity; rapid dilatancy; medium stiff from 13.0'-15.5' bgs. NOTE: moist from 13.0'-15.0' bgs.	
15								NOTE: low plasticity, no to slow dilatancy; little very fine sand; medium stiff to stiff from 15.5'-17.0' bgs.	
845		3	13.0-17.0	4.8					
								End of boring at 17.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater not encountered No odor or staining observed
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Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 451500.56 Easting: 13064727.08 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.35 Descriptions By: M. Hicks	Well/Boring ID: SB-A5.1-MI119 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860		1	1.0-5.0	5.0	NA			(0.0-0.8) CONCRETE	
					0.3			(0.8-5.3) SAND, very fine to fine, trace coarse sand to small pebbles, subangular to subround; trace silt; moist; brown (10YR 5/3). NOTE: increasing silt with depth.	
					0.4				
					0.4				
5					0.8				
855		2	5.0-9.0	4.0	0.0			(5.3-8.0) CLAY, some silt, high plasticity; little very fine to fine sand, trace granule to medium pebble, subangular to subround; no dilatancy; moist; medium stiff; brown (10YR 5/3).	
					0.0				
					0.0			(8.0-12.65) SAND, very fine to fine, little medium sand to small pebble; some silt; poorly sorted; wet; brown (10YR 5/3).	
10					0.0				
850		3	9.0-13.0	4.0	0.0				
					0.0				
					0.0			(12.65-17) CLAY, some silt, high plasticity; little very fine to fine sand, trace granule to small pebble, subangular to subround; no dilatancy; moist; medium stiff; dark grayish brown (10YR 4/2).	
15		4	13.0-17.0	4.0	0.0				
845					0.0				
					0.0			End of boring at 17.0' bgs.	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater encountered at 8.0' bgs No Odor or Staining detected Groundwater sample collected from 9.0-13.0' bgs
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Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 451500.59 Easting: 13064780.37 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.34 Descriptions By: M. Meckley	Well/Boring ID: SB-A5.1-MI125 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0								(0.0-1.0) CONCRETE.	
860		1	0.0-5.0	5.0	NA	X		(1.0-5.0) SAND, very fine, little very coarse sand, trace medium to large pebble, subround to subangular; trace clay; poorly sorted; moist; brown (10YR 5/3). NOTE: trace very coarse sand at 2.0' bgs. NOTE: trace silt at 3.0' bgs. NOTE: moist to wet at 4.0' bgs.	
5		2	5.0-9.0	4.0				(5.0-8.6) SAND, very fine to fine, some medium sand, trace granule, subround to subangular; trace clay; poorly sorted; moist; dark yellowish brown (10YR 4/6). NOTE: interbedded fine to medium sand layers; silt, and clay; wet from 6.0-6.8' bgs.	
855								(8.6-11.8) SAND, fine to medium; well sorted; wet; dark yellowish brown (10YR 4/6).	
10		3	9.0-13.0	3.0		X		(11.8-15.0) CLAY, trace silt, high plasticity, rapid dilatancy; soft to very soft; yellowish brown (10YR 5/4) with gray (10YR 5/1). NOTE: little silt; trace granule, subround to subangular; wet at 13.0' bgs. NOTE: little very fine sand at 14.0' bgs.	
850								(15.0-17.0) CLAY, little silt, high plasticity; trace granule, subangular; slow dilatancy; medium stiff to stiff; dark grayish brown (10YR 4/2).	
15		4	13.0-17.0	4.0		X		End of boring at 17.0' bgs.	
845									

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater encountered at 8.6' bgs No odor or staining observed Groundwater sample collected from 8.0-12.0' bgs
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Date Start/Finish: 6/6/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451386.49 Easting: 13064720.78 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 861.52 Descriptions By: M. Meckley	Well/Boring ID: SB-A5.1-MT119 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0								(0.0-1.0) CONCRETE	
860		1	0.0-5.0	5.0	NA			(1.0-5.0) SAND, very fine to fine, trace medium sand, trace granule to medium pebble, subangular to subrounded; little clay, trace silt; poorly sorted; dry; yellowish brown (10YR 5/4).	
					0.1			NOTE: little medium sand at 3.0' bgs.	
					0.9			NOTE: some clay at 4.0' bgs.	
5					1.8				
					1.0			(5.0-5.2) CLAY, little silt, medium plasticity, no dilatancy; stiff to very stiff.	
					8.6			(5.2-6.0) SAND, very fine to fine; well sorted; dry; black (10YR 2/1).	
855		2	5.0-9.0	4.7				(6.0-11.0) CLAY, some silt, high plasticity; trace very fine sand; rapid dilatancy; dry; medium stiff; very dark brown (10YR 2/2).	
					0.0			NOTE: odor at 5.5' bgs.	
					0.0			NOTE: very dark grayish brown (10YR 3/2) at 6.5' bgs.	
					0.0			NOTE: trace silt; low plasticity, no dilatancy; no sand; stiff at 7.0' bgs.	
10					0.0			NOTE: gray (10YR 5/1) with yellowish brown (10YR 5/6) mottling at 8.0' bgs.	
					0.0			NOTE: interbedded layers of silt; gray (10YR 5/1) from 10.0'-12.0' bgs.	
850		3	9.0-13.0	2.8				(11.0-13.5') SILT, some clay, high plasticity; trace very fine sand; rapid dilatancy; soft; gray (10YR 5/1) with yellowish brown (10YR 5/6).	
					0.0				
					0.0			(13.5-20.0) SAND, very fine; some silt; trace clay; well sorted; wet; brown (10YR	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater encountered at 13.5 bgs Odor observed at 5.0' bgs Groundwater sample collected from 15.0-19.0' bgs
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Date Start/Finish: 6/6/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451386.49 Easting: 13064720.78 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 861.52 Descriptions By: M. Meckley	Well/Boring ID: SB-A5.1-MT119 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	845	3	13.0-17.0	4.5	0.0			5/3 NOTE: interbedded fine to medium sand seams; wet at 14.0' bgs, 14.8' bgs, and 15.5' bgs. NOTE: grayish brown (10YR 5/2) at 14.0' bgs.	
					0.0				
					0.0				
		4	17.0-21.0	2.5	0.0			NOTE: increasing grain size to coarse at 20.0' bgs.	
20					0.0			(20.0-21.0) CLAY, little silt, high plasticity; trace fine sand; slow diltatancy; dry; stiff; dark grayish brown (10YR 4/2).	
					0.0				
840								End of boring at 21.0' bgs	
25									
	835								
30									

	Remarks: BGS = Below ground surface Groundwater encountered at 13.5 bgs Odor observed at 5.0' bgs Groundwater sample collected from 15.0-19.0' bgs
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Date Start/Finish: 6/6/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451387.20 Easting: 13064791.34 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.46 Descriptions By: M. Meckley	Well/Boring ID: SB-A5.1-MT126 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860		1	0.0-5.0	5.0	NA			(0.0-1.2) CONCRETE	
					0.1			(1.2-5.2) SAND, very fine to fine, trace coarse sand, trace granule to small pebble, subrounded to subangular; little silt; trace clay; poorly sorted; dry; yellowish brown (10YR 5/4).	
					0.2			NOTE: trace silt; no coarse sand; well sorted; moist at 3.0' bgs.	
					0.1				
					0.0				
5					0.0			(5.2-5.8) CLAY, trace silt, high plasticity; trace medium sand; slow to no dilatancy; dry; soft to medium stiff; dark gray (10YR 4/1) to (GLEIY 4/1)	
855		2	5.0-9.0	3.5	0.0			(5.8-6.7) SAND, very fine to fine; well sorted; moist; black (10YR 2/1).	
					0.0			(6.7-9.5) CLAY, some silt, high plasticity; trace very fine sand; slow dilatancy; dry; medium stiff; very dark grayish brown (10YR 3/2). NOTE: dark gray (10YR 4/1) from 7.0'-7.2' bgs. NOTE: gray (10YR 5/1) with dark yellowish brown (10YR 4/6) at 7.8' bgs. NOTE: little silt at 8.0' bgs.	
					0.0				
					0.0			(9.5-11) SILT, some clay, high plasticity; some very fine sand; rapid dilatancy; wet; very soft to soft; gray (10YR 5/1).	
10		3	9.0-13.0	3.2	0.0			(11.0-13.0) SAND, very fine to fine, trace granule, subrounded to subangular; little silt; trace clay; wet; gray (10YR 5/1) NOTE: medium to coarse sand seam at 11.2' bgs. NOTE: clay lens at 11.4'-11.6' bgs.	
850					0.0				
					0.0			(13.0-15.5) SAND, medium; trace silt; well sorted; wet; grayish brown (10YR 5/2).	
					0.0				
15		3	13.0-17.0	4.1	0.0			(15.5-17.0) CLAY, trace silt, medium plasticity; trace medium sand, trace granule, subrounded to subangular; no dilatanacy; dry; medium stiff to stiff; dark grayish brown (10YR 4/2).	
845					0.0				
					0.0			End of boring at 17.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater encountered at 9.5' Odor observed at 5.2-9.5' bgs
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Date Start/Finish: 5/4/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 451309.44 Easting: 13064687.34 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 862.02 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NB110 Client: RACER Trust Location: Lansing, MI
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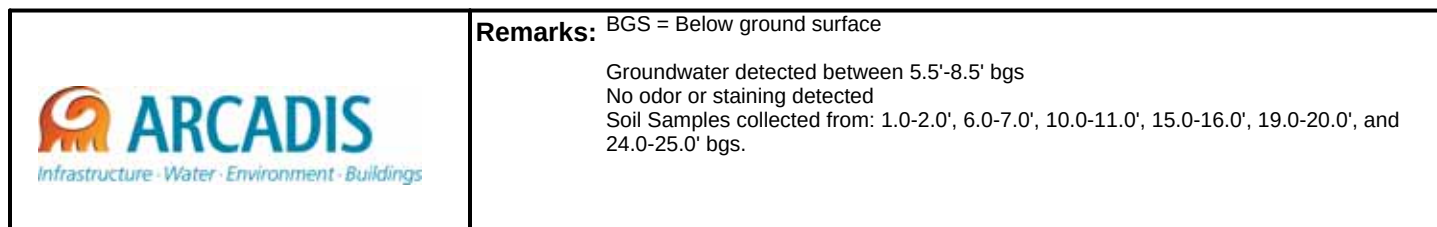
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
860	1	0-5	5.0	NA	0.0			(0.0-1.3) CONCRETE	
					0.0			(1.3-5.5) SAND, fine to medium, trace coarse sand, trace very large pebbles, subrounded; well sorted; dry; dark yellowish brown (10YR 4/4).	
					0.0				
					0.0				
5					0.0				
855	2	5-9	4.0		0.0			(5.5-8.5) SAND, fine to medium, trace small pebbles, subrounded; little silt to clay; poorly sorted; moist to wet; dark yellowish brown. NOTE: faint black streaks from 6.0'-7.0' bgs	
					0.0				
					0.0				
					0.0				
10					0.2			(8.5-13.0) CLAY, high plasticity; dry; very stiff; dark yellowish brown (10YR 4/4). NOTE: trace granules, angular at 9.0' bgs.	
850	3	9-13	4.0		0.3				
					0.0				
					0.0			NOTE: color change to drak gray (10YR 4/1) at 12.0' bgs.	

Borehole
backfilled with
Bentonite.

	Remarks: BGS = Below ground surface Groundwater detected between 5.5'-8.5' bgs No odor or staining detected Soil Samples collected from: 1.0-2.0', 6.0-7.0', 10.0-11.0', 15.0-16.0', 19.0-20.0', and 24.0-25.0' bgs.
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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Date Start/Finish: 5/8/12-5/9/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451274.50 Easting: 13065038.13 Casing Elevation: NA Borehole Depth: 25' bgs Surface Elevation: 862.12 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NE150 Client: RACER Trust Location: Lansing, MI
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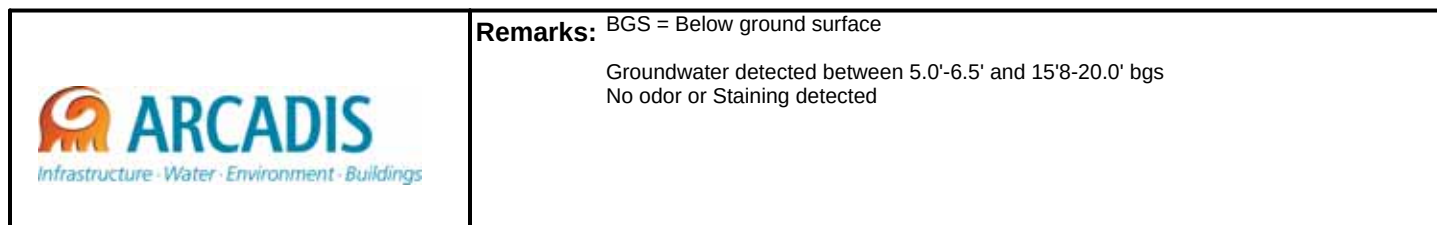
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
					0.9	NA	(0.0-0.8) CONCRETE		
					NA		(0.8-1.5) SAND, fine to coarse, some small to medium pebbles, subrounded; little clay; poorly sorted; dry; very dark grayish brown (10YR 3/2).		
860	1	0-5	5.0		NA		(1.5-3.5) CONCRETE		
					1.2		(3.5-5.0) CLAY, high plasticity; trace fine sand; dry; medium stiff; black (10YR 2/1).		
					1.2		NOTE: color change to dark yellowish brown (10YR 3/4); mottled grayish green coloration; at 4.5' bgs.		
5					0.0		(5.0-6.5) SAND, very fine to medium, little coarse sand to small pebbles, subangular to subrounded; poorly sorted; moist to wet; dark gray. NOTE: color change to dark yellowish brown at 5.5' bgs.		
					0.0		NOTE: silt seam at 6.25' bgs.		
855	2	5-9	3.3		0.0		(6.5-15.8) CLAY, medium plasticity; trace granules, subangular; dry; very stiff; dark grayish brown.		
					0.0				
					0.0				
10					0.0				
					0.0				
850	3	9-13	4.0		0.0				
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 5.0'-6.5' and 15'-20.0' bgs No odor or Staining detected
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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Date Start/Finish: 5/9/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451273.21 Easting: 13065105.75 Casing Elevation: NA Borehole Depth: 25' bgs Surface Elevation: 862.63 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NE157 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
		1	0-5	5	NA			(0.0-0.9) CONCRETE	
860					1.2			(0.9-4.0) SAND, fine to medium, trace small pebble, subrounded; well sorted; wet; brown (10YR 4/3). NOTE: FILL.	
					1.3				
					0.9			NOTE: slight odor; color change to black (10YR 2/1) from 3.0-4.0' bgs.	
								(4.0-4.5) CONCRETE	
5					0.0			(4.5-5.0) CLAY, low plasticity; little fine to medium sand, trace small pebbles, subrounded; moist; stiff; yellowish brown (10YR 5/6). NOTE: interbedded sand and clay at 5.0' bgs.	
		2	5-9	3.7	0.0			(5.0-7.0) CLAY, low plasticity; and SAND, fine to medium, trace pebbles, subround; moist; stiff; yellowish brown (10YR 5/6). NOTE: 2.0" coarse to very coarse sand layer, trace small pebbles, subangular from 6.3-6.5' bgs.	
855					0.0			(7.0-8.5) CLAY, high plasticity; trace granules, angular; dry; stiff; dark gray (10YR 4/1).	
					0.0			(8.5-9.0) SAND, fine to medium, subrounded; trace silt; well sorted; moist; yellowish brown (10YR 5/6).	
10					0.0			(9.0-16.2) CLAY, high plasticity; trace granules to small pebbles, subrounded to subangular; dry; stiff; dark gray (10YR 4/1).	
850		3	9-13	4.0	0.0				
					0.0				
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 0.85'-4.0' and 16.2'-20.7' bgs
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Date Start/Finish: 5/9/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451273.21 Easting: 13065105.75 Casing Elevation: NA Borehole Depth: 25' bgs Surface Elevation: 862.63 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NE157 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15		4	13-17	4.0	0.0			NOTE: very fine sand seam; wet at 15.0' bgs.	
					0.0			NOTE: silt seam at 16.0' bgs.	
					0.0			(16.2-20.7) SAND, fine to medium, trace coarse sand, subrounded; trace silt; well sorted; wet; dark grayish brown (10YR 4/2).	
845		5	17-21		0.0			NOTE: coarsening downwards; fine to very coarse sand, subangular at 18.0' bgs.	
20					0.0				
					0.0			(20.7-25.0) CLAY, high plasticity; trace granules, angular; dry; medium stiff; dark gray (10YR 4/1).	
840		6	21-25	4.0	0.0				
					0.0				
25					0.0			End of boring at 25.0' bgs	
835									

	Remarks: BGS = Below ground surface Groundwater detected between 0.85'-4.0' and 16.2'-20.7' bgs
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Date Start/Finish: 5/4/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451259.14 Easting: 13064587.08 Casing Elevation: NA Borehole Depth: 15.0' bgs Surface Elevation: 862.04 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NG105 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
860	1	0-5	5.0	NA	0.0			(0.0-2.0) GRAVEL, small to very large pebbles, some coarse sand, angular; poorly sorted; wet; grayish brown. (10YR 4/2) NOTE: FILL	
					0.0			(2.0-3.0) CLAY, high plasticity; little fine sand; wet; very soft; yellowish brown. (10YR 5/4)	
					0.0			(3.0-15.0) CLAY, high plasticity; trace granules to medium pebbles, angular; dry; very stiff; yellowish brown.	
5					0.0				
855	2	5-9	4.0		0.0			NOTE: change to medium stiff; trace silt at 8.0' bgs.	
					0.0				
10					0.0			NOTE: fine SAND and SILT seam; moist to wet at 10.0' bgs.	
850	3	9-13	2.0	NA	0.0				
				NA					

Borehole backfilled with Bentonite.

	Remarks: BGS = Below ground surface Groundwater detected between 0.0'-2.0' and 2.0'-3.0' bgs No odor or staining detected Soil Samples collected from: 1.0-2.0', 7.0-8.0', and 13.0-14.0' bgs.
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Date Start/Finish: 5/4/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451259.14 Easting: 13064587.08 Casing Elevation: NA Borehole Depth: 15.0' bgs Surface Elevation: 862.04 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NG105 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15		4	13-15	1.0	NA			NOTE: very large pebbles at 14.0' bgs.	
					NA			End of boring at 15.0' bgs due to refusal	
	845								
20									
	840								
25									
	835								

	Remarks: BGS = Below ground surface Groundwater detected between 0.0'-2.0' and 2.0'-3.0' bgs No odor or staining detected Soil Samples collected from: 1.0-2.0', 7.0-8.0', and 13.0-14.0' bgs.
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Date Start/Finish: 5/4/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 451263.69 Easting: 13064687.16 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 862.01 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NG115 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
					NA			(0.0-1.35) CONCRETE	
860	1	0-5	5.0	2.8				(1.35-3.0) SAND, fine to medium, trace small pebbles, subrounded; well sorted; dry; drak yellowish brown (10YR 4/4).	
				0.0					
				0.0				(3.0-25.0) CLAY, high plasticity; trace sand to small pebbles, subangular; dry; very stiff; drak yellowish brown (10YR 4/4).	
				0.0					
5				0.0					
				0.0					
855	2	5-9	4.0	0.0					
				0.0					
				0.0					
				0.0					
10				0.0				NOTE: trace large pebbles at 9.0' bgs.	
				0.0					
850	3	9-13	4.0	0.0					
				0.0					
				0.0					

Borehole backfilled with Bentonite.

	Remarks: BGS = Below ground surface Groundwater detected between 16.0'-16.8' bgs No odor or staining detected Soil Samples collected from: 1.0-2.0', 6.0-7.0', 11.0-12.0', 15.0-16.0', 20.0-21.0', and 24.0-25.0' bgs.
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Date Start/Finish: 5/4/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 451263.69 Easting: 13064687.16 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 862.01 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NG115 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15		4	13-17	4.0	0.0			NOTE: color change to dark gray; medium stiff at 13.0' bgs.	
	845				0.0				
					0.0				
					0.0				
					0.0				
					0.0				
		5	17-21	4.0	0.0			NOTE: very fine SAND and SILT seams; wet to moist at 16.0'-16.5' and 16.8' bgs.	
					0.0			NOTE: change to stiff at 17.0' bgs	
					0.0				
20					0.0				
					0.0				
	840				0.0				
					0.0				
		6	21-25	4.0	0.0				
					0.0				
					0.0				
					0.0				
25					0.0			End of boring at 25.0' bgs	
	835								

Borehole backfilled with Bentonite.

	Remarks: BGS = Below ground surface Groundwater detected between 16.0'-16.8' bgs No odor or staining detected Soil Samples collected from: 1.0-2.0', 6.0-7.0', 11.0-12.0', 15.0-16.0', 20.0-21.0', and 24.0-25.0' bgs.
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Date Start/Finish: 5/2/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451256.8832 Easting: 13064801.6 Casing Elevation: Borehole Depth: 20.0' bgs Surface Elevation: 861.363586 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NG127 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0								(0.0-0.85) CONCRETE	
860		1	0-5	5.0	0.0			(0.85-2.5) PEBBLES, small to medium cobbles, little coarse sand, subangular to subrounded; little silt; poorly sorted; wet; dark brown (10YR 3/3).	
					0.0			(2.5-13.0) CLAY, high plasticity; trace granules to small pebbles, subangular; dry; stiff; brown (10YR 5/3). NOTE: TILL	
					0.0			NOTE: Color change to orangeish gray (GLEY 1 5/1) at 4.2' bgs.	
5					0.0				
855		2	5-10	4.2	0.0			NOTE: Color change to greenish gray and yellowish brown (10YR 5/6); medium stiff at 7.0' bgs.	
					0.0				
10					0.0			NOTE: Soft from 10.0'-13.0' bgs.	
850		3	10-15	4.8	0.0				

	Remarks: BGS = Below ground surface Groundwater detected between 0.85'-2.5' and 13.0'-14.5' bgs No odor or staining detected
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Date Start/Finish: 5/2/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451256.8832 Easting: 13064801.6 Casing Elevation: Borehole Depth: 20.0' bgs Surface Elevation: 861.363586 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NG127 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	845	4	15-20	2.0	0.0			(13.0-20.0) CLAY, high plasticity; trace granules to small pebbles, subangular; moist; medium stiff; grayish brown (10YR 4/2). NOTE: Fine to medium sand seams; wet; from 13.0'-14.5' bgs. NOTE: Poor recovery from 15.0'-20.0' bgs, due to rock.	 Borehole backfilled with Bentonite Chips.
20	840				0.0			End of boring at 20.0' bgs	
25	835								

	Remarks: BGS = Below ground surface Groundwater detected between 0.85'-2.5' and 13.0'-14.5' bgs No odor or staining detected
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Date Start/Finish: 5/23/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451227.66 Easting: 13064824.75 Casing Elevation: NA Borehole Depth: 15.0' bgs Surface Elevation: 861.40 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.2-NJ129 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860		1	0.0-5.0	5.0	NA			(0.0-0.8) CONCRETE	
					0.0			(0.8-7.5) SAND, fine medium, little coarse sand, trace granules, subangular to subrounded; trace silt; poorly sorted; dry; dark yellowish brown (10YR 3/6).	
					0.0			NOTE: trace clay at 2.0' bgs.	
					0.0			NOTE: small pebbles, subrounded; no coarse sand at 3.0' bgs.	
					0.1			NOTE: medium sand; trace fine sand at 4.0' bgs.	
5					0.0				
855		2	5.0-9.0	2.0	44.0			(7.5-7.8) CLAY, trace silt, high plasticity; slow dilatancy; dry; soft; gray (10YR 5/1) with dark yellowish brown (10YR 4/6).	
					0.0			(7.8-12.5) SAND, medium, some coarse sand, trace granules, subrounded to subangular; poorly sorted; dry; dark yellowish brown (10YR 4/6).	
					2.0			NOTE: small lens of black (10YR 2/1) sand; odor at 8.5' bgs.	
10					2.3			NOTE: no coarse sand; well sorted; wet; black (10YR 2/1); odor at 9.0' bgs.	
850		3	9.0-13.0	1.5	3.0				
					1.1			(12.5-14.5) CLAY, trace silt, high plasticity; rapid dilatancy; moist; soft; dark gray (10YR 4/1). NOTE: odor.	
		4	13.0-15.0	1.3	0.0			NOTE: trace very fine sand, trace medium to large pebbles, subangular to subrounded at 14.0' bgs.	
15					0.0			(14.5-15.0) SAND, very fine; little silt; well sorted; wet; dark gray (10YR 4/1). NOTE: little granules, subrounded to subangular at 14.8' bgs.	
845								End of Boring 15.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected at 9.0' and between 14.5'-15.0' bgs Odor detected between 8.5'-14.5' bgs No Staining detected
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Date Start/Finish: 5/8/12 and 5/9/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451224.33 Easting: 13064986.48 Casing Elevation: NA Borehole Depth: 29.0' bgs Surface Elevation: 861.47 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NJ145 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860			0-5	5	0.0			(0.0-0.6) CONCRETE	
					0.6			(0.6-7.0) SAND, fine to medium, trace small pebbles, subrounded; well sorted; dry; brown (10YR 4/3).	
					1.2				
					0.8				
5		1			0.2				
855			5-9	3.3	0.0				
					0.3				
					8.0			(7.0-14.3) SAND, medium to coarse, little very fine sand to small granules, subangular to subround; poorly sorted; wet; dark yellowish brown (10YR 5/2). NOTE: black staining; odor at 8.0' bgs.	
		2			NA				
10			9-13	4.0	0.0			NOTE: color change to dark brown at 10.5' bgs. NOTE: 2.0" clay layer, trace silt at 11.0' bgs.	
					0.0				
					0.0				
		3			0.0			NOTE: clay seams from 13.5-13.7' bgs.	
			13-17	4.0	0.0			(14.3-17.0) CLAY, high plasticity; trace granules, subangular; dry; stiff; dark gray.	
15					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 7.0-14.3' and 17.0-20.7' bgs
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Date Start/Finish: 5/8/12 and 5/9/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451224.33 Easting: 13064986.48 Casing Elevation: NA Borehole Depth: 29.0' bgs Surface Elevation: 861.47 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NJ145 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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845				0.0					
	4			0.0				(17.0-20.7) SAND, medium to very coarse, little granules to small pebbles, subangular; poorly sorted; wet; dark gray.	
		17-21	3.7	0.0					
20				0.0				NOTE: fining downwards to fine to medium sand at 20.0' bgs.	
				0.0					
840	5			0.0				(20.7-25.0) CLAY, high plasticity; trace fine sand, trace granules to small pebbles, subangular; moist; medium stiff; dark gray.	
		21-25	4.0	NA					
				NA					
25				NA					
	6			NA				(25.0-29.0) NO RECOVERY due to a rock in the cutting shoe.	
835		25-29		NA					
				NA					
				NA					
30	7							End of boring at 29.0' bgs	
830									
35									

	Remarks: BGS = Below ground surface Groundwater detected between 7.0-14.3' and 17.0-20.7' bgs
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Date Start/Finish: 5/7/12 and 5/8/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451226.68 Easting: 13065155.69 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 861.59 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NJ162 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0								(0.0-1.0) CONCRETE	
860		1	0-5	5.0	NA			(1.0-3.0) SAND, medium to fine, trace coarse sand, trace small pebbles, subangular; well sorted; dry; yellowish brown.	
					0.0				
					0.0			(3.0-5.0) CLAY, high plasticity; trace very fine sand; dry; soft; black (10YR 2/1).	
					0.0				
5					0.0			(5.0-5.4) SAND, fine, trace medium sand, subrounded; well sorted; moist; dark yellowish brown.	
					0.0			(5.4-5.7) CLAY, high plasticity; trace fine sand; moist; medium stiff; dark yellowish brown.	
855		2	5-9	3.5	0.0			(5.7-6.0) SAND, medium to very coarse, trace small pebbles, subangular; trace clay; poorly sorted; wet; dark yellowish brown.	
					0.0			(6.0-15.5) CLAY, high plasticity; trace granules to small pebbles, subangular; moist; soft; dark gray.	
					0.0				
					NA				
10					0.0				
					0.0			NOTE: fine sand seam; wet at 10.6' bgs.	
850		3	9-13	4.0	0.0			NOTE: medium stiff at 11.0' bgs.	
					0.0				
					NA				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 5.4'- 5.7' and 15.5'-18.5' No odor observed
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Date Start/Finish: 5/7/12 and 5/8/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451226.68 Easting: 13065155.69 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 861.59 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NJ162 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15		4	13-17		0.0				
	845				0.0				
					0.0			(15.5-18.5) SAND, very fine to fine, trace very coarse sand, subrounded; well sorted; wet; dark gray.	
					0.0				
		5	17-21	4.0	0.0			(18.5-21.0) CLAY, high plasticity; trace small to medium pebbles, subrounded; moist; soft; medium stiff; dark gray.	
20					0.0				
					0.0				
	840							End of boring at 21.0' bgs	
25									
	835								

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 5.4'- 5.7' and 15.5'-18.5' No odor observed
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Date Start/Finish: 5/3/12 Drilling Company: Stock Drilling Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Hand Auger and Macrocore Rig Type: Geoprobe	Northing: 451220.07 Easting: 13064645.56 Casing Elevation: NA Borehole Depth: 26.0' bgs Surface Elevation: 861.96 Descriptions By: C. Barton	Well/Boring ID: SB-A5.2-NK111 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0								(0.0-1.1') CONCRETE	
860		1	0-5	5.0	0.0			(1.1-7.5') SAND, fine to medium, trace coarse sand, trace granule to medium pebble, subround to subangular; well sorted; dry; dark yellowish brown (10YR 4/6).	
5					0.0				
855		2	5-10	3.0	0.0			(7.5-8.5') CLAY, high plasticity; trace fine sand; moist to wet; soft; black (10YR 2/1). NOTE: slight odor.	
					0.0			(8.5-9.2') CONCRETE	
10					0.0			(9.2-10.5') CLAY, some silt, low plasticity; moist to dry; very stiff; gray (10YR 4/1). NOTE: medium stiff at 10.0' bgs.	
850		3	10-14	4.0	0.0			(10.5-14.0') CLAY, high plasticity; trace granules, angular; dry; stiff; dark yellowish brown.	
					0.0			(14.0-15.0') SAND, very fine to fine, some small to medium pebbles, angular; poorly sorted; wet to moist; dark yellowish brown.	
15					0.0			(15.0-16.0') SAND, fine to medium, trace coarse sand to granules, subangular; well sorted; wet; dark yellowish brown.	

Borehole backfilled with Grout.

	Remarks: bgs = Below ground surface Groundwater encountered at 15' bgs. Shake test negative from 7.5-8.5' bgs. Soil samples collected for laboratory analysis from 1-2', 7.5-8', 12-13', 15-16', 20-21', 23-24' and 25-26' bgs.
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Date Start/Finish: 5/3/12 Drilling Company: Stock Drilling Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Hand Auger and Macrocore Rig Type: Geoprobe	Northing: 451220.07 Easting: 13064645.56 Casing Elevation: NA Borehole Depth: 26.0' bgs Surface Elevation: 861.96 Descriptions By: C. Barton	Well/Boring ID: SB-A5.2-NK111 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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845		4	14-18	4.0	0.0			(16.0-18.0') CLAY, low plasticity; trace granules to small pebbles, subangular; dry; hard; dark yellowish brown.	
					0.0				
					0.0			(18.0-22.0') CLAY, high plasticity; trace granules, subangular; moist; soft to medium stiff; dark gray.	
20		5	18-22	4.0	0.0				
					0.2				
840					0.0				
					NA			(22.0-25.0') SAND, fine to medium, trace coarse sand, trace small pebbles; little silt to clay; poorly sorted; wet; dary gray.	
					NA				
25		6	22-26	4.0	NA				
					NA			(25.0-26.0') CLAY, high plasticity; trace granules, subangular; moist; stiff; dark brown.	
					NA				
835								End of boring at 26.0' bgs	
30									
830									
35									

Borehole backfilled with Grout.

	Remarks: bgs = Below ground surface Groundwater encountered at 15' bgs. Shake test negative from 7.5-8.5' bgs. Soil samples collected for laboratory analysis from 1-2', 7.5-8', 12-13', 15-16', 20-21', 23-24' and 25-26' bgs.
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Date Start/Finish: 5/23/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451207.70 Easting: 13064674.52 Casing Elevation: NA Borehole Depth: 18.0' bgs Surface Elevation: 861.97 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.2-NL114 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0								(0.0-1.0) CONCRETE	
860	1	0.0-5.0	5.0	NA	0.0			(1.0-6.5) SAND, very fine; little silt, trace clay; well sorted; dry; yellowish brown (10YR 5/4). NOTE: trace granules, subrounded at 3.0' bgs. NOTE: little clay at 4.0' bgs. NOTE: odor; wet at 5.0' bgs. NOTE: silt and clay lenses at 5.5' and 6.2' bgs.	
855	2	5.0-9.0	3.9	NA	0.0			(6.5-6.7) SAND, coarse, trace very fine sand, trace granules, subrounded to subangular; poorly sorted; wet; dark gray (10YR 4/1). NOTE: odor.	
				NA	0.1			(6.7-7.7) CLAY, little silt, high plasticity; trace granules, subangular; no dilatancy; dry; very stiff; very dark grayish brown (10YR 3/2).	
				NA	0.0			(7.7-7.8) SAND, fine to medium, trace granules, subangular; little clay to silt; poorly sorted; moist; dark gray (10YR 4/1).	
				NA	0.0			(7.8-7.9) CLAY, little silt, high plasticity; trace granules, subangular; no dilatancy; dry; very stiff; very dark grayish brown (10YR 3/2).	
10				NA	0.0			(7.9-8.0) SAND, fine to medium, trace granules, subangular; little clay to silt; poorly sorted; moist; dark gray (10YR 4/1).	
				NA	0.0			(8.0-9.0) CLAY, little silt, high plasticity; trace granules, subangular; no dilatancy; dry; very stiff; very dark grayish brown (10YR 3/2).	
850	3	9.0-13.0		NA	0.2			(9.0-11.1) CLAY, some silt, medium plasticity; rapid dilatancy; dry; soft to medium stiff; grayish brown (10YR 5/2). NOTE: strong odor. NOTE: medium sand seams; dark yellow brown (10YR 4/6); from 10.0'-11.0' bgs.	
				NA	0.6			(11.1-18.0) SAND, very fine, trace fine, trace granules, subrounded to subangular; some silt to clay; poorly sorted; dry; gray brown with dark yellowish brown. NOTE: seams of clay and sand to 18.0' bgs. NOTE: odor.	Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 6.5'-6.7' bgs Odor detected between 6.5'-6.7', 9.0'-18.0' bgs No Staining detected
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Date Start/Finish: 5/23/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451207.70 Easting: 13064674.52 Casing Elevation: NA Borehole Depth: 18.0' bgs Surface Elevation: 861.97 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.2-NL114 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	845	4	13.0-18.0	5.0	0.5 0.1 0.1 0.0 0.0				 Borehole backfilled with Grout.
20	840							End of Boring 18.0' bgs	
25	835								

	Remarks: BGS = Below ground surface Groundwater detected between 6.5'-6.7' bgs Odor detected between 6.5'-6.7', 9.0'-18.0' bgs No Staining detected
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Date Start/Finish: 5/2/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451207.6538 Easting: 13064747.64 Casing Elevation: Borehole Depth: 25.0' bgs Surface Elevation: 861.609252 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NL121 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860		1	0-5	5.0	0.0			(0.0-0.55) CONCRETE	
					0.0			(0.55-4.0) SAND, fine to medium, trace granules, subangular to subrounded; well sorted; moist; dark yellowish brown. NOTE: FILL.	
					0.0			NOTE: Color change to dark brown (19YR 3/3); increase in fines; metal debris at 2.0' bgs.	
					0.0			NOTE: Wet; increase in fines at 3.5' bgs.	
5					0.0			(4.0-5.0) CLAY, little silt, high plasticity; little very fine sand, trace large pebbles, angular; wet; soft; black (10YR 2/1).	
					0.0			(5.0-5.8) SAND, very fine; silt, some clay, high plasticity; wet; soft; black (10YR 2/1).	
855		2	5-10	5.0	0.0			(5.8-8.3) CLAY, high plasticity; trace medium sand, trace pebbles, subangular to subrounded; dry; stiff; greenish gray (GLEYS 1 6/1) and yellowish brown. NOTE: Color change to yellowish brown (10YR 5/4) at 6.8' bgs.	
					0.0			(8.3-9.3) SAND, very fine, trace small pebbles, subangular; silt; poorly sorted; moist; greenish gray. NOTE: slight laminations at 8.3'-8.5' bgs.	
10					0.0			(9.3-20.8) CLAY, high plasticity; trace granules to medium pebbles, subangular; moist to dry; stiff; dark gray (10YR 4/1). NOTE: TILL.	
850		3	10-15	5.0	0.0				

Borehole backfilled with Bentonite Chips.

	Remarks: BGS = Below ground surface Groundwater detected at 3.5' and between 4.0'-5.0', 5.0'-5.8', 17.0'-18.0', at 20.0' and between 20.8'-22.5' bgs No odor or staining detected
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Date Start/Finish: 5/2/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451207.6538 Easting: 13064747.64 Casing Elevation: Borehole Depth: 25.0' bgs Surface Elevation: 861.609252 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NL121 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15					0.0				
					0.0				
					0.0				
845					0.0				
		4	15-20	5.0	0.0			NOTE: Fine to medium sand seams; wet; from 17.0'-18.0' bgs.	
					0.0				
					0.0				
20					0.0				
					0.0			NOTE: Sand seam; wet; at 20.0' bgs.	
					0.0			(20.8-22.5) CLAY, some silt, high plasticity; some fine to medium sand; moist to wet; medium stiff to soft; dark gray (10YR 4/1). NOTE: Sand and silt are interbedded in clay	
840									
		5	20-25	4.8				(22.5-25.0) CLAY, high plasticity; trace granules to medium pebbles, subangular; moist; medium stiff; dark gray.	
25								End of boring at 25.0' bgs	
835									

	Remarks: BGS = Below ground surface Groundwater detected at 3.5' and between 4.0'-5.0', 5.0'-5.8', 17.0'-18.0', at 20.0' and between 20.8'-22.5' bgs No odor or staining detected
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Date Start/Finish: 5/3/12 Drilling Company: Stock Drilling Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Hand Auger and Macrocore Rig Type: Geoprobe	Northing: 451180.05 Easting: 13064594.57 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 862.01 Descriptions By: C. Barton	Well/Boring ID: SB-A5.2-NO106 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0					NA			(0.0-1.2') CONCRETE	
860	1	0-5'	5.0	0.9				(1.2-6.0') SAND, very fine to fine, trace granules, subround; well sorted; dry; brown (10YR 5/3).	
				0.9					
				2.2					
5				0.0					
				0.0					
855	2	5-9'	3.6	0.0				(6.0-7.5') SAND, very fine to medium, trace coarse sand to granule, subangular; poorly sorted; wet; brown (10YR 4/3).	
				0.0					
				0.0				(7.5-18.5') SAND, medium to very coarse, trace granules to small pebbles, subangular to subround; poorly sorted; wet; brown.	
				NA					
10				0.0					
	3	9-13'	1.6	0.0					
850				NA					
				NA					
				0.0					
				0.0					
15	4	13-17'	1.5	0.0				NOTE: coarsening downward to predominately coarse to very coarse sand at 14.0' bgs, and coarsening downward to small to medium pebbles at 18.0' bgs.	
				NA					

Borehole backfilled with Grout.

	Remarks: bgs = Below ground surface Soil samples collected for laboratory analysis from 1-2', 6-7', 10-11', 13-14', 20-21', and 24-25' bgs. No staining detected.
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Date Start/Finish: 5/3/12 Drilling Company: Stock Drilling Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Hand Auger and Macrocore Rig Type: Geoprobe	Northing: 451180.05 Easting: 13064594.57 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 862.01 Descriptions By: C. Barton	Well/Boring ID: SB-A5.2-NO106 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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845					NA				
					NA				
		5	17-21'	3.0	0.0			(18.5-19.5') CLAY, high plasticity; trace fine to medium sand, trace granules to small pebbles, subangular; moist; stiff; brown (10YR 4/3).	
20					0.0			(19.5-24.2') CLAY, high plasticity; trace small to large pebble, subangular to subround; moist; medium stiff; dark gray (10YR 4/1). NOTE: slight odor.	
					0.0			NOTE: moist to wet at 21.0-24.2' bgs.	
840		6	21-23'	3.9	0.0				
					0.0				
					0.0			(24.2-25') SAND, very fine, well sorted; some silt; dry to moist; gray (10YR 5/1).	
25					0.0			End of boring at 25.0' bgs	
835									
30									
830									
35									

Borehole backfilled with Grout.

	Remarks: bgs = Below ground surface Soil samples collected for laboratory analysis from 1-2', 6-7', 10-11', 13-14', 20-21', and 24-25' bgs. No staining detected.
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Date Start/Finish: 5/2/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451180.5695 Easting: 13064691.23 Casing Elevation: Borehole Depth: 25.0' bgs Surface Elevation: 861.994873 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NO116 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860	1	0-5	5.0	0.0				(0.0-1.0) CONCRETE	
				1.3				(1.0-4.0) SAND, fine to medium, trace small pebbles, subrounded; well sorted; dry; brown (10YR 4/3).	
				0.7					
5				0.0				(4.0-10.0) CLAY, low plasticity; trace granules, subangular; dry; stiff; brown (10YR 4/3) with spots of grayish green.	
855	2	5-10	3.8	0.0				NOTE: Layer of SAND, fine to medium; moist; at 7.8' bgs.	
				0.0					
10				0.0				(10.0-19.7) CLAY, high plasticity; trace medium sand, trace granules to small pebbles, subangular; moist; soft; grayish brown (10YR 5/2).	
850	3	10-15	4.8	0.0				NOTE: Color change to dark yellowish brown; stiff; dry; from 11.8' to 13.0' bgs.	
				0.0					

Borehole backfilled with Bentonite Chips.

	Remarks: BGS = Below ground surface Groundwater not detected No odor or staining detected
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Date Start/Finish: 5/2/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451180.5695 Easting: 13064691.23 Casing Elevation: Borehole Depth: 25.0' bgs Surface Elevation: 861.994873 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NO116 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15					0.0				
					0.0				
					0.0				
845					0.0				
	4	15-20		4.8	0.0				
					0.0				
					0.0				
					0.0				
					0.0				
20					0.0				
								(19.7-20.0) SAND, fine to medium, trace granules to small pebbles, subrounded; well sorted; dry; grayish brown. NOTE: very compacted.	
								(20.0-25.0) CLAY, high plasticity; trace granules to small pebbles, subangular; dry; stiff to medium stiff; dark grayish brown (10YR 4/2).	
840									
	5	20-25		5.0					
25									
								End of boring at 25.0' bgs	
835									

	Remarks: BGS = Below ground surface Groundwater not detected No odor or staining detected
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Date Start/Finish: 5/8/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451174.24 Easting: 13065036.42 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 861.88 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NO150 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860	1	0-5	5.0	NA	0.0			(0.0-1.5) CONCRETE	
					0.0			(1.5-5.0) SAND, fine to medium, trace small pebbles, subrounded; well sorted; moist; dark yellowish brown. NOTE: wet at 2.0' bgs.	
					0.0				
					0.0				
5				NA					
855	2	5-9	3.5	0.0				(5.0-8.5) CLAY, little silt, high plasticity; some fine sand, trace small pebbles, subrounded; wet; soft to medium stiff; dark yellowish brown.	
					0.0				
					0.0				
					0.0				
10								(8.5-25.0) CLAY, high plasticity; trace small pebbles, subrounded; well sorted; moist; dark yellowish brown.	
					0.0			NOTE: 1.0" sand layer; wet at 9.7' bgs.	
					0.0				
850	3	9-13	4.0						
					0.0				
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 2.0'-8.5' No odor or staining observed
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Date Start/Finish: 5/9/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451175.74 Easting: 13065097.41 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 861.62 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NO156 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860		1	0-5	5.0	0.8			(0.0-0.9) CONCRETE	
					0.6			(0.9-6.7) SAND, fine to medium, trace coarse sand, trace granules to large pebbles, subrounded; well sorted; dry; yellowish brown (10YR 5/4).	
					0.5				
					0.2				
					0.5			NOTE: color change to dark grayish brown (10YR 4/2); moist to wet at 4.0' bgs.	
5					0.0			NOTE: wet at 5.0' bgs.	
855		2	5-9	2.3	0.0				
					0.0			(6.7-11.0) GRAVEL, small to medium pebbles, some medium sand, subrounded; little silt; poorly sorted; wet; yellowish brown.	
					0.0				
					NA				
10					0.0				
		3	9-13	2.8	0.0			(11.0-11.9) CLAY, little fine to coarse sand, little small to large pebbles, subrounded to subangular; wet; medium stiff; dark gray.	
850					0.0			(11.9-25.0) CLAY, high plasticity; trace granule to small pebble, angular; dry to moist; stiff; dark gray.	
					NA				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 5.0'-11.9' bgs
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Date Start/Finish: 5/8/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451177.07 Easting: 13065106.08 Casing Elevation: NA Borehole Depth: 8.0' bgs Surface Elevation: 861.77 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NO157 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860	1	0-5	5.0	0.0	0.0	0.0	0.0	(0.0-8.0) CLAY, high plasticity; and GRAVEL, small to very large pebbles, little cobbles, subangular; poorly sorted; dry; dark brown. NOTE: concrete debris, FILL.	
5				NA	0.0			NOTE: wet at 4.5' bgs.	
855	2	5-8	0.95	NA	0.0			NOTE: change to all pebbles; debris at 5.0' bgs.	Borehole backfilled with Grout.
				NA					
10								End of boring at 8.0' bgs due to refusal	
850									

	Remarks: BGS = Below ground surface Groundwater detected at 4.5' No odor or staining observed
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Date Start/Finish: 5/1/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451150.9047 Easting: 13064811.34 Casing Elevation: Borehole Depth: 25.0' bgs Surface Elevation: 861.135314 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NR128 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860		1	0-4	4.0	0.0			(0.0-2.0) SAND, fine to medium, some small to large pebbles, subangular; trace silt; poorly sorted; moist to wet; yellowish brown (10YR 5/6). NOTE: Color change to black; Odor; from 1.0'-2.0' bgs.	
					1.0				
					0.0			(2.0-5.0) SAND, fine to medium, little granules to small pebbles, subrounded to subangular; trace silt; trace clay; poorly sorted; wet; black (10YR 2/1). NOTE: Odor from 2.0'-5.0' bgs.	
					0.8				
		2	4-5	1.0	0.0			NOTE: Rock/concrete at 4.0' bgs.	
5		3	5-6	1.0	0.0			(5.0-7.8) Pulverized rock and high specific gravity solid (metal) NOTE: Rock/concrete covered black liquid from 5.0'-5.5' bgs.	
855									
		4	6-10	3.5	0.0				
					0.0			(7.8-10.0) CLAY, high plasticity; trace coarse sand; moist to wet; soft; dark greenish gray (GLEY 1 4/1). NOTE: Odor.	
10									
850		5	10-15	5.0	0.0			(10.0-20.0) CLAY, high plasticity; trace granules; stiff; dry; light brownish gray (10YR 6/2).	
					0.0				
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 0.0'-2.0', 2.0'-5.0', 7.8'-10.0', 20.0'-20.5' and 20.5'-25.0' bgs Odor detected between 0.0'-2.0', 2.0'-5.0' and 7.8'-10.0' bgs
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Date Start/Finish: 5/1/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451150.9047 Easting: 13064811.34 Casing Elevation: Borehole Depth: 25.0' bgs Surface Elevation: 861.135314 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NR128 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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30	830								
35									

	Remarks: BGS = Below ground surface Groundwater detected between 0.0'-2.0', 2.0'-5.0', 7.8'-10.0', 20.0'-20.5' and 20.5'-25.0' bgs Odor detected between 0.0'-2.0', 2.0'-5.0' and 7.8'-10.0' bgs
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Date Start/Finish: 5/3/12 Drilling Company: Stock Drilling Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Hand Auger and Macrocore Rig Type: Geoprobe	Northing: 451128.64 Easting: 13064646.19 Casing Elevation: NA Borehole Depth: 24' bgs Surface Elevation: 862.06 Descriptions By: C. Barton	Well/Boring ID: SB-A5.2-NT111 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
					NA			(0.0-1.15') CONCRETE	
		1	0-5	5.0	0.3			(1.15-3.0') SAND, fine to medium, trace granules to small pebbles, subangular; well sorted; wet; dark yellowish brown (10YR 4/4).	
					0.3				
					0.0			(3.0-6.25') CLAY, low plasticity; trace granules to large pebbles, subangular; dry to moist; medium stiff; dark yellowish brown (10YR 4/4).	
					2.1				
5					0.0				
					0.0				
		2	5-10	4.8	0.0			(6.25-8.35') SAND, very fine to fine, trace medium sand; and SILT; poorly sorted; moist to wet; brown (10YR 5/3). NOTE: interbedded clay.	
					0.0				
					0.0			(8.35-12.0') CLAY, high plasticity; trace granule, subangular; moist; medium stiff; dark yellowish brown (10YR 4/4). NOTE: SILT seam; wet at 9.1' bgs.	
10					0.0				
					0.0				
					0.0			NOTE: SAND seam, very fine; wet at 11.8' bgs.	
		3	10-15	4.8	0.0			(12.0-17.0') CLAY, high plasticity; moist; soft; dark grayish brown (10YR 4/2). NOTE: moist to wet SILT seams at 12.2, 13.5, 14.0, and 16.5' bgs.	
					0.0				
					0.0				
15					0.0				

Borehole backfilled with Grout.

	Remarks: bgs = Below ground surface Shake test slightly positive from 19-20' bgs. Soil samples collected for laboratory analysis from 1-2', 4-5', 7-8', 12-13', 17-18', and 19-20' bgs. No staining detected.
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Date Start/Finish: 5/3/12 Drilling Company: Stock Drilling Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Hand Auger and Macrocore Rig Type: Geoprobe	Northing: 451128.64 Easting: 13064646.19 Casing Elevation: NA Borehole Depth: 24' bgs Surface Elevation: 862.06 Descriptions By: C. Barton	Well/Boring ID: SB-A5.2-NT111 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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845	4	15-19	4.0	0.0				(17.0-18.9') CLAY, medium to high plasticity; trace small pebbles, angular; moist; medium stiff; dark grayish brown (10YR 4/2). NOTE: SAND seam, fine to medium; moist at 18.9' bgs.	
				0.0					
				0.0					
20				0.0				(18.9-20.5') SAND, very fine to medium, trace granules to small pebbles, subangular; little silt, little clay; poorly sorted; wet; dark grayish brown. NOTE: odor.	
				0.2					
				0.0				(20.5-24') CLAY, high plasticity; trace fine sand, trace granules to small pebbles, subangular; moist to wet; medium stiff; dark grayish brown.	
840	5	19-24	4.0	0.0					
				0.0					
				0.0					
				0.0					
25								End of boring at 24.0' bgs	
835									
30									
830									
35									

Borehole backfilled with Grout.

	Remarks: bgs = Below ground surface Shake test slightly positive from 19-20' bgs. Soil samples collected for laboratory analysis from 1-2', 4-5', 7-8', 12-13', 17-18', and 19-20' bgs. No staining detected.
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Date Start/Finish: 5/22/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 451117.44 Easting: 13064606.05 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.94 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.2-NU107 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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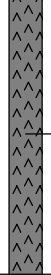
0								(0.0-1.5) CONCRETE	
860	1	0.0-5.0	5.0	0.3				(1.5-3.5) SAND, very fine to fine, trace granules, angular to subrounded; trace clay, little silt; poorly sorted; dry; dark yellowish brown (10YR 6/4). NOTE: trace silt at 2.5' bgs.	
				0.5					
				0.1				(3.5-6.0) CLAY, little silt, low plasticity; little very fine to fine sand, trace very coarse sand to small pebbles, subrounded to subangular; rapid dilatancy; dry; medium stiff; dark yellowish brown 910YR 4/4).	
5				0.0				NOTE: odor at 5.0' bgs.	
				0.1				NOTE: stiff to very stiff from 5.5'-6.0' bgs.	
855	2	5.0-9.0	5.0	1.0				(6.0-6.7) CLAY, trace silt, low plasticity; trace coarse sand, subangular; no dilatancy; dry; stiff to very stiff; dark yellowish brown (10YR 4/4). NOTE: odor.	
				2.5				(6.7-8.1) CLAY, medium to high plasticity; no dilatancy; dry; soft to medium stiff; dark yellowish brown (10YR 4/4). NOTE: small silt seam at 6.8' bgs..	
				0.7				(8.1-8.3) SILT, trace clay, low plasticity; little very fine sand; no dilatancy; dry; soft; grayish brown (10YR 4/2).	
10				0.3				(8.3-8.5) SAND, very fine to fine; little silt; moist; well sorted; dark grayish brown (10YR 4/2). NOTE: strong odor.	
				1.5				(8.5-8.6) CLAY, medium to high plasticity; no dilatancy; dry; soft to medium stiff; dark grayish brown (10YR 4/2).	
				0.3				(8.6-8.8) SAND, very fine to fine; little silt; moist; well sorted; black with gray (10YR 2/1 w/ 4/2).	
850	3	9.0-13.0	3.9	0.3				(8.8-11.0) SAND, very fine to fine, little medium sand; trace clay; well sorted; brown (10YR 5/3). NOTE: silt seam; odor; from 11.0'-11.1' bgs.	
				1.2				(11.1-12.4) CLAY, trace silt, high plasticity; slow dilatancy; dry; soft to medium; stiff; yellowish brown (10YR 4/4).	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface No Groundwater detected Odor detected at 5.0'-6.7', 8.3'-11.0' and 15.3'-17.0' bgs No Staining detected
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Date Start/Finish: 5/22/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 451117.44 Easting: 13064606.05 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.94 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.2-NU107 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	845	4	13.0-17.0	4.9	0.0 0.1 0.2 0.1			NOTE: silt seam from 12.4'-12.5' bgs. (12.4-15.0) SAND, very fine to medium, trace small pebbles, subrounded; trace silt; poorly sorted; dry; (10YR 3/6), dark gray (10YR 4/1) - bottom. NOTE: trace clay at 13.5' bgs. NOTE: trace small cobble, subrounded at 14.2' bgs. (15.0-15.3) SAND, medium to very coarse, trace small to large pebbles, subangular to subrounded; little clay, trace silt; poorly sorted; moist; dark yellow to brown (10YR 4/6). (15.3-15.8) SAND, very fine to fine, trace small to medium pebbles, subrounded; little silt to clay; poorly sorted; dry; dark yellowish brown with some black (10YR 4/6 w/ 10YR 2/1). NOTE: odor. (15.8-17.0) SILT, some clay, low plasticity; trace very fine sand, trace granules, subround; rapid dilatancy; dry; medium stiff to stiff; dark grayish brown. NOTE: odor. End of boring at 17.0' bgs	 Borehole backfilled with Grout.
20	840								
25	835								

	Remarks: BGS = Below ground surface No Groundwater detected Odor detected at 5.0'-6.7', 8.3'-11.0' and 15.3'-17.0' bgs No Staining detected
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Date Start/Finish: 4/30/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451117.6634 Easting: 13064854.9 Casing Elevation: Borehole Depth: 4.0' bgs Surface Elevation: 861.98645 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NU132 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860	1	0-4	4.0	0.4				(0.0-0.4) CONCRETE/ASPHALT	
				0.6	X			(0.4-2.0) SAND, fine to medium, trace granules, little small to large pebbles, subrounded; poorly sorted; moist; dark yellowish (10YR 4/4).	
				0.8	X			(2.0-4.0) SAND, very fine to fine, trace small to medium pebbles, subrounded to subangular; well sorted; wet; brown to black (12.5Y 5/3). NOTE: Slight odor.	Borehole backfilled with Grout.
				0.3					
5								End of boring at 4.0' bgs due to refusal	
855									
10									
850									

	Remarks: BGS = Below ground surface Groundwater detected between 2.0'-4.0' bgs Odor detected between 2.0'-4.0' bgs
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Date Start/Finish: 4/30/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Hand Auger to 5.0'; Dual-tube Rig Type: Geoprobe	Northing: 451106.7545 Easting: 13064866.24 Casing Elevation: Borehole Depth: 31.0' bgs Surface Elevation: 861.929687 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NV133 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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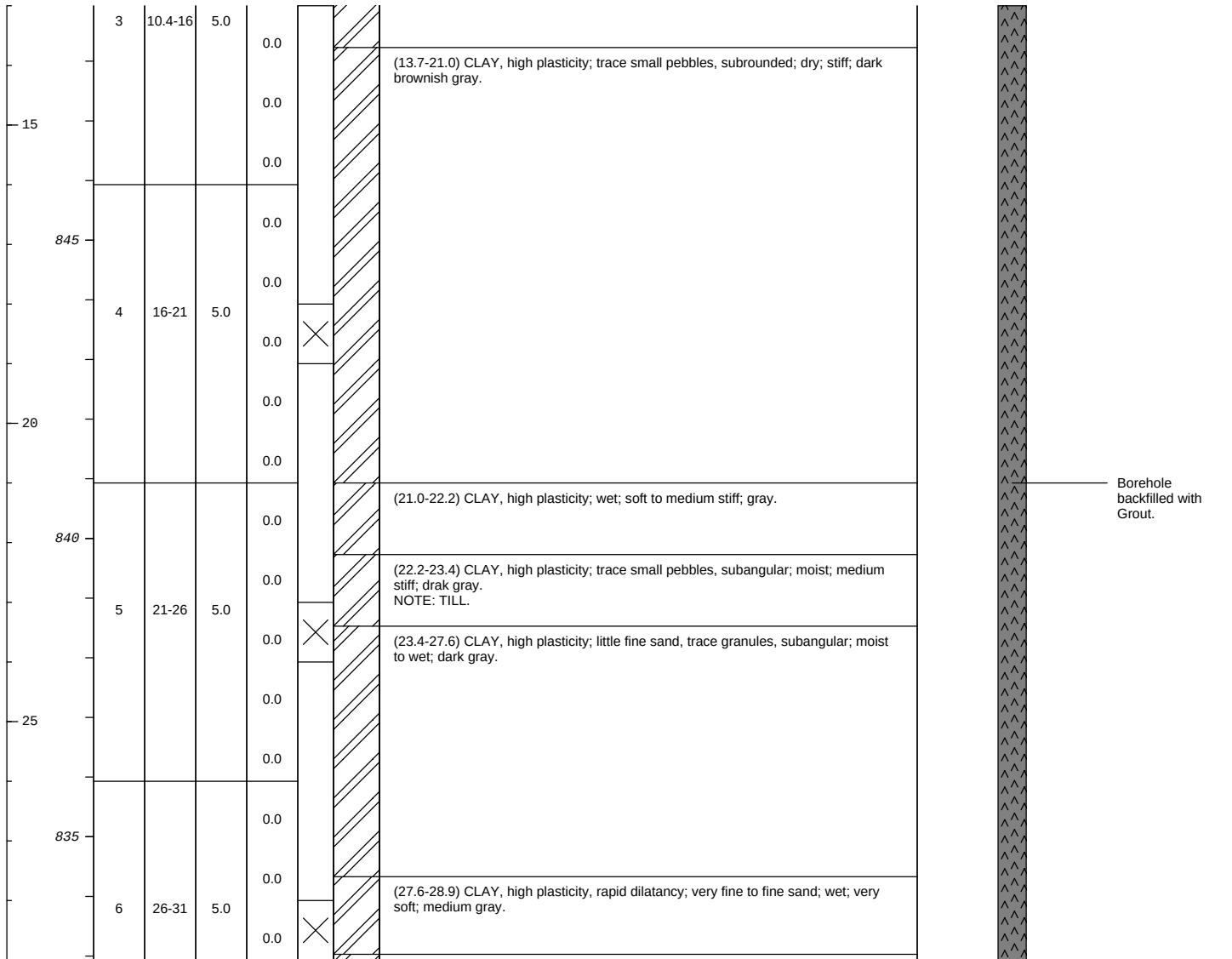
0									
860	1	0-5	5.0	0.0				(0.0-0.35) CONCRETE	
				0.0				(0.35-2.0) SAND, fine to medium, trace granules to large pebbles, subrounded; well sorted; dry; dark yellowish brown.	
				0.0				(2.0-4.0) CLAY, high plasticity; little granules to small pebbles, subrounded; dry; medium stiff; very dark brown to black. NOTE: Odor.	
5				0.0				(4.0-7.0) CLAY, high plasticity, slow dilatancy; trace granules to small pebbles, subrounded; wet; soft; black. NOTE: Odor.	
855	2	5-10.4	5.4	0.0				(7.0-12.0) CLAY, high plasticity; trace small to medium pebbles, subrounded; dry; stiff; dark brownish gray.	
				0.0					
10				0.0					
850				0.0				(12.0-13.7) CLAY, little silt, high plasticity; trace granules; wet; soft; grayish brown.	
				0.0					
				0.0					

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-7.0', 12.0'-13.7', 21.0'-22.2', 23.4'-27.6', and 27.6'-28.9' bgs Odor detected between 2.0'-4.0' and 4.0'-7.0' bgs
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Date Start/Finish: 4/30/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Hand Auger to 5.0'; Dual-tube Rig Type: Geoprobe	Northing: 451106.7545 Easting: 13064866.24 Casing Elevation: Borehole Depth: 31.0' bgs Surface Elevation: 861.929687 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NV133 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-7.0', 12.0'-13.7', 21.0'-22.2', 23.4'-27.6', and 27.6'-28.9' bgs Odor detected between 2.0'-4.0' and 4.0'-7.0' bgs
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Date Start/Finish: 4/30/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Hand Auger to 5.0'; Dual-tube Rig Type: Geoprobe	Northing: 451106.7545 Easting: 13064866.24 Casing Elevation: Borehole Depth: 31.0' bgs Surface Elevation: 861.929687 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NV133 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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30					0.0			(28.3-31.0) CLAY, high plasticity; trace granules to small pebbles, subangular; moist; medium stiff; gray.	
					0.0				
830								End of boring at 31.0' bgs	
35									
825									
40									
820									
45									



Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-7.0', 12.0'-13.7', 21.0'-22.2', 23.4'-27.6', and 27.6'-28.9' bgs Odor detected between 2.0'-4.0' and 4.0'-7.0' bgs
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Date Start/Finish: 5/1/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451098.4711 Easting: 13064775.025638 Casing Elevation: Borehole Depth: 30.0' bgs Surface Elevation: 861.614807 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NW124 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860	1	0-3	3.0	0.0				(0.0-1.0) CONCRETE; debris	
								(1.0-2.0) SAND, very fine to fine, some small to large pebbles, subangular; poorly sorted; little clay; dry; brown (10YR 4/3).	
				2.0				(2.0-3.0) CLAY, high plasticity; little very coarse sand to medium pebbles, subangular to subrounded; dry stiff; dark gray (10YR 4/1). NOTE: Odor.	
5	2	3-6	1.5	3.2				(3.0-6.5) SAND, fine to medium, small to large pebbles, angular to subrounded; poorly sorted; dry; dark gray to black. NOTE: Moist at 4.0'-4.5' bgs.	
855				1.1				NOTE: Wet at 6.0'-6.5' bgs.	
	3	6-10	1.8	0.0				(6.5-10.5) CLAY, high plasticity; trace granules, subangular; moist; medium stiff to soft; dark greenish gray (LEY 1 4/1). NOTE: Slight odor; TILL; from 6.5'-7.0' bgs.	
10				0.0				(10.5-21.0) CLAY, high plasticity; trace granules to large pebbles; subangular; medium stiff; moist to dry; dark gray (10YR 4/1). NOTE: Wood debris; trace medium sand; at 10.5' bgs.	
850				0.0				NOTE: Sand seams; wet; at 11.2' and 11.7' bgs.	
	4	10-15	2.7	0.0					

Borehole backfilled with Bentonite Chips.

	Remarks: BGS = Below ground surface Groundwater detected between 6.0'-6.5', 11.2', 11.7', 21.0'-21.5' and 21.5'-23.0' bgs Odor detected between 2.0' - 3.0' bgs
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Date Start/Finish: 5/1/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451098.4711 Easting: 13064775.025638 Casing Elevation: Borehole Depth: 30.0' bgs Surface Elevation: 861.614807 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NW124 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15									
	845	5	15-20	5	0.0				
					0.0				
					0.0				
					0.0				
20					0.0				
	840	6	20-25	4.5	0.0			(21.0-21.5) CLAY, little silt, high plasticity; very fine to fine sand, trace coarse, subangular; moist to wet; stiff; dark gray (10YR 4/1).	
					0.0			(21.5-23.0) SAND, very fine to fine, trace granules to small pebbles, subrounded to subangular; well sorted; wet; dark gray (10YR 4/1).	
					0.0			(23.0-30.0) CLAY, high plasticity; trace fine sand, trace granules to large pebbles, subrounded; dry; stiff; dark gray (10YR 4/1).	
25					0.0				
	835	7	25-30	5	0.0			NOTE: Moist from 25.0'-26.5' bgs.	
					0.0				
					0.0				
					0.0				

	Remarks: BGS = Below ground surface Groundwater detected between 6.0'-6.5', 11.2', 11.7', 21.0'-21.5' and 21.5'-23.0' bgs Odor detected between 2.0' - 3.0' bgs
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Date Start/Finish: 5/1/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451098.4711 Easting: 13064775.025638 Casing Elevation: Borehole Depth: 30.0' bgs Surface Elevation: 861.614807 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NW124 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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30				0.0				End of boring at 30.0' bgs	 Borehole backfilled with Bentonite Chips.
35									
40									
45									

	Remarks: BGS = Below ground surface Groundwater detected between 6.0'-6.5', 11.2', 11.7', 21.0'-21.5' and 21.5'-23.0' bgs Odor detected between 2.0' - 3.0' bgs
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Date Start/Finish: 6/4/12 Drilling Company: Driller's Name: Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 451072.92 Easting: 13064455.38 Casing Elevation: NA Borehole Depth: 10.0' bgs Surface Elevation: 862.11 Descriptions By: Meryl Hicks	Well/Boring ID: SB-A5.2-NY92 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
								(0.0-1.6) CONCRETE	
860	1	0.0-5.0	2.0	9.9	X			(1.6-8.3) SAND, very fine to medium, some granules to medium pebbles, trace very large pebbles, subangular to subrounded; moist; brown (10YR 5/2). NOTE: odor.	
				24.3				NOTE: increase of pebbles from 3.0'-4.0' bgs.	
				34.0	X				
5				33.0					
855	2	5.0-10.0		12.1					
				0.0					
				0.0					
				0.0	X			(8.3-10.0) CLAY, some silt, high plasticity; some very fine to fine sand; no dilatancy; moist; dark grayish brown (10YR 4/2).	
10				0.0				End of Boring 10.0' bgs.	
850									

	Remarks: BGS = Below ground surface No Groundwater detected Odor detected between 1.6'-8.0' bgs No Staining detected
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Date Start/Finish: 5/1/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451067.71826 Easting: 13064813.729212 Casing Elevation: Borehole Depth: 30.0' bgs Surface Elevation: 862.05371 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NZ128 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0								(0.0-1.5) CONCRETE	
860	1	1.5-6	5.0	0.0	X			(1.5-6.0) SAND, fine to medium, trace granules to small pebbles, subrounded; well sorted; moist to wet; dark yellowish brown (10YR 5/5).	
				0.0					
				0.0					
				0.6	X			NOTE: Odor; gray staining; from 4.0'-6.0' bgs.	
5				0.3					
855	2	6-11	4.9	0.0	X			(6.0-11.0) CLAY, high plasticity; trace medium sand; moist; medium stiff; dark greenish gray (GLEY 1 4/1). NOTE: Odor from 6.0'-7.5' bgs.	
				0.0					
				0.0					
10				0.0	X			(11.0-12.25) SAND, medium to coarse, trace granules, subangular to subrounded; well sorted; wet; brown (10YR 4/3).	
850				0.0				(12.25-16.0) SAND, medium to coarse, trace granules to small pebbles, subangular to subrounded; little silt; poorly sorted; wet; brown (10YR 4/3).	
				0.0					

Borehole backfilled with 2 bags of Grout and 1/3 bag of Chip.

	Remarks: BGS = Below ground surface Groundwater detected between 1.5'-6.0', 11.0'-12.25' and 12.5'-16.0' bgs Staining detected between 4.0'-6.0' bgs Odor detected between 4.0'-6.0' and 6.0'-7.5' bgs
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Date Start/Finish: 5/1/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451067.71826 Easting: 13064813.729212 Casing Elevation: Borehole Depth: 30.0' bgs Surface Elevation: 862.05371 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NZ128 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15		3	11-16	2.5	0.0				
845		4	16-21	5.0	0.0			(16.0-20.0) CLAY, high plasticity; trace medium sand; moist; medium stiff, drak gray (10YR 4/1). NOTE: Rock in shoe; poor recovery.	
20					0.0				
840		5	21-24	4.0	0.0			(20.0-30.0) CLAY, trace granules to very large pebbles, subangular to subrounded. NOTE: TILL.	
25					0.0				
835		6	25-30	5.0	0.0				



Borehole
backfilled with 2
bags of Grout
and 1/3 bag of
Chip.

	Remarks: BGS = Below ground surface Groundwater detected between 1.5'-6.0', 11.0'-12.25' and 12.5'-16.0' bgs Staining detected between 4.0'-6.0' bgs Odor detected between 4.0'-6.0' and 6.0'-7.5' bgs
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Date Start/Finish: 5/1/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451067.71826 Easting: 13064813.729212 Casing Elevation: Borehole Depth: 30.0' bgs Surface Elevation: 862.05371 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NZ128 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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30				0.0				End of boring at 30' bgs	
830									
35									
825									
40									
820									
45									

	Remarks: BGS = Below ground surface Groundwater detected between 1.5'-6.0', 11.0'-12.25' and 12.5'-16.0' bgs Staining detected between 4.0'-6.0' bgs Odor detected between 4.0'-6.0' and 6.0'-7.5' bgs
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Date Start/Finish: 5/1/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451066.063713 Easting: 13064912.270324 Casing Elevation: Borehole Depth: 5.0' bgs Surface Elevation: 862.022399 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NZ138 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
860	1	0-5	5.0	0.0				(0.0-1.6) CONCRETE	X X X X X X X X Borehole backfilled with 1/3 bag of Chip.
				0.0				(1.6-4.0) SAND, fine to medium, trace coarse sand, trace granules to large pebbles, subrounded to subangular; poorly sorted; wet; dark yellowish brown (10YR 4/4).	
				0.0					
				0.0				(4.0-5.0) CLAY, high plasticity; trace medium sand; wet to moist; soft to medium stiff, brown (10YR 4/3).	
5				0.0				End of boring at 5.0' bgs - due to refusal.	
855									
10									
850									

	Remarks: BGS = Below ground surface Groundwater detected between 1.6'-4.0' and 4.0'-5.0' bgs No odor or staining detected
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Date Start/Finish: 5/4/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 451068.83 Easting: 13064975.37 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 862.04 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-NZ144 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
					NA			(0.0-1.6) CONCRETE	
					0.0			(1.6-2.0) CLAY, high plasticity; some medium to coarse sand, little small pebbles, subangular; wet; soft; dark yellowish brown.	
860	1	0-5	2.0		NA			(2.0-5.5) CONCRETE	
					NA				
					NA				
5					0.0			(5.5-5.7) CLAY, high plasticity; dry; medium stiff; dark yellowish brown.	
					0.0			(5.7-7.0) SAND, fine to medium, little coarse sand; subrounded; little clay; poorly sorted; wet to moist; dark yellowish brown.	
855	2	5-9	1.9		NA			(7.0-25.0) CLAY, high plasticity; trace granules to medium pebbles, subangular; moist; medium stiff; dark gray.	
					NA				
10					0.0				
					0.0				
	3	9-13	3.0		0.0				
850					NA				

	Remarks: BGS = Below ground surface Groundwater detected between 1.6'-2.0' and 5.7'-7.0' also at 19.1' and 20.4' bgs No odor or staining detected Soil Samples collected from: 1.0-2.0', 6.0-7.0', 12.0-13.0', 18.0-19.0', and 24.0-25.0' bgs.
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Date Start/Finish: 5/10/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451057.12 Easting: 13064915.97 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 862.06 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-OA138 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
					NA			(0.0-1.7) CONCRETE	
				0.5				(1.7-2.0) SAND, fine to medium, trace granules to very large pebbles, subangular; trace silt; well sorted; moist to wet; brown (10YR 4/3). NOTE: FILL.	
860	1	0.0-5.0	5.0					(2.0-.2.5) CONCRETE	
				1.0				(2.5-7.5) SAND, fine to medium, little small to medium pebbles, subangular; little silt, trace clay; poorly sorted; moist to wet; brown (10YR 4/3). NOTE: FILL; brick debris.	
				1.9					
				2.1					
5								NOTE: wet at 5.0' bgs.	
				0.0					
				0.0					
855	2	5.0-9.0	3.5					(7.5-10.8) CLAY, high plasticity; trace granules, trace fine sand, subrounded; moist to dry; soft; very dark brown to black (10YR 2/1); grayish green coloration. NOTE: Faint odor. NOTE: Brick and glass debris in clay from 7.5'-8.0' bgs.	
				0.0					
				0.0					
10									
				0.0				(10.8-11.7) SAND, very fine to fine, little medium sand, trace small pebbles, subangular; little silt; poorly sorted; wet; black (10YR 2/1).	
	3	9.0-13.0	3.3						
				0.0				(11.7-25.0) CLAY, high plasticity; trace granules to small pebbles, subangular; dry; very stiff; dark gray (10YR 4/1).	
850									
				0.0					

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 1.7'-2.0', 2.5'-7.5', and 10.8'-11.7' bgs Odor detected between 7.5'-10.8' bgs No staining observed
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Date Start/Finish: 5/10/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451057.12 Easting: 13064915.97 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 862.06 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-OA138 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15		4	13.0-17.0	3.7	0.0				
845					0.0				
		5	17.0-21.0	4.0	0.0				
20					0.0				
					0.0				
840					0.0				
		6	21.0-25.0	4.0	0.0				
					0.0				
25					0.0				
835									

NOTE: medium stiff from 23.0-24.0' bgs.

End of boring at 25.0' bgs

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 1.7'-2.0', 2.5'-7.5', and 10.8'-11.7' bgs Odor detected between 7.5'-10.8' bgs No staining observed
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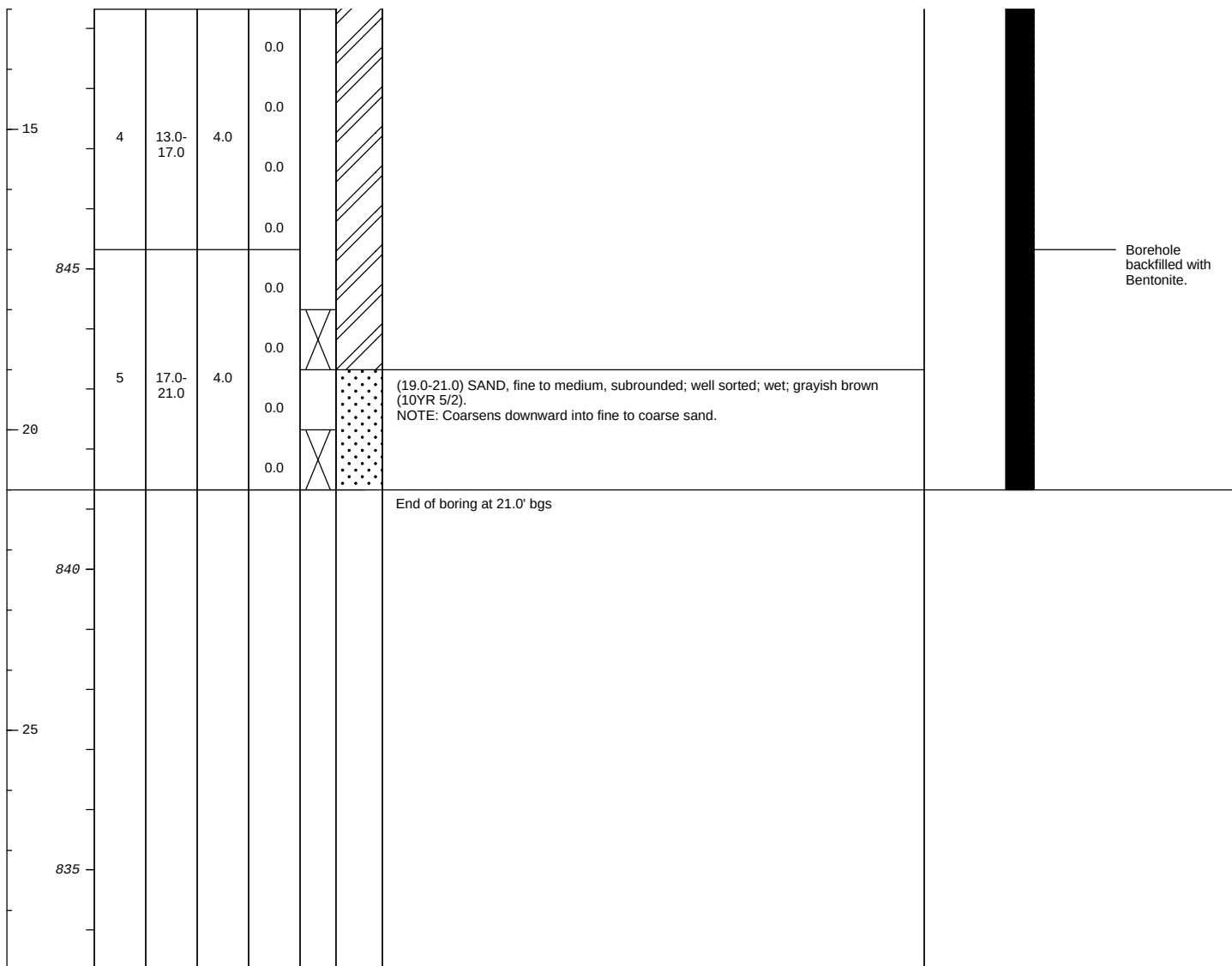
Date Start/Finish: 5/7/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451060.00 Easting: 13065157.90 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 862.32 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-OA162 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
					NA			(0.0-1.4) CONCRETE	
				0.0				(1.4-2.0) SAND, medium to very coarse, trace small to large pebbles, subangular; little clay; poorly sorted; wet; brown.	
860		1	0.0-5.0	5.0	0.0			(2.0-5.0) CLAY, high plasticity; little very fine sand; wet; medium stiff to soft; yellowish brown (10YR 5/6).	
				0.0					
				0.0					
5					0.0			(5.0-9.0) SAND, medium to coarse, trace small pebbles, some very coarse sand; trace silt; poorly sorted; wet; yellowish brown.	
				0.0					
855		2	5.0-9.0	2.0	NA				
					NA				
				0.0				(9.0-19.0) CLAY, high plasticity; trace small pebbles, subrounded to subangular; moist to dry; medium stiff; dark grayish brown (10YR 4/2). NOTE: TILL.	
10					0.0				
				0.0					
850		3	9.0-13.0	4.0	0.0				
					0.0				

Borehole backfilled with Bentonite.

	Remarks: BGS = Below ground surface Groundwater detected between 1.35'-2.0', 2.0'-5.0', 5.0'-9.0', 9.0'-19.0' and 19.0'-21.0' bgs No Odor or Staining detected
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[illegible]

Project: B0064479.2012 Template:boring_well_geoprobe 2007 analytical Page: 2 of 2
Data File:SB-A5.2-OA162.dat Date:5/22/2012 Created/Edited by:M.Chapman

Date Start/Finish: 5/22/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 451047.14 Easting: 13064734.57 Casing Elevation: NA Borehole Depth: 27.0' bgs Surface Elevation: 861.98 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.2-OB120 Client: RACER Trust Location: Lansing, MI
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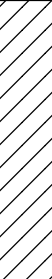
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
	860	1	0.0-5.0	5.0	NA			(0.0-0.5) CONCRETE	
					0.0			(0.5-5.0) SAND, very fine to fine, trace coarse sand, trace small pebbles, subangular to subrounded; poorly sorted; dry; dark yellowish brown (10YR 4/4).	
					0.0				
					0.0			NOTE: trace clay at 4.0' bgs.	
					0.0				
5									
	855	2	5.0-9.0	2.0				(5.0-9.0) CLAY, little silt, high plasticity; trace very fine to fine sand; rapid dilatancy; dry to slightly moist; soft; very dark gray brown (10YR 3/2).	
					0.0			NOTE: transitions to little sand; odor; towards 9.0' bgs.	
					0.0				
					0.1				
								(9.0-9.8) SAND, fine to medium, trace granules to small pebbles, subrounded; poorly sorted; dry; brown (10YR 4/4).	
10					3.6				
					0.7			(9.8-11.2) CLAY, little silt, medium plasticity; trace very fine sand, trace granules, subangular to subround; slow dilatancy; dry; silt; dark yellow brown (10YR 4/6).	
	850	3	9.0-13.0	2.7	5.0			(11.2-13.0) SAND, fine to medium, trace medium to large pebbles, subangular to subrounded; little clay to silt; poorly sorted; black-brown (10YR 2/1) to black (10YR 2/1). NOTE: odor.	
					3.0				

	Remarks: BGS = Below ground surface Groundwater detected between 15.5'-16.0' and 16.0'-20.0'bgs Odor detected at 9.0' and between 11.2'-27.0' bgs No staining
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Date Start/Finish: 5/22/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 451047.14 Easting: 13064734.57 Casing Elevation: NA Borehole Depth: 27.0' bgs Surface Elevation: 861.98 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.2-OB120 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	4	13.0-17.0	3.2	1.0		(13.0-15.5) CLAY, trace silt, low plasticity; no dilatancy; stiff to very stiff; gray to black (10YR 2/1).
				1.2		
				0.9		NOTE: little silt, medium stiff, medium plasticity; slow dilatancy; odor; at 15.0' bgs.
				2.0		(15.5-16.0) SAND, medium to coarse, trace granules to small pebbles, subangular to subrounded; trace clay; poorly sorted; wet; dark gray (10YR 2/1). NOTE: odor.
20	5	17.0-21.0	4.0	5.0		(16.0-16.5) CLAY, trace silt, low plasticity; no dilatancy; stiff to very stiff; green to gray (10YR 4/1 & GLEY 3/N). NOTE: odor.
				0.5		(16.5-20.0) SAND, fine to medium, trace coarse sand, subangular to subrounded; trace silt; poorly sorted; wet. NOTE: strong odor.
				0.8		NOTE: at 17.5' bgs very coarse sand, little small to medium pebbles, subrounded to subangular. Returns to fine to medium at 18.0' bgs.
				0.9		NOTE: CLAY seams from 17.0'-20.0' bgs.
25	6	21.0-24.0	3.2	1.0		(20.0-27.0) CLAY, little silt, low plasticity; trace very fine to coarse sand, subangular to subround; slow dilatancy; dry; stiff; gray (10YR 3/1). NOTE: odor.
				NA		
				NA		
				NA		
35	7	24.0-27.0	3.0	NA		
				NA		
				NA		
				NA		
						End of boring at 27.0' bgs



Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 15.5'-16.0' and 16.0'-20.0'bgs Odor detected at 9.0' and between 11.2'-27.0' bgs No staining
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Date Start/Finish: 5/22/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 451040.58 Easting: 13064601.24 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 862.08 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.2-OC107 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
860	1	0.0-4.0	4.0	NA				(0.0-1.9) CONCRETE	
				NA					
				0.5				(1.9-3.0) SAND, medium to coarse, little fine sand, trace granules, subround; trace silt to clay; poorly sorted; moist; brown (10YR 3/2).	
				3.1				(3.0-5.5) CLAY, some silt, low plasticity; little very fine sand; slow dilatancy; dry; soft to medium stiff; brown (10YR 4/3).	
5				1.3				NOTE: mottled with light gray (10YR 5/1); at 4.0' bgs.	
	2	4.0-9.0	3.5	2.7				NOTE: medium to coarse sand seam, trace granules to small pebbles, subangular; at 5.0' bgs.	
				3.1				(5.5-8.1) CLAY, little silt, low plasticity; trace granules, subangular, no dilatancy; dry; very stiff; brown to red (7.5 YR 4/3) with light gray (10YR 5/1).	
855				4.2				NOTE: odor.	
				4.3				NOTE: odor and sheen (on outside of macrocore) was observed from 5.0'-9.0' bgs.	
								(8.1-8.8) SILT, little clay, low to medium plasticity; trace very fine sand; rapid dilatancy; stiff to very stiff; red to brown (7.5YR 4/3).	
10				0.0				NOTE: odor.	
	3	9.0-13.0	3.0	0.0				NOTE: pocket of sand observed inside of boring, medium to coarse; well sorted; dry; black (10YR 2/1); from 8.1'-8.3' bgs.	
850				0.0				(8.8-13.0) SAND, very fine to medium, trace small to medium pebbles, subrounded to subangular; poorly sorted; trace silt to clay; wet; brown (10YR 5/3).	
				0.0				NOTE: slight odor.	
				0.0				NOTE: moist at 11.5' bgs.	
15	4	13.0-17.0	0.0	NA				(13.0-17.0) No Recovery.	
				NA					
				NA					
				NA					
845								End of boring at 17.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater not detected Odor and sheen detected between 5.0'-9.0' bgs. No staining
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Date Start/Finish: 5/22/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 451033.83 Easting: 13064608.24 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 862.11 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.2-OC107A Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
860	1	0.0-5.0			NA			(0.0-1.9) CONCRETE.	
					NA				
					NA			(1.9-3.0) SAND, medium to coarse, little fine sand, trace granules, subround; trace clay to silt; poorly sorted; moist; brown (10YR 3/2).	
					NA			(3.0-5.0) CLAY, some silt, low plasticity; little very fine sand; slow dilatancy; dry; soft to medium stiff; brown (10YR 4/3).	
5					NA				
	2	5.0-9.0	4.8		1.5			(5.0-7.5) CLAY, trace silt, low plasticity; trace granules, subangular; no dilatancy; dry; stiff; dark yellowish brown (10YR 4/6). NOTE: odor.	
855					0.0			NOTE: light gray mottling from 5.0'-7.5' bgs.	
					3.3			NOTE: medium stiff at 6.2' bgs.	
					2.3			(7.5-7.8) SAND, medium to coarse, small pebbles, trace granules, subangular to subrounded; trace silt; poorly sorted. NOTE: odor.	
10	3	9.0-13.0	4.3		0.0			(7.8-9.0) SAND, very fine to medium, trace coarse sand to granules, subrounded to subangular; trace silt to clay; poorly sorted; wet; yellowish brown (10YR 4/4). NOTE: silt seams from 7.5'-9.0' bgs.	
					0.2			NOTE: wet at 8.5' bgs.	
850					1.2			(9.0-11.0) SAND, fine to medium, trace granules, subrounded; well sorted; wet; brown (10YR 5/3).	
					0.2			NOTE: Alternating layers (~2.0") of SAND and SILT and CLAY from 9.0'-11.0' bgs.	
					0.5			(11.0-12.7) CLAY, little silt, high plasticity; rapid dilatancy; dry; soft to medium stiff; brown (10YR 5/4).	
15	4	13.0-17.0	4.8		0.0			(12.7-14.0) SAND, very fine; some silt; well sorted; dry; dark gray (10YR 4/1).	
					0.1			NOTE: trace small to medium pebbles, subrounded at 13.0' bgs.	
					0.1			(14.0-17.0) SILT, little clay, low plasticity; trace very fine sand, trace granules, subangular; slow dilatancy; dry; stiff to very stiff; dark gray (10YR 4/1).	
845								End of boring at 17.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 7.8'-11.0' bgs Odor detected between 5.0'-7.8' bgs No staining
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Date Start/Finish: 5/7/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451026.64 Easting: 13065075.44 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 862.23 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-OD154 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
					NA			(0.0-1.9) CONCRETE	
					NA				
860		1	0.0-5.0	5.0	0.6	X		(1.9-13.0) SAND, fine to coarse, trace small pebbles, subangular; poorly sorted; moist to wet; yellowish brown (10YR 5/4).	
					1.0				
					0.0				
5					0.0				
					NA				
855		2	5.0-9.0	1.3	NA				
					NA				
					0.0	X			
10					0.0			NOTE: coarsens downward to medium to very coarse sand at 10.0' bgs.	
					0.0				
850		3	9.0-13.0	1.3	NA				
					NA				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 1.85'-13.0' and 20.0'-21.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/7/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451026.64 Easting: 13065075.44 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 862.23 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-OD154 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15		4	13.0-17.0	4.0	0.0			(13.0-20.0) CLAY, high plasticity; trace fine sand, trace granules to small pebbles, subangular; dry to moist; medium stiff to stiff; grayish brown (10YR 4/2).	
845					0.0				
		5	17.0-21.0	4.0	0.0				
20					0.0			(20.0-21.0) SAND, fine to medium, trace small pebbles, subangular; well sorted; wet; grayish brown.	
					0.0			End of boring at 21.0' bgs	
840									
25									
835									



Borehole
backfilled with
Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 1.85'-13.0' and 20.0'-21.0' bgs No Odor or Staining detected
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 0.0'-2.0' and 2.0'-7.5' bgs No Odor or staining detected
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Date Start/Finish: 5/10/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450993.39 Easting: 13064911.77 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 862.07 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-OG138 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
					0.0			(0.0-0.6) CONCRETE	
					0.0			(0.6-5.0) SAND, fine to medium, trace coarse sand, trace very large pebbles, angular to subround; well sorted; moist; brown (10YR 4/3). NOTE: FILL.	
860		1	0.0-5.0	5.0	0.0			NOTE: wet at 3.0' bgs.	
					0.0				
					0.0				
5					NA			(5.0-6.5) CLAY, high plasticity; some fine to medium sand, trace small pebbles, subangular; wet; very soft; dark grey (10YR 4/1). NOTE: spotty green and grey coloration.	
					0.0			(6.5-21.0) CLAY, high plasticity; trace granules, subangular; dry; very stiff; dark grey.	
855		2	5.0-9.0	3.0	0.0			NOTE: trace small to medium pebbles from 7.0'-21.0' bgs.	
					0.0			NOTE: fine sand seam at 8.1' bgs.	
					0.0				
10					0.0				
					0.0			NOTE: wet sand seam; fine to medium sand at 10.5' bgs.	
850		3	9.0-13.0	4.0	0.0				
					0.0				
					0.0				

Borehole backfilled with grout.

	Remarks: BGS = Below ground surface Groundwater detected between 3.0'-6.5' No odor or staining detected
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Date Start/Finish: 5/10/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450993.39 Easting: 13064911.77 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 862.07 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-OG138 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15		4	13.0-17.0	4.0	0.0			NOTE: moist; medium stiff from 13.0'-14.0' bgs.	 Borehole backfilled with grout.
845					0.0				
					0.0				
					0.0				
		5	17.0-21.0	4.0	0.0			NOTE: silt seam; wet at 19.5' bgs. NOTE: medium stiff at 20.0' bgs.	
20					0.0				
					0.0				
					0.0				
								End of boring at 21.0' bgs	
840									
25									
835									

	Remarks: BGS = Below ground surface Groundwater detected between 3.0'-6.5' No odor or staining detected
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Date Start/Finish: 5/4/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 450994.14 Easting: 13064974.51 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 862.10 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-OG144 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
860	1	0-5	1.0	0.0	NA			(0.0-3.5) GRAVEL, small cobbles, little coarse sand; little clay; poorly sorted; moist; dark brown. NOTE: FILL, rubber and metal debris; wet at 1.0' bgs	
				NA					
				NA					
				NA				(3.5-6.0) CONCRETE	
5				0.0					
				0.0				(6.0-7.0) CONCRETE; coarse sand.	
855	2	5-9	2.3	0.0	NA			(7.0-9.0) SAND, medium to very coarse, some small pebbles, subrounded; little silt; poorly sorted; wet; dark gray (10YR 4/1).	
				0.0					
				NA					
				0.0				(9.0-17.0) CLAY, high plasticity; trace granules, subangular; moist; medium stiff; dark gray.	
10				0.0					
	3	9-13	2.9	0.0					
850				NA					

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected at 1.0' bgs and between 7.0'-9.0' bgs No odor or staining detected
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Date Start/Finish: 5/4/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 450994.14 Easting: 13064974.51 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 862.10 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-OG144 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15		4	13-17	2.5	0.0				
					0.0				
					NA				
					NA				
845					NA			NOTE: NO RECOVERY 17.0'-21.0' bgs	
					NA				
		5	17-21	0.0	NA				
20					NA				
					NA				
					0.0			(21.0-25.0) CLAY, high plasticity; trace granules, subangular; moist; medium stiff; dark gray.	
840					NA				
		6	21-25	0.75	NA				
					NA				
25								End of boring at 25.0' bgs	
835									

	Remarks: BGS = Below ground surface Groundwater detected at 1.0' bgs and between 7.0'-9.0' bgs No odor or staining detected
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Date Start/Finish: 5/7/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Hand Auger Rig Type: Geoprobe	Northing: 450994.30 Easting: 13065154.15 Casing Elevation: NA Borehole Depth: 2.0' bgs Surface Elevation: 862.27 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-OG162 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
	1	0.0-2.0	2.0	0.0	X			(0.0-2.0) SAND, coarse to very coarse, some small to medium pebbles, little fine sand, subrounded; little silt; poorly sorted; dry; dark brown (10YR 3/3). NOTE: FILL; large cobble size debris; bricks; concrete blocks.	Borehole backfilled with Bentonite.
860								End of boring at 2.0' bgs due to refusal	
5									
855									
10									
850									

	Remarks: BGS = Below ground surface Groundwater not detected No Odor or Staining detected
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Date Start/Finish: 5/10/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450987.89 Easting: 13065155.63 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 862.27 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-OH162 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
					NA			(0.0-0.9) CONCRETE	
				0.0				(0.9-1.5) SAND, fine to medium, trace granules to small pebbles, subangular; well sorted; dry; brown (10YR 4/3).	
860	1	0.0-5.0	5.0					(1.5-4.0) CONCRETE	
					NA				
					NA				
5					0.0			(4.0-18.7) CLAY, high plasticity; trace granules to small pebbles, subangular; moist; medium stiff; dark yellowish brown (10YR 4/6).	
					NA			NOTE: wet from 5.0'-7.0' bgs	
855	2	5.0-9.0	2.4						
				0.0					
				0.0					
				0.0				NOTE: stiff to very stiff; color mottled gray; from 8.5'-9.0' bgs	
10					0.0				
					0.0				
850	3	9.0-13.0	3.4						
					0.0				
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 5.0'-7.0', 18.7'-19.4', and 19.4'-21.0' bgs No odor or staining observed
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Date Start/Finish: 5/10/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450987.89 Easting: 13065155.63 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 862.27 Descriptions By: Colleen Barton	Well/Boring ID: SB-A5.2-OH162 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15		4	13.0-17.0	4.0	0.0			NOTE: color change to dark gray (10YR 4/1) at 13.5' bgs	
845					0.0				
		5	17.0-21.0	3.4	0.0			(18.7-19.4) SAND, fine to medium, little coarse to very coarse sand, subangular; poorly sorted; wet; dark gray.	
20					0.0			(19.4-21.0) SAND, fine to medium, subangular to subrounded; well sorted; wet; grayish brown (10YR 5/2).	
					0.0				
840		6	21.0-25.0	4.0	0.0			(21.0-25.0) CLAY, high plasticity; trace granules to small pebbles, subangular; moist; medium stiff; dark gray.	
					0.0				
25					0.0			End of boring at 25.0' bgs	
835									

	Remarks: BGS = Below ground surface Groundwater detected between 5.0'-7.0', 18.7'-19.4', and 19.4'-21.0' bgs No odor or staining observed
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Date Start/Finish: 5/31/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451036.91 Easting: 13065224.05 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 862.10 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.3-OC169 Client: RACER Trust Location: Lansing, MI
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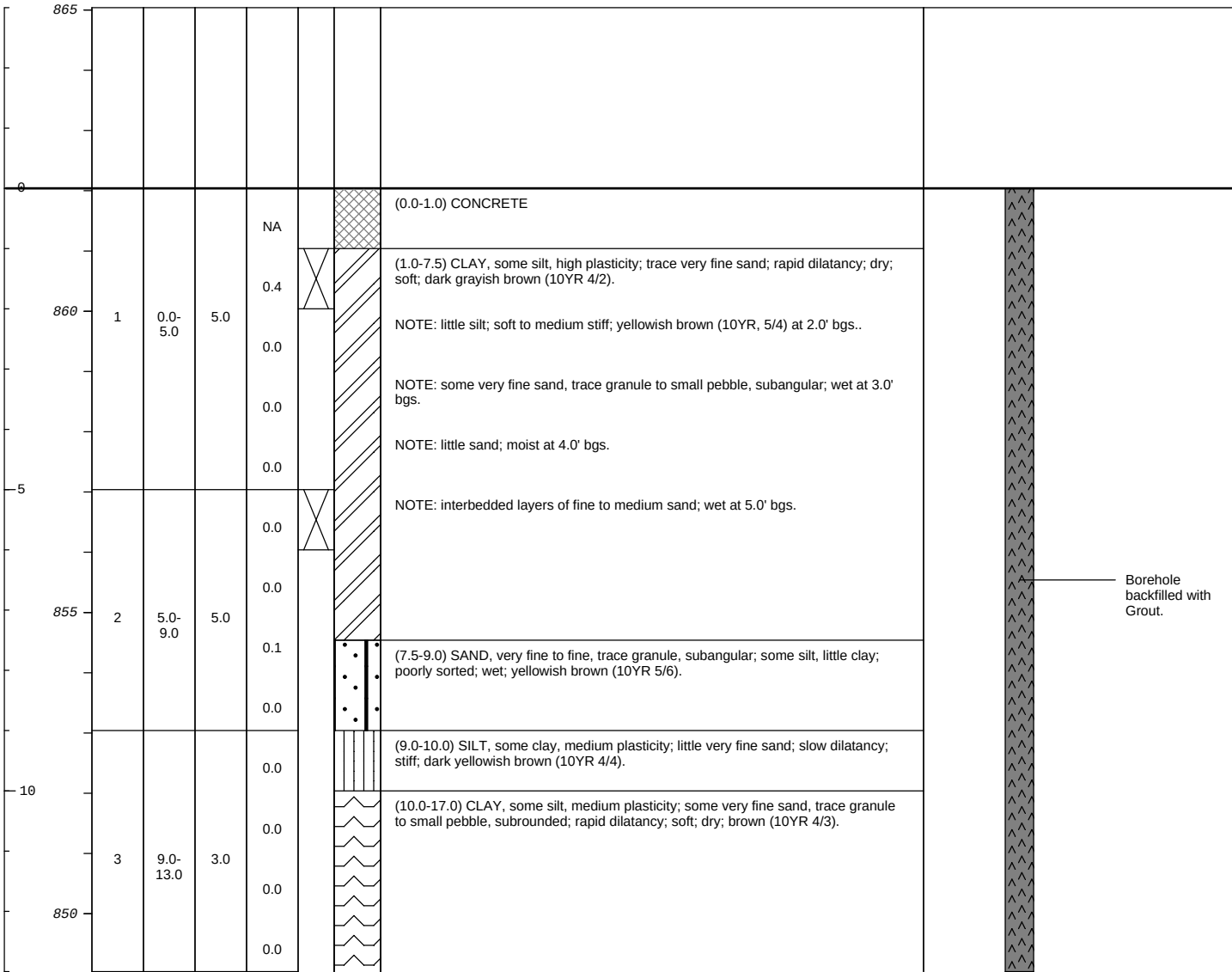
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0								(0.0-1.0) CONCRETE	
860	1	0.0-5.0	5.0	NA				(1.0-2.0) SAND, fine to medium, little very coarse sand to granules; little clay to silt; poorly sorted; dry; brown (10YR 4/3).	
				0.0				(2.0-17.0) CLAY, some silt, high plasticity, trace fine sand; slow dilatancy; dry; soft; dark grayish brown (10YR 4/2).	
				0.1				NOTE: medium stiff to stiff; no to slow dilatancy; medium plasticity at 3.0' bgs.	
				0.3					
5				0.4					
				0.0				NOTE: trace very fine sand, trace small to medium pebbles, subrounded; color change to dark yellow brown (10YR 4/6) with gray (10YR 5/1); very fine sand and silt seams from 5.0'-8.0' bgs.	
855	2	5.0-9.0	3.9	0.0				NOTE: color change to dark yellowish brown (10YR 4/4); from 5.0'-9.0' bgs.	
				0.0				NOTE: grayish brown (10YR 5/2) from 8.0'-9.0' bgs.	
				0.0				NOTE: some very fine sand; red (5YR 4/6) from 9.0'-9.3' bgs.	
10				0.0					
850	3	9.0-13.0	3.6	0.0					
				0.0					
				0.0				NOTE: color change to grayish brown (10YR 5/2) at 14.0' bgs.	
15				0.0					
845	4	13.0-17.0	4.5	0.0					
				0.0					
				0.0				End of Boring 17.0' bgs.	

	Remarks: BGS = Below ground surface No Groundwater detected No Odor detected No Staining detected
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Date Start/Finish: 5/31/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451037.74 Easting: 13065283.66 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 862.04 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.3-OC175 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected at 3.0', 5.0' and between 7.5'-9.0' bgs No Odor detected No Staining detected
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Date Start/Finish: 5/31/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451037.74 Easting: 13065283.66 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 862.04 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.3-OC175 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15		4	13.0-17.0	4.0	0.0			Note: little very fine sand; medium stiff; dark grayish brown (10YR 4/2) at 13.5' bgs.	
					0.0			Note: small lenses of coarse to very coarse sand, and granule to small pebble, subangular to subrounded from 14.0'-15.0' bgs.	
					0.0				
	845				0.0				
								End of Boring at 17.0' bgs.	
20									
	840								
25									
	835								

	Remarks: BGS = Below ground surface Groundwater detected at 3.0', 5.0' and between 7.5'-9.0' bgs No Odor detected No Staining detected
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Date Start/Finish: 5/31/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450976.78 Easting: 13065223.68 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 862.36 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.3-OI169 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
860	1	0.0-5.0	5.0	0.3	NA	X		(0.0-1.0) CONCRETE	
				0.2		X		(1.0-9.0) CLAY, little silt, high plasticity; trace very fine to medium sand; no dilatancy; dry; soft to medium; brown (10YR 4/5) with dark yellowish brown (10YR 4/6).	
				0.4				NOTE: dark yellowish brown (10YR 4/6) at 3.0' bgs.	
				0.1				NOTE: some silt at 4.0' bgs.	
5				0.0		X		NOTE: little silt; mottling with light gray (10YR 7/1); medium stiff to stiff; trace small to medium pebbles, subrounded to subangular at 5.5' bgs.	
855	2	5.0-9.0	5.0	0.0		X			
				0.0				(9.0-11.5) CLAY, some silt, medium plasticity; little very fine sand, trace small pebbles, subangular to subround; no dilatancy; dry; medium stiff; brown (10YR 4/3).	
				0.1				NOTE: fine to coarse sand seam; poorly sorted; wet from 10.8'-10.9' bgs.	
10	3	9.0-13.0	5.0	0.0				(11.5-15.0) SILT, some clay, high plasticity; some very fine sand; rapid dilatancy; dry; medium stiff; dark yellowish brown (10YR 4/4).	
850				0.1					
				0.0					
15	4	13.0-17.0	4.5	0.1				NOTE: fine to medium sand seam; moist at 14.8' bgs.	
				0.2				(15.0-17.0) CLAY, some silt, medium plasticity; little very fine sand, trace granules to small pebbles, subangular to subround; rapid dilatancy; dry; medium stiff; brown (10YR 4/3).	
				0.0		X		NOTE: very stiff from 16.5'-17.0' bgs.	
845								End of Boring 17.0' bgs.	

	Remarks: BGS = Below ground surface Groundwater detected between 10.8'-10.9' bgs No Odor detected No Staining detected
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Date Start/Finish: 5/31/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450977.01 Easting: 13065284.87 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 864.38 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.3-OI175 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0								(0.0-0.8) CONCRETE	
		1	0.0-5.0	5.0	NA			(0.8-2.0) SAND, medium to very coarse, little granules, subrounded to subangular; little clay, trace silt; poorly sorted; moist; dark yellowish brown (10YR 3/4).	
					0.0			(2.0-5.0) CLAY, little silt, medium plasticity; little very fine sand, trace granules to medium pebbles, subrounded to subangular; slow dilatancy; soft to medium stiff; dark yellowish brown (10YR 4/6).	
					0.1			NOTE: moist at 3.0' bgs.	
860					0.1			NOTE: some silt at 4.0' bgs.	
5		2	5.0-9.0	3.0				(5.0-6.5) SAND, very fine to medium, little granules to small pebbles, subrounded to subangular; little clay to silt; poorly sorted; wet; yellowish brown (10YR 5/6).	
					0.0			(6.5-17.0) CLAY, little silt, medium to low plasticity; trace very fine sand, trace coarse sand, subangular; slow dilatancy; dry; medium stiff to stiff; dark yellowish brown (10YR 4/6).	
					0.1			NOTE: very slight mottling at with light gray (10YR 7/1) at 7.0' bgs and 8.5' bgs.	
					0.0			NOTE: medium to coarse sand seam; wet at 8.9' bgs.	
855		3	9.0-13.0	5.0				NOTE: medium plasticity; rapid dilatancy; medium stiff to stiff at 11.5' bgs.	
					0.0			NOTE: low plasticity; slow dilatancy; stiff; trace granules, subangular; some silt at 13.0' bgs.	
					0.0			NOTE: high plasticity; rapid dilatancy; soft to medium stiff; brown (10YR 5/3); little very fine sand; mottling with brown and reddish brown at 14.0' bgs.	
850		4	13.0-17.0	4.0					
15					0.0				
					0.0				
					0.0				
								End of Boring 17.0' bgs.	

	Remarks: BGS = Below ground surface Groundwater detected between 5.0'-6.5' and at 8.9' bgs No Odor detected No Staining detected
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Date Start/Finish: 6/1/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450867.78 Easting: 13064807.11 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 862.05 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.3-OT127 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
860		1	0.0-5.0	5.0	NA			(0.0-1.0) CONCRETE	
					0.0			(1.0-6.0) SAND, fine to coarse, trace granule, subrounded to subangular, trace silt, poorly sorted, wet; dark yellowish brown (10 YR 3/4). NOTE: wet from recent rain.	
					0.0			NOTE: some silt, trace clay; dry at 3.0' bgs.	
					0.0			NOTE: color change to very dark grayish brown; wet at 5.0' bgs.	
5					NA				
					0.0				
					0.0			(6.0-9.0) CLAY, little silt, high plasticity; little very fine sand; rapid dilatancy; dry; medium stiff; dark yellowish brown (10YR 4/6) with pale brown (10YR 6/3) mottling.	
855		2	5.0-9.0	3.9				NOTE: soft from 7.3'-7.5' bgs.	
					0.0			NOTE: some very fine sand at 7.9' bgs.	
					0.0			NOTE: medium to coarse sand seam, continues with alternating sand seams with silt and clay from 8.2'-9.0' bgs.	
					0.0			(9.0-10.0) CLAY, little silt, medium plasticity; trace very fine sand; slow to no dilatancy; dry; stiff; dark grayish brown (10YR 4/2).	
10					0.0			(10.0-10.2) SAND, medium to coarse, trace granule, subrounded to subangular; well sorted; wet; gray (10YR 5/1).	
					0.0			(10.2-12.0) SILT, trace clay, high plasticity; some very fine sand; rapid dilatancy; moist; soft; dark grayish brown (10YR 4/2).	
					0.0			NOTE: sand seams; wet at 11.6' bgs and 11.8' bgs.	
850		3	9.0-13.0	3.9				(12.0-17.0) CLAY, little silt, medium plasticity; trace very fine sand; slow to no dilatancy; dry; stiff; dark grayish brown (10YR 4/2).	
					0.0				

	Remarks: BGS = Below ground surface Groundwater detected at 5.0', between 10.0'-10.2', at 11.6' and 11.8' bgs No Odor detected No Staining detected
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Date Start/Finish: 6/1/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450867.78 Easting: 13064807.11 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 862.05 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.3-OT127 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15		4	13.0-17.0	4.5	0.0				
					0.0				
					0.0				
					0.0				
	845							End of Boring at 17.0' bgs.	
20									
	840								
25									
	835								

	Remarks: BGS = Below ground surface Groundwater detected at 5.0', between 10.0'-10.2', at 11.6' and 11.8' bgs No Odor detected No Staining detected
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Date Start/Finish: 5/30/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: Easting: Casing Elevation: Borehole Depth: 17.0' bgs Surface Elevation: Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.3-OW175 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
860		1	0.0-5.0	5.0	NA			(0.0-1.0) CONCRETE	
					2.4	X		(1.0-2.0) SAND, fine, little medium sand, trace granules to small pebbles, subrounded; some clay, medium plasticity; medium stiff; moist; black (10YR 2/1) and gray (10YR 5/1). NOTE: odor.	
					1.1			(2.0-13.0) CLAY, little silt, low to medium plasticity, trace fine sand; no dilatancy; dry; medium stiff to stiff; grayish brown (10YR 5/2). NOTE: odor.	
					2.2				
					2.1			NOTE: some silt at 4.0' bgs.	
5					7.5	X			
		2	5.0-9.0	5.0	0.9			NOTE: no sand; trace granules to small pebbles, subrounded to subangular; dark yellowish brown (10YR 4/6) with some grayish brown (10YR 5/2) mottling at 5.5' bgs.	
855					1.9				
					1.2			NOTE: medium stiff; medium plasticity at 8.5' bgs.	
10					0.3				
		3	9.0-13.0	5.0	0.1			NOTE: very fine to fine sand seam; reddish brown (5YR 4/3); little very fine sand; at 11.0' bgs and 12.5' bgs.	
850					0.1				
					0.0			(13.0-17.0) CLAY, some silt, high plasticity; some very fine sand, little granules to small pebbles, subangular to subround; rapid dilatancy; dry; medium stiff to soft; grayish brown (10YR 5/2).	
15		4	13.0-17.0	5.0	0.0				
					0.0				
					0.0	X			
845								End of Boring 17.0' bgs.	

	Remarks: BGS = Below ground surface No Groundwater detected Odor detected between 2.0'-13.0' bgs No Staining detected
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Date Start/Finish: 6/1/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450823.56 Easting: 13064767.26 Casing Elevation: BA Borehole Depth: 8.0' bgs Surface Elevation: 862.05 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.3-OX123 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
860	1	0.0-4.0	4.0	0.0				(0.0-1.0) SAND, fine to medium, little granules to medium pebbles, subangular; little silt to clay; poorly sorted; wet; grayish brown (10YR 4/3).	
				0.0				(1.0-8.0) GRAVEL, granule to small pebbles, little medium pebble, some very coarse sand; trace silt to clay; dry; very dark gray (10YR 3/1).	
				0.0				NOTE: concrete debris.	
				0.0				NOTE: unable to HA at 5.0' bgs because of debris; will collect in core.	
				0.0				NOTE: went through several feet of debris and layers of concrete; nothing to sample.	
5					NA				
	2	4.0-8.0	1.5		NA				
855					NA				
					NA				
								End of Boring at 8.0' bgs due to refusal.	
10									
850									

	Remarks: BGS = Below ground surface Groundwater detected between 0.0'-1.0' bgs No Odor detected No Staining detected
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Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 450824.26 Easting: 13064776.00 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 861.93 Descriptions By: M. Meckley	Well/Boring ID: SB-A5.3-OX124 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
	860				NA			(0.0-8.0) No Recovery. NOTE: soil not logged.	
					NA				
					NA				
					NA				
5					NA				
	855				NA				
					NA				
					0.0			(8.0-8.5) GRAVEL, medium, angular; well sorted; wet; gray (10YR 5/1).	
					0.0			(8.5-9.0) SAND, fine to medium, little coarse to very coarse sand, subangular to subround; trace silt; poorly sorted; wet; dark yellowish brown (10YR 4/6) with dark gray (10YR 4/1).	
10					23.2			(9.0-11.5) CLAY, some silt, high plasticity; trace very fine sand; rapid dilatancy; moist; soft; dark gray (10YR 4/1). NOTE: slight odor. NOTE: very fine sand seam; wet at 9.5' bgs.	
	850	1	8.0-13.0	1.9	10.6			(11.5-12.1) SAND, very fine to medium; trace silt to clay; poorly sorted; wet; dark gray (10YR 4/1).	
					0.8			(12.1-13.0) CLAY, little silt, medium plasticity; trace fine sand, trace granule, subangular; no dilatancy; dry; medium stiff; dark gray (10YR 4/1). NOTE: sheen; odor detected.	
					12.1			(13.0-15.0) SAND, very fine to medium, trace granule to small pebble, subround to subangular; little clay, trace silt; poorly sorted; wet; dark gray (10YR 4/1).	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Step-out location, first 8.0' not logged Groundwater encountered at 11.8' bgs Strong odor observed at 9.0' and strong odor and sheen observed at 13.0' bgs. Strong odor and sheen observed from purged groundwater Groundwater sample collected from 8.0-12.0' bgs
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Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 450824.26 Easting: 13064776.00 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 861.93 Descriptions By: M. Meckley	Well/Boring ID: SB-A5.3-OX124 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15		2	13.0-17.0	3.0	3.7				
					1.1			(15.0-16.0) CLAY, some silt, high plasticity; little very fine sand, trace fine sand; rapid dilatancy; moist; soft to medium stiff; dark brownish gray (10YR 4/2). NOTE: interbedded very fine to medium sand; wet from 15.0'-16.0' bgs.	
	845				0.1			(16.0-16.8) SAND, fine to medium, little coarse sand, subangular to subround; little silt; poorly sorted; wet; dark brownish gray (10YR 4/2).	
		3	17.0-21.0	0.6	0.2			(16.8-21.0) CLAY, some silt, high plasticity; trace very fine sand; slow dilatancy; dry; soft to medium stiff; dark grayish brown. NOTE: slight darkening to (10YR 3/1) at 16.8' bgs.	
					NA				
20					NA				
					0.0				
								End of boring at 21.0' bgs	
	840								
25									
	835								
30									

	Remarks: BGS = Below ground surface Step-out location, first 8.0' not logged Groundwater encountered at 11.8' bgs Strong odor observed at 9.0' and strong odor and sheen observed at 13.0' bgs. Strong odor and sheen observed from purged groundwater Groundwater sample collected from 8.0-12.0' bgs
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Date Start/Finish: 6/1/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450825.75 Easting: 13064856.27 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 862.09 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.3-OX132 Client: RACER Trust Location: Lansing, MI
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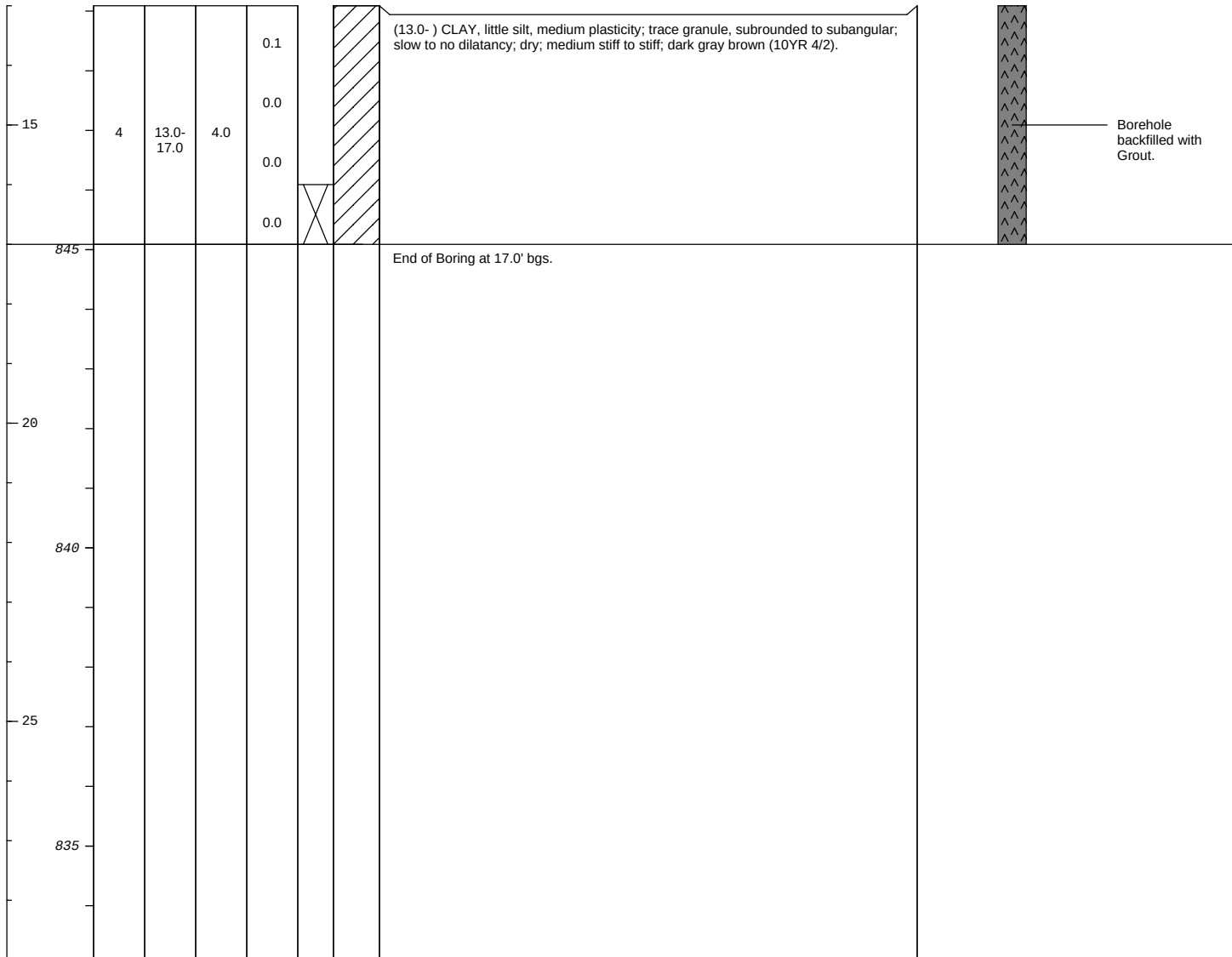
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
860	1	0.0-5.0	5.0	0.0				(0.0-5.0) SAND, medium to very coarse, some granules to large pebble, subangular to subrounded; little clay; poorly sorted; wet; dark yellowish brown (10YR 4/2). Note: FILL, debris.	
				0.1					
				0.1					
				0.0					
				0.0					
5				0.0				(5.0-8.9) SAND, very fine to coarse, trace small pebble, subrounded to subangular; little clay to silt; poorly sorted; wet; dark yellowish brown (10YR 4/6). NOTE: fine to medium sand, trace granule, subrounded to subangular; well sorted; wet; dark gray (10YR 4/1) at 6.0' bgs.	
855	2	5.0-9.0	3.0	0.8				NOTE: sheen observed on macrocore; color very dark gray (10YR 3/1) to black (10YR 2/1) at 7.0' bgs.	
				1.2				NOTE: odor.	
				0.7				(8.9-9.0) CLAY, some silt, high plasticity; little very fine sand, trace granule, subangular; rapid dilatancy; moist, soft; dark gray brown (10YR 4/2).	
				0.1				(9.0-10.8) SAND, very fine to medium, trace granule, subrounded to subangular; poorly sorted; wet; dark gray (10YR 3/1).	
10				0.6				(10.8-11.1) CLAY, some silt, medium plasticity; little very fine sand; rapid dilatancy; dry; medium stiff; dark grayish brown (10YR 4/2).	
	3	9.0-13.0	4.0	1.2				(11.1-11.5) SILT, little clay, high plasticity; trace very fine sand; rapid dilatancy; dry; soft; dark gray (10YR 4/1).	
850				0.0				(11.5-13.0) SAND, very fine to fine, trace granule, subrounded to subangular; poorly sorted; wet; dark gray (10YR 3/1). NOTE: seams of silt from 12.1'-12.7' bgs.	Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 5.0'-8.9', 9.0'-10.8' and 11.5'-13.0' bgs Odor detected at 7.0' bgs Sheen detected between 5.0'-7.0' bgs
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Date Start/Finish: 6/1/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450825.75 Easting: 13064856.27 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 862.09 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.3-OX132 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 5.0'-8.9', 9.0'-10.8' and 11.5'-13.0' bgs Odor detected at 7.0' bgs Sheen detected between 5.0'-7.0' bgs
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Date Start/Finish: 9.17.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450826.9419 Easting: 13065334.58 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 862.07 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A5.3-OX180 Client: RACER Location: RACER Lansing Plant 2
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0					NA			(0.0-1.0') CONCRETE.	
860	1	0.0-5.0	4.0	0.0				(1.0-1.9') SAND, fine to coarse, subangular to subrounded; trace granules to large pebbles, subrounded; poorly sorted; saturated; brown (10YR 4/3).	
				0.0				(1.9-8.0') CLAY, high plasticity; trace fine sand, trace granules, subangular; dry; medium stiff; brown (10YR 4/3).	
				0.0				NOTE: Soft; moist at 4.0' bgs.	
5				0.0					
855	2	5.0-10.0	4.1	0.0					
				0.0					
				0.0				(8.0-20.0) CLAY, high plasticity; trace fine sand, trace granules to small pebbles, angular; dry; stiff; gray (10YR 5/1).	
10				0.0					
850	3	10.0-13.0	3.0	0.0					
				0.0					
				0.0					

	Remarks: bgs = below ground surface Groundwater encountered from 1.0'-1.9' bgs. No odor or staining observed.
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Date Start/Finish: 9.17.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450826.9419 Easting: 13065334.58 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 862.07 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A5.3-OX180 Client: RACER Location: RACER Lansing Plant 2
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15		4	13.0-16.0	3.0	0.0				
					0.0				
845		5	16.0-20.0	4.0	0.0				
					0.0				
					0.0				
					0.0				
					0.0				
20					0.0				
840									
25									
835									

	Remarks: bgs = below ground surface Groundwater encountered from 1.0'-1.9' bgs. No odor or staining observed.
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Date Start/Finish: 5/31/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450795.95 Easting: 13065124.29 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 862.07 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.3-PA159 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
860	1	0.0-5.0	5.0	NA				(0.0-1.4) CONCRETE	
				0.0				(1.4-5.0) CLAY, little silt, medium plasticity; trace very fine to medium sand; slow dilatancy; dry; medium stiff; dark yellowish brown (10YR 4/4). NOTE: little very fine to fine sand, trace granule, subrounded to subangular at 2.0' bgs. NOTE: very light mottling with gray (10YR 5/1) at 3.0' bgs. NOTE: some very fine sand; some silt at 4.0' bgs.	
5				0.0				(5.0-9.0) CLAY, trace silt, low plasticity; trace very fine sand; no dilatancy; very stiff; dark yellowish brown (10YR 4/6) with little gray (10YR 5/1) mottling. NOTE: odor. NOTE: trace granule, subangular at 5.5' bgs. NOTE: small black (10YR 3/1) dots in clay; smears when touched at 6.0' bgs.	
855	2	5.0-9.0	5.0	1.3					
				0.9					
				0.1				NOTE: stiff at 8.5' bgs.	
10				0.1				(9.0-10.0) CLAY, and SILT, no plasticity; trace sand; rapid dilatancy; wet; soft; dark grayish brown (10YR 4/2). NOTE: wet; sheen at 9.0' bgs.	
				0.2				(10.0-11.5) CLAY, some silt, high plasticity; trace very fine sand; rapid dilatancy; soft; grayish brown (10YR 5/2). NOTE: odor. NOTE: some very fine sand; color change to reddish brown (5YR 5/3); medium stiff at 10.5' bgs.	
850	3	9.0-13.0	5.0	0.0				(11.5-17.0) SILT, some clay, high plasticity, rapid dilatancy; dry; soft to medium stiff. NOTE: color change to gray brown (10YR 5/2).	
				0.0					

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected at 9.0' bgs Odor detected between 5.0'-9.0' and 10.0'-11.5' bgs Sheen detected at 9.0' bgs
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Date Start/Finish: 5/31/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450795.95 Easting: 13065124.29 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 862.07 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.3-PA159 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15		4	13.0-17.0	5.0	0.0			NOTE: moist; some very fine sand from 13.0'-14.0' bgs.	
					0.0			NOTE: medium stiff to stiff; medium plasticity; trace granule, subangular at 15.0' bgs.	
					0.0				
					0.0				
845								End of Boring at 17.0' bgs.	
20									
840									
25									
835									

	Remarks: BGS = Below ground surface Groundwater detected at 9.0' bgs Odor detected between 5.0'-9.0' and 10.0'-11.5' bgs Sheen detected at 9.0' bgs
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Date Start/Finish: 9.17.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450788.4003 Easting: 13065250.64 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 861.65 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A5.3-PB172 Client: RACER Location: RACER Lansing Plant 2
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860					NA			(0.0-1.0') CONCRETE.	
	1	0.0-5.0	4.0	0.0				(1.0-4.0') CLAY, high plasticity; trace fine sand, trace granules to small pebbles, subangular; dry; medium stiff; brown (10YR 4/3).	
				0.0					
				0.0					
5				0.0				(4.0-11.5') CLAY, high plasticity; little fine sand, trace granules, subangular; moist; soft; brown (10YR 4/3).	
855	2	5.0-10.0	5.0	0.0					
				0.0					
				0.0					
				0.0					
10				0.0				NOTE: Color change to gray (10YR 5/1) at 10.5' bgs.	
850	3	10.0-15.0	4.8	0.0				(11.5-13.0') SAND, fine; well sorted; saturated; dark grayish brown (10YR 4/2).	
				0.0					

	Remarks: bgs = below ground surface Groundwater encountered from 11.5'-13.0' bgs. No odor or staining observed.
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Date Start/Finish: 5/31/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450776.11 Easting: 13064808.15 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 862.08 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.3-PC127 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
860	1	0.0-5.0	5.0	NA				(0.0-1.0) CONCRETE	
				0.0				(1.0-3.0) SAND, very coarse, some granule to medium pebble, little very fine sand, subangular to subrounded, trace clay; poorly sorted; wet; dark yellowish brown (10YR 4/4).	
				0.0				(3.0-6.0) SAND, very fine to medium, trace granule to small pebble, subrounded to subangular; some silt, little clay; poorly sorted; wet; dark yellowish brown (10YR 4/6).	
5				0.0				(6.0-7.5) CLAY, trace silt, medium plasticity; trace granule, subangular; no dilatancy; dry; medium stiff; dark gray (10YR 4/1) with little dark yellowish brown (10YR 4/6).	
855	2	5.0-9.0	2.6	0.0				NOTE: very fine sand seams with silt from 7.0'-9.0' bgs.	
				2.6				(7.5-9.0) CLAY, some silt, high plasticity; little very fine sand, trace granule, subrounded to subangular; slow dilatancy; dry; soft to medium stiff; dark grayish brown (10YR 4/2).	
				3.7				(9.0-14.0) CLAY, little silt, medium plasticity; little very fine sand, trace granules, subrounded to subangular; no dilatancy; dry; medium stiff; dark grayish brown (10YR 4/2).	
10				0.1					
	3	9.0-13.0	2.9	0.1					
850				0.1					
				0.1					
				0.0					

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 15.0'-15.5' bgs No Odor detected No Staining detected
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Date Start/Finish: 5/31/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450776.11 Easting: 13064808.15 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 862.08 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.3-PC127 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15		4	13.0-17.0	2.8	NA			(14.0-17.0) CLAY, some silt, high plasticity; little very fine to fine sand, trace medium pebble, subrounded to subangular; rapid dilatancy; dry; medium stiff; dark grayish brown (10YR 4/2) with some reddish brown (5YR 5/2).	
					NA			NOTE: some fine to very coarse sand; wet from 15.0'-15.5' bgs.	
					NA			NOTE: little very fine to medium sand; dry at 16.0' bgs.	
	845				NA			End of Boring at 17.0' bgs.	
20									
	840								
25									
	835								

	Remarks: BGS = Below ground surface Groundwater detected between 15.0'-15.5' bgs No Odor detected No Staining detected
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Date Start/Finish: 9.17.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450753.027 Easting: 13065124.34 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 862.04 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A5.3-PF159 Client: RACER Location: RACER Lansing Plant 2
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0					NA			(0.0-2.3') CONCRETE.	
860					NA				
		1	0.0-5.0	2.7	0.0			(2.3-13.1') SAND, fine, trace small pebbles, subrounded; well sorted; moist; brown (10YR 4/3).	
					0.0			NOTE: Saturated at 3.5' bgs.	
5					0.0			NOTE: Poor recovery from 5.0'-10.0' bgs.	
					NA				
855		2	5.0-10.0	0.8	0.0				
					NA				
					NA				
10					NA				
					0.0			NOTE: Fining upward; sand becomes medium by 11.0' bgs.	
					0.0				
850		3	10.0-15.0	4.8	0.0			(13.1-13.5') PEBBLES, small to large, subrounded; little granules, subrounded to	

	Remarks: bgs = below ground surface Groundwater encountered at 3.5' bgs and from 13.1'-13.5' bgs. No odor or staining observed.
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Date Start/Finish: 9.17.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450753.027 Easting: 13065124.34 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 862.04 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A5.3-PF159 Client: RACER Location: RACER Lansing Plant 2
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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					0.0			subangular; little fine to medium sand; poorly sorted; saturated; brown (10YR 4/3).	
					0.0			(13.5-28.0') CLAY, high plasticity; trace fine sand, trace granules to small pebbles, angular; dry; medium stiff; gray (10YR 5/1).	
15					0.0				
	845	4	15.0-19.0	4.0	0.0				
					0.0				
					0.0				
					0.0				
20					0.0				
		5	19.0-23.0	4.0	0.0				
	840				0.0				
					0.0				
					0.0				
25					0.0				
		6	23.0-27.0	4.0	0.0				
					0.0				
					0.0			NOTE: Stiff at 26.0' bgs.	
	835				0.0				
		7	27.0-30.0	2.5	0.0			(28.0-30.0') CLAY, high plasticity; little fine sand; moist; soft; gray (10YR 5/1).	
					0.0				

	Remarks: bgs = below ground surface Groundwater encountered at 3.5' bgs and from 13.1'-13.5' bgs. No odor or staining observed.
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Date Start/Finish: 9.17.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450753.027 Easting: 13065124.34 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 862.04 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A5.3-PF159 Client: RACER Location: RACER Lansing Plant 2
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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30					0.0			End of boring at 30.0' bgs.	
35									
40									
45									

	Remarks: bgs = below ground surface Groundwater encountered at 3.5' bgs and from 13.1'-13.5' bgs. No odor or staining observed.
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Date Start/Finish: 5/23/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451584.32 Easting: 13065483.94 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 860.69 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.4-LZ195 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	860	1	0.0-5.0	5.0	1.1			(0.0-0.7) CONCRETE	
					0.3			(0.7-1.0) SAND, fine to medium, some granules to medium pebbles, subrounded to subangular; trace clay; poorly sorted; dry; dark brown (10YR 3/2).	
					0.2			(1.0-7.0) SAND, very fine; little silt, trace clay; well sorted; dry; very dark brown (10YR 2/2).	
					0.2			NOTE: moist; brown (10YR 4/3) at 3.0' bgs.	
					0.1			NOTE: wet; trace coarse sand, subangular at 4.0' bgs.	
5	855	2	5.0-9.0	3.6	0.0			NOTE: very fine to fine sand only at 6.7' bgs.	
					0.0			(7.0-8.0) SAND, coarse to very coarse, some granules to small pebbles, trace very fine sand, subrounded to subangular; poorly sorted; wet; yellow brown (10YR 4/6).	
					0.0			(8.0-15.5) CLAY, little silt, medium plasticity; rapid dilatancy; dry; soft to medium stiff; grayish brown (10YR 5/2).	
10	850	3	9.0-13.0	4.8	0.0			NOTE: no silt from 10.5'-11.0' bgs.	
					0.0			NOTE: trace gravel to small pebbles, subrounded to subangular at 11.0' bgs.	
					0.0			NOTE: seams of very fine sand; little silt; well sorted; dry; dark reddish gray (5YR 4/2) from 11.5'-12.4' bgs.	
					NA			NOTE: small lens of dark reddish gray (2.5YR 4/1) at 13.2' bgs.	
					NA			NOTE: (5YR 4/2) at 13.8' bgs.	
15	845	4	13.0-17.0		NA			(15.5-17.0) CLAY, medium plasticity; no dilatancy; dry; medium stiff to stiff; dark gray.	
					NA			NOTE: lens of fine to medium sand; wet at 15.5' bgs.	
								End of Boring 17.0' bgs	

	Remarks: BGS = Below ground surface Groundwater detected between 7.0'-8.0' and at 15.5' bgs No Odor or Staining detected
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Date Start/Finish: 5/21/12 Drilling Company: Stock Driller's Name: Chris B Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451563.52 Easting: 13065463.83 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 861.14 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.4-MB193 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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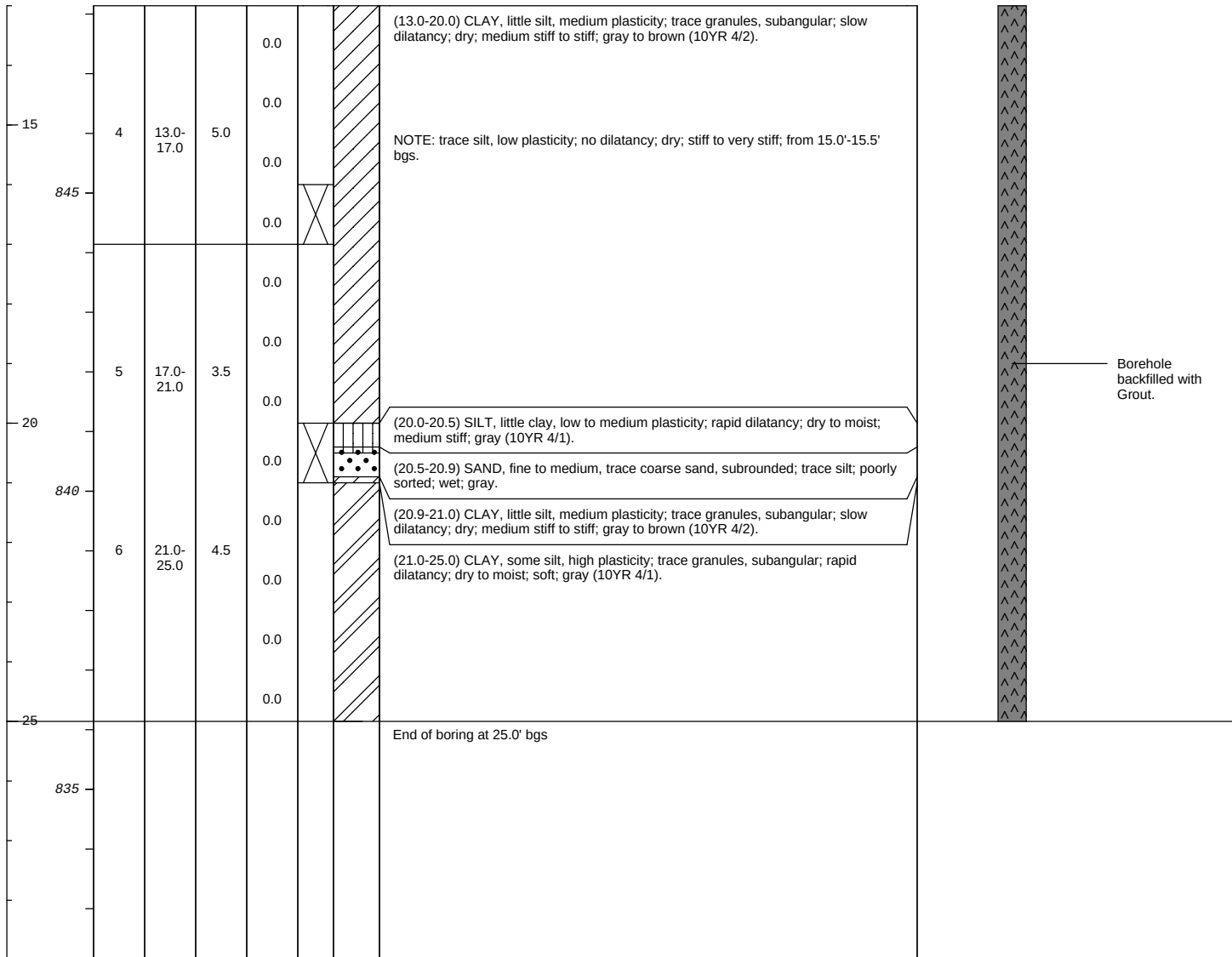
0									
860		1	0.0-5.0	5.0	0.0			(0.0-2.0) SAND, very fine to fine, trace granules to small pebbles, angular to subrounded; little silt; poorly sorted; dry; brown (10YR 3/3). NOTE: little clay, high plasticity; dry; soft; at 1.0' bgs.	
					0.0			(2.0-4.0) SAND, fine to medium, trace granules, subangular to subrounded; well sorted; dry; brown. NOTE: transitions to medium to coarse sand at 3.0' bgs.	
					0.0			(4.0-5.0) SILT, some clay, high plasticity; rapid dilatancy; moist; soft; brown (10YR 5/2).	
5					0.0			(5.0-6.0) SAND, very fine to fine, trace medium sand to granules, subangular to subrounded; little silt, some clay, soft; poorly sorted; moist; dark brown (10YR 3/2).	
855		2	5.0-9.0	2.0	0.0			(6.0-6.5) SAND, coarse to very coarse, trace small pebbles, subrounded; well sorted; wet; brown (10YR 3/2).	
					0.0			(6.5-6.8) SILT, some clay, high plasticity; little very fine to fine sand; rapid dilatancy; moist; soft; brown (10YR 4/3).	
					0.0			(6.8-8.0) SAND, coarse to very coarse, trace small pebbles, subrounded; well sorted; wet; brown (10YR 3/2).	
					0.0			NOTE: wood from 7.0'-7.7' bgs.	
					0.0			(8.0-9.0) CLAY, little silt, high plasticity; trace very fine sand; rapid dilatancy; soft; moist; brown to gray (10YR 4/2).	
10					0.0			NOTE: small very coarse sand seam at 8.5' bgs.	
850		3	9.0-13.0	4.6	0.0			(9.0-11.2) CLAY, little silt; medium plasticity; trace granules, subangular to subround; slow dilatancy; dry; medium stiff to stiff; gray to brown (10YR 3/2).	
					0.0			(11.2-11.8) CLAY, little silt, high plasticity; trace very fine sand; rapid dilatancy; soft; moist; brown to gray (10YR 4/2).	
					0.0			(11.8-13.0) SAND, very coarse, some granules to medium pebbles, subangular to subrounded; trace silt; poorly sorted; wet; brown.	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 6.0'-6.5', 6.8'-8.0', 11.8'-13.0' and 20.5'-20.9' bgs No Odor or Staining detected
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Date Start/Finish: 5/21/12 Drilling Company: Stock Driller's Name: Chris B Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451563.52 Easting: 13065463.83 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 861.14 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.4-MB193 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 6.0'-6.5', 6.8'-8.0', 11.8'-13.0' and 20.5'-20.9' bgs No Odor or Staining detected
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Date Start/Finish: 5/21/12 Drilling Company: Stock Driller's Name: Chris B Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451563.42 Easting: 13065502.80 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.03 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.4-MB197 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860		1	0.0-5.0	5.0	1.3	X	 (0.0-3.0) SAND, very fine to fine, trace granules, subangular; some silt; poorly sorted; dry; dark brown (10YR 3/1). NOTE: trace clay at 1.0' bgs. NOTE: little clay; trace small to medium pebbles, subrounded; at 2.0' bgs.		
					0.2				
					0.2				
					0.1		 (3.0-4.0) CLAY, some silt, high plasticity; trace granules, subangular to subround; rapid dilatancy; dry; soft; brown (10YR 4/2).		
					0.1		 (4.0-6.0) CLAY, little silt, high plasticity; little very fine sand, trace granules, subangular to subround; rapid dilatancy; moist; soft; brown (10YR 4/4).		
5					0.0		 (6.0-6.7) SAND, very fine to medium, trace very coarse sand; trace small to medium pebbles, angular to subrounded; little clay to silt; poorly sorted; wet; brown (10YR 4/2).		
855		2	5.0-9.0	4.0	0.0		 (6.7-9.0) SAND, very fine to fine, trace medium to coarse sand, trace granules to small pebbles, subangular to subrounded; little silt, trace clay; poorly sorted; wet; brown (10YR 4/2).		
					0.0				
					0.0	X	NOTE: color change to dark brown to black; from 8.3'-9.0' bgs.		
10					0.0		 (9.0-16.0) CLAY, little silt, medium plasticity; trace coarse sand, trace small pebbles, subround; rapid dilatancy; moist; medium stiff; brown (10YR 4/2).		
850		3	9.0-13.0	1.1	0.0				
					0.0				
					0.0				
15					0.0				
845		4	13.0-17.0	1.7	0.0		NOTE: little very fine sand at 15.0' bgs.		
					0.0				
					0.1	X	 (16.0-17.0) CLAY, trace silt, low plasticity; trace coarse sand; slow dilatancy; dry; medium stiff to very stiff; gray to brown (10YR 4/1).		
							End of boring at 17.0' bgs		

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 6.0'-6.7' and 6.7'-9.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/22/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 451549.71 Easting: 13065485.78 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.78 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.4-MD195 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0								(0.0-0.4) NA - unable to collect.	
860		1	0.0-5.0	5.0	0.9			(0.4-1.0) CONCRETE	
					4.5			(1.0-3.0) SAND, very fine, little granules and pieces of concrete, subrounded to subangular; little silt; poorly sorted; dry; light grayish brown (10YR 6/2).	
					0.9			NOTE: trace clay at 2.0' bgs.	
					0.1			(3.0-4.0) SAND, very fine, trace coarse sand, subangular to subrounded; little silt, trace clay; poorly sorted; dry; dark brown (10YR 3/2).	
5					0.1			(4.0-5.0) CLAY, some silt, high plasticity; little very fine sand, trace granules; rapid dilatancy; moist; soft; yellowish brown (10YR 5/6).	
855		2	5.0-9.0	4.0	0.0			(5.0-7.5) SAND, fine to medium, trace coarse sand, trace granules to small pebbles, subangular; little silt, trace clay; poorly sorted; wet; yellowish brown (10YR 5/4).	
					0.1			NOTE: increasing pebbles size to large, subangular to subrounded towards 7.5' bgs.	
					0.1			NOTE: thin clay seam at 6.7' bgs.	
					0.0			(7.5-7.7) CLAY, little silt, low to no plasticity; trace very fine sand; no dilatancy; dry; very stiff to stiff; yellowish brown (10YR 4/4).	
					0.0			(7.7-14.0) CLAY, little silt, low plasticity; trace granules, subangular; slow dilatancy; dry; medium stiff to stiff; grayish brown (10YR 4/1).	
10					0.0			NOTE: soft to medium stiff; medium plasticity; slow dilatancy; little very fine sand at 9.0' bgs.	
850		3	9.0-13.0	4.8	0.0			NOTE: consistency changes back to the same as 7.7' bgs at 10.0' bgs.	
					0.0			NOTE: little silt, medium plasticity; no dilatancy; medium stiff; trace coarse to very coarse sand; subangular; dry; grayish brown (10YR 4/1) at 12.0' bgs.	
					0.0			NOTE: trace fine to medium sand at 13.0' bgs.	
15					0.0			(14.0-16.0) CLAY, trace silt, medium plasticity; trace coarse to very sand, subangular; no dilatancy; dry; medium stiff; grayish brown (10YR 4/1).	
845		4	13.0-17.0	4.8	0.0			(16.0-17.0) CLAY, little silt, medium to high plasticity; little very fine sand; rapid dilatancy; dry; soft to medium stiff; grayish brown (10YR 3/1).	
					0.0			End of boring at 17.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 5.0'-7.5' bgs No Odor or Staining detected
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Date Start/Finish: 5/29/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451208.39 Easting: 13065466.51 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 864.38 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.5-NL193 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0								(0.0-0.3) CONCRETE	
		1	0.0-5.0	5.0	0.0			(0.3-4.0) SAND, very fine to medium, some granule to small pebble, subrounded to subangular; poorly sorted; dry; yellowish brown (10YR 5/4). NOTE: trace clay at 1.0' bgs. NOTE: fine to medium sand; trace granule to small pebble at 2.0' bgs. NOTE: little clay; little silt; moist; brown (10YR 4/3) at 3.0' bgs.	
					0.0				
					0.0				
860					0.1			(4.0-8.2) SAND, very fine to fine, trace medium sand; some clay to silt; poorly sorted; wet; dark yellowish brown (10YR 4/6). NOTE: little coarse sand at 5.0' bgs.	
		2	5.0-9.0	3.7	0.0			NOTE: no clay; trace silt; medium sand at 7.0' bgs.	
					0.0				
					0.0				
855					0.0			(8.2-14.5) CLAY, medium to low plasticity, trace granules, subangular; slow dilatancy; dry; stiff; very dark grayish brown (10YR 3/2). NOTE: little very fine sand at 9.0' bgs. NOTE: trace very fine sand at 10.0' bgs.	
		3	9.0-13.0	3.0	0.0				
					0.0				
					0.0				
850					0.0			(14.5-15.0) SAND, medium to coarse, some fine sand, trace granules, subangular; trace clay; poorly sorted; wet; dark grayish brown (10YR 4/2).	
		4	13.0-17.0	4.0	0.0			(15.0-17.0) CLAY, little silt, medium plasticity; trace granules, subangular to subround; rapid to slow dilatancy; stiff to medium stiff; very dark grayish brown (10YR 3/2). NOTE: color change to reddish brown (10YR 4/3) at 15.5' bgs and 16.5' bgs.	
					0.0				
					0.0				
					0.0			End of Boring 17.0' bgs.	

	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-8.2' and 14.5'-15.0' bgs No Odor detected No Staining detected
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Date Start/Finish: 5/24/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451195.31 Easting: 13065406.09 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.88 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.5-NM187 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0								(0.0-0.7) CONCRETE	
860	1	0.0-5.0	5.0	1.3	NA	X		(0.7-3.0) SAND, fine to medium, little coarse sand, trace medium to large pebble, subangular; little clay; poorly sorted; dry; dark brown with very dark brown (10YR 3/3 to 10YR 3/2). Note: little silt at 2.0' bgs.	
				1.3				(3.0-7.0) SAND, very fine; little silt, some clay; well sorted; dark grayish brown (10YR 4/2). Note: color change to dark yellowish brown (10YR 4/4) at 4.0' bgs.	
5				1.5					
				2.2					
855	2	5.0-9.0	3.4	0.0				(7.0-10.0) SAND, medium, little coarse to very coarse sand, trace granule, subrounded to subangular; poorly sorted; dark yellowish brown (10YR 4/4). Note: color change to grayish brown (10YR 5/2) at 7.8' bgs. Note: trace clay lens at 8.8' bgs. Note: little clay at 9.0' bgs.	Borehole backfilled with Grout.
				0.0		X			
				0.0				(10.0-17.0) CLAY, little silt, low plasticity; trace very fine sand, trace small to medium pebbles, subangular; slow dilatancy; dry; medium stiff to stiff; dark gray (10YR 4/1). Note: little very fine sand at 12.0' bgs.	
10	3	9.0-13.0	2.8	0.0					
				0.0					
				0.0					
15	4	13.0-17.0	4.0	0.0				Note: no dilatancy at 15.0' bgs.	Borehole backfilled with Grout.
				0.0		X			
845				0.0				End of Boring 17.0' bgs	

	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Date Start/Finish: 5/24/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451156.19 Easting: 13065387.51 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 862.24 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.5-NQ185 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
860	1	0.0-5.0	5.0	0.0				(0.0-0.5) ASPHALT and CONCRETE.	
				0.1				(0.5-8.0) SAND, fine, trace coarse sand, subangular to subrounded; trace clay; well sorted; dry; yellow brown (10YR 4/4).	
				0.0				Note: trace small to large pebble, subrounded to subangular at 1.0' bgs.	
				0.0				Note: trace silt at 2.0' bgs.	
5				0.0					
855	2	5.0-9.0	3.5	0.0					
				0.0				(8.0-8.5) CLAY, some silt, high plasticity, little very fine sand; rapid dilatancy; moist; soft; gray to green (10YR 5/0).	
				0.0				Note: trace small pebble, subrounded at 8.3' bgs.	
10				0.0				(8.5-10.5) SAND, medium to very coarse, little granule to small pebble, subround to subangular; poorly sorted; wet; yellow brown (10YR 4/6).	
				0.0				Note: color change to dark grayish brown (10YR 4/2) at 9.0' bgs.	
850	3	9.0-13.0	3.0	0.0				(10.5-17.0) CLAY, little silt, medium plasticity; trace coarse to very coarse sand; rapid dilatancy; soft to medium stiff; dark grayish brown (10YR 4/2).	
				0.0				Note: some silt; trace very fine sand at 12.0' bgs.	
15				0.0					
	4	13.0-17.0	2.0	0.0					
				0.0					
845				0.0				End of Boring 17.0' bgs	

	Remarks: BGS = Below ground surface Groundwater detected between 8.5'-10.5' bgs No Odor or Staining detected
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Date Start/Finish: 5/25/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451127.92 Easting: 13065497.43 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 863.39 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.5-NT196 Client: RACER Trust Location: Lansing, MI
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DEPTH
ELEVATION
Sample Run Number
Sample/Int/Type
Recovery (feet)
PID Headspace (ppm)
Analytical Sample
Geologic Column
Stratigraphic Description
Well/Boring Construction

Depth (ft)	Soil Type	Moisture (%)	Plasticity (%)	Grain Size (%)	Notes
0.0					
0.5					
1.0					
1.5					
2.0					
2.5					
3.0					
3.5					
4.0					
4.5					
5.0					
5.5					
6.0					
6.5					
7.0					
7.5					
8.0					
8.5					
9.0					
9.5					
10.0					
10.5					
11.0					
11.5					
12.0					
12.5					
13.0					
13.5					
14.0					
14.5					
15.0					
15.5					
16.0					
16.5					
17.0					

	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-5.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/24/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451118.12 Easting: 13065387.17 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 860.36 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.5-NU185 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	860	1	0.0-5.0	5.0	NA			(0-0.7) ASPHALT (0.7-1.0) SAND, fine to medium, little granule, subangular to subrounded; little silt; dry; dark brown (10YR 3/3). (1.0-2.0) No Recovery (2.0-7.5) SAND, very fine to fine, little coarse to very coarse sand, subrounded to subangular; little silt; poorly sorted; dry; dark yellowish brown (10 YR 4/4). Note: trace coarse to very coarse sand; trace clay; moist at 3.0' bgs.	
5	855	2	5.0-9.0	2.8	0.0			Note: little small to medium pebble, subrounded at 7.0' bgs. (7.5-8.5) GRAVEL, small to medium pebbles, little coarse sand, subrounded; trace silt; wet; dark gray (10YR 4/1). Note: very dark gray to black (10YR 2/1); odor at 8.0' bgs.	
10	850	3	9.0-13.0	1.0	NA			(8.5-17.0) CLAY, little silt, low plasticity; trace very fine sand; dry; stiff to very stiff; very dark gray, (10YR 2/1). Note: some silt, medium stiff to stiff; trace small pebble, subangular at 9.0' bgs. Note: trace coarse sand, subangular to subrounded at 11.0' bgs.	Borehole backfilled with Grout.
15	845	4	13.0-17.0	4.0	0.0				Borehole backfilled with Grout.
					0.0			End of Boring 17.0' bgs	

	Remarks: BGS = Below ground surface Groundwater detected between 7.5'-8.5' bgs Odor detected at 8.0' bgs No Staining detected
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Date Start/Finish: 5/29/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451098.47 Easting: 13065475.94 Casing Elevation: NA Borehole Depth: 14.0' bgs Surface Elevation: 862.54 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.5-NW194 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
860		1	0.0-5.0	5.0	0.5	X		(0.0-0.3) ASPHALT	
					0.1			(0.3-5.0) SAND, fine to medium, little very coarse sand, trace granules, subrounded to subangular; trace clay; poorly sorted; dry; brown (10YR 4/4).	
					0.1				
					0.5			NOTE: very fine to fine sand, some medium sand, little coarse sand, trace granules at 3.0' bgs.	
5					0.4			NOTE: medium sand, trace coarse sand; well sorted; trace clay; moist; dark yellowish brown (10YR 4/6) at 4.0' bgs.	
		2	5.0-9.0	3.0	0.0			(5.0-14.0) SAND, fine, some medium sand, trace coarse sand to granules, subangular to subrounded; little silt, trace clay; poorly sorted; moist; dark yellowish brown (10YR 4/6).	
855					0.0			NOTE: wet; color change to dark grayish brown at 6.0' bgs.	
					1.6	X		NOTE: strong odor at 7.0' bgs.	
					0.1			NOTE: color change to very dark gray to black (10YR 3/2 to 10YR 2/1); trace small pebbles, subangular from 7.5'-8.5' bgs.	
10					0.0				
		3	9.0-14.0	2.5	0.0				
850					0.2	X			
					0.0			NOTE: odor at 12.3' bgs.	
					0.0			NOTE: medium to coarse sand; very dark gray (10YR 3/1); odor at 13.0' bgs.	
15								End of Boring 14.0' bgs	

	Remarks: BGS = Below ground surface Groundwater detected at 6.0' bgs Odor detected at 7.0' and 12.3' bgs No Staining detected
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Date Start/Finish: 5/25/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451095.33 Easting: 13065485.22 Casing Elevation: NA Borehole Depth: 14.0' bgs Surface Elevation: 862.71 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.5-NW195 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
		1	0.0-5.0	5.0	0.0			(0.0-0.3) ASPHALT	
					0.9	X		(0.3-1.0) SAND, medium to coarse, little granule to medium pebbles, trace fine sand, subrounded to subangular; poorly sorted; dry; dark yellowish brown (10YR 3/6).	
860					0.6			(1.0-2.0) SAND, fine to medium, little coarse sand, trace granules to small pebbles, subrounded to subangular; trace clay; poorly sorted; dark yellowish brown (10R 3/4).	
					2.0			(2.0-12.5) SAND, very fine to fine, trace coarse sand; trace silt to clay; well sorted; moist; dark yellowish brown.	
5					0.6			NOTE: trace small pebbles, subrounded at 3.0' bgs. NOTE: wet; fine to medium sand, little very fine sand at 4.0' bgs.	
		2	5.0-9.0	4.0	0.0			NOTE: trace silt at 5.0' bgs. NOTE: few small clay lenses from 5.0'-8.0' bgs.	
					0.0				
855					0.1			NOTE: color change to very dark grayish brown (10YR 3/2); odor at 7.5' bgs.	
					1.5	X			
10					NA			NOTE: color change to brown (10YR 4/3) at 9.5' bgs.	
					NA				
		3	9.0-14.0		NA			NOTE: odor; color change to very dark gray (10YR 3/2) from 12.0'-12.5' bgs.	
850					NA	X		(12.5-13.0) SAND, very fine to fine, trace medium sand, trace granules, subrounded; little silt, trace clay; poorly sorted; wet; dark brown (10YR 3/5).	
					NA			(13.0-14.0) SAND, medium to coarse, some very coarse sand, subangular to subrounded; well sorted; wet; dark gray (10YR 4/3).	
15								End of Boring 14.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected at 4.0' and between 12.5'-14.0' bgs Odor detected at 7.5' and between 12.0'-12.5' bgs No Staining detected
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Date Start/Finish: 5/24/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451088.42 Easting: 13065417.26 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.93 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.5-NX188 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0								(0.0-0.2) ASPHALT	
								(0.2-1.0) CONCRETE	
								(1.0-5.0) SAND, fine; trace clay; well sorted; dry; yellowish brown (10YR 5/4).	
860		1	0.0-5.0	5.0	0.0			NOTE: trace very coarse sand, subangular at 2.0' bgs.	
					0.1			NOTE: little coarse sand; trace silt; moist; dark yellowish brown (10YR 4/4) at 3.0' bgs.	
					0.0			NOTE: little granule to small pebble, subangular; wet at 4.0' bgs.	
					0.1			(5.0-5.5) SAND, very fine, trace coarse sand; little silt, trace clay; poorly sorted; wet; yellowish brown (10YR 4/4).	
5					0.0			(5.5-7.0) GRAVEL, medium to large pebbles, little small pebbles, subrounded to subangular; well sorted; wet.	
					0.0			NOTE: small to medium pebble, little granule, trace coarse to very coarse sand at 6.5' bgs.	
855		2	5.0-9.0	2.2	0.0			(7.0-9.0) CLAY, little silt, high plasticity, trace very fine sand; rapid dilatancy; dry; soft to medium stiff; gray brown (10YR 4/2).	
					0.0			NOTE: small sand lens; gray (10YR 5/1) at 7.2' bgs.	
					0.0			NOTE: trace small pebble, subangular; dark brown (10YR, 3/3) at 7.5' bgs.	
					0.0			(9.0-16.0) CLAY, little silt, medium plasticity; little very fine sand, trace coarse sand, subangular to subround; dry; rapid dilatancy; stiff; dark grayish brown (10YR 4/2).	
10					0.0				
850		3	9.0-13.0	1.0	NA				
					NA				
					0.0				

	Remarks: BGS = Below ground surface Groundwater detected at 4.0' and between 5.0'-7.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/24/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451088.42 Easting: 13065417.26 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.93 Descriptions By: Megan Meckley	Well/Boring ID: SB-A5.5-NX188 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15		4	13.0-17.0	4.0	0.0			NOTE: some very fine sand; soft at 13.0' bgs.	
					0.0			NOTE: medium stiff to stiff; no sand at 15.5' bgs.	
	845				0.0			(16.0-17.0) CLAY, trace silt, low plasticity, trace granules, subangular; no dilatancy; dry; very stiff; dark gray (10YR 4/1).	Borehole backfilled with Grout.
								End of Boring 17.0' bgs	
20									
	840								
25									
	835								

	Remarks: BGS = Below ground surface Groundwater detected at 4.0' and between 5.0'-7.0' bgs No Odor or Staining detected
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Date Start/Finish: 6/7/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451234.80 Easting: 13065601.81 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 865.58 Descriptions By: M. Meckley	Well/Boring ID: SB-A5.6-NI207 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	865	1			NA			(0.0-0.9) CONCRETE	
		2	0.0-5.0	5.0	0.0			(0.9-17) CLAY, little silt, high plasticity; some fine to coarse sand, trace granule, subrounded to subangular; no dilatancy; dry; medium stiff; dark grayish brown (10YR 4/2).	
					0.0			NOTE: little very fine sand at 3.0' bgs.	
					0.0			NOTE: brown (10YR 4/3) at 4.0' bgs.	
5	860		5.0-9.0	5.0	0.0			NOTE: medium plasticity, stiff, yellowish brown (10YR 5/6) at 6.0' bgs.	
					0.0			NOTE: very fine sand seams at 9.0' bgs.	
10	855	3	9.0-13.0	3.9	0.0			NOTE: dark grayish brown (10YR 4/2) at 13.0' bgs.	
		4	13.0-17.0	4.1	0.0				
15	850				0.0				
					0.0			End of boring at 17.0'bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected
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Date Start/Finish: 5/29/12 Drilling Company: Stock Driller's Name: Jake / Ernie Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451167.03 Easting: 13065771.55 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 866.75 Descriptions By: S. Stelter	Well/Boring ID: SB-A5.6-NP224 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
865	1	0.0-5.0	5.0	NA	12.2			(0.0-0.7) CONCRETE	
					6.2			(0.7-6.0) SAND, medium to coarse, trace fine sand, angular; poorly sorted; moist; very dark gray (10YR 3/1). NOTE: FILL.	
					0.3				
					0.0				
5					0.0			NOTE: gravel seam, angular; saturated from 5.0'-6.0'.	
860	2	5.0-10.0	5.0		0.0			(6.0-17.0) SAND; and CLAY, little silt; moist; soft; very dark gray (10YR 3/1). NOTE: mixed organic seams.	
					0.0				
					0.0				
					0.0				
10					0.0				
855	3	10.0-15.0	5.0		0.0				
					0.0				

	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Date Start/Finish: 5/29/12 Drilling Company: Stock Driller's Name: Jake / Ernie Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451167.03 Easting: 13065771.55 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 866.75 Descriptions By: S. Stelter	Well/Boring ID: SB-A5.6-NP224 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	850	4	15.0-20.0	5.0	0.0				
					0.0				
					0.0				
					0.0				
					0.0			(17.0-20.0) CLAY, trace silt; some sand, trace gravel to small pebbles, subangular; moist; gray (10YR 5/1). NOTE: TILL.	
					0.0				
					0.0				
20								End of Boring 20.0' bgs	
	845								
25									
	840								

	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Date Start/Finish: 6/7/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451160.58 Easting: 13065611.57 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 867.16 Descriptions By: M. Meckley	Well/Boring ID: SB-A5.6-NQ208 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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870									
0		1			NA			(0.0-1.0) CONCRETE	
865		2	0.0-5.0	5.0	0.0			(1.0-5.0) SAND, fine to medium, little coarse to very coarse sand, little granule to medium pebble, subrounded to subangular; trace silt; poorly sorted; dry; brown (10YR 4/3).	
					0.1				
					0.2				
5					0.5				
			5.0-9.0	3.6	0.2			(5.0-7.5) CLAY, trace silt, high plasticity; trace medium sand; rapid dilatancy; dry; soft to medium stiff; dark yellowish brown (10YR 4/4).	
					0.0			NOTE: dark gray (10YR 4/1) and black (10YR 2/1) at 6.8' bgs.	
860					0.1			(7.5-8.9) SILT, some clay, high plasticity; little very fine sand, trace granule, subangular; rapid dilatancy; moist; soft; very dark gray (10YR 3/1).	
					0.0				
10		3	9.0-13.0	3.8	0.1			(8.9-17) CLAY, little silt, low plasticity; trace very fine sand, trace granule, subangular to subrounded; no dilataney; dry; stiff; yellowish brown (10YR 5/8) with gray mottling (10YR 5/1).	
					0.1				
855					0.0				
					0.0			NOTE: trace silt, medium plasticity; no sand; dark grayish brown (10YR 4/2) at 13.0' bgs.	
15		4	13.0-17.0	3.8	0.0				
					0.0				
					0.0				
850					0.0			End of boring at 17.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater encountered from 7.5-8.9' bgs No Odor or Staining detected
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Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A5.6-NT220

Project Name: RACER Lansing Plants

Date Drilled: 6/4/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0 - 0.9) CONCRETE		-	0.0	
2		SP- (0.9 - 7.0) SAND fine to medium; well sorted; moist; brown (10YR 4/3). NOTE: FILL.		-	0.0	
				-	0.0	
4				-	0.0	
				-	0.0	
6		NOTE: Black staining; sweet odor from 5.0-7.0' bgs.		-	0.0	
				-	0.0	
			NT-220 6.0' - 7.0'	-	0.0	
8		SC- (7.0 - 8.5) CLAY and fine sand with trace coarse sand; subangular; moist; soft; (10YR 4/1 Dark Grey)		-	0.0	
				-	0.0	
10		CH- (8.5 - 20.0) CLAY (8.5-20.0) CLAY, high plasticity; little fine sand, trace granules to small pebbles, subangular; dry; stiff; brown (10YR 4/3). NOTE: Organic debris from 8.5-10.5' bgs.		-	0.0	
			NT-220 10.0' - 11.0'	-	0.0	
12		NOTE: Greenish discoloration from 10.0-11.0' bgs.		-	0.0	
				-	0.0	
14		NOTE: Transition to dark gray (10YR 4/1) at 16.0' bgs.		-	0.0	
				-	0.0	
16				-	0.0	
				-	0.0	
18				-	0.0	
				-	0.0	
20			NT-220 19.0' - 20.0'	-	0.0	

Completion Notes: End of Boring at 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 5/25/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451126.09 Easting: 13065892.27 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 869.86 Descriptions By: A.Villhaner	Well/Boring ID: SB-A5.6-NT236 Client: RACER Trust Location: Lansing, MI
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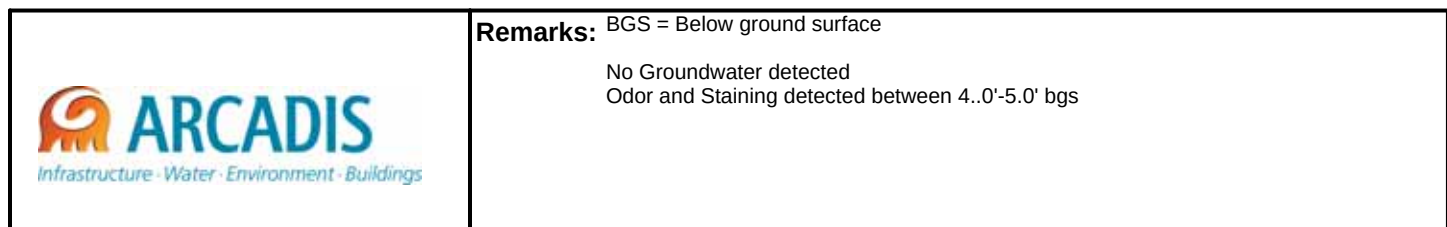
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	870								
		1	0.0-5.0	4.1	NA			(0.0-0.9) CONCRETE	
					0.0			(0.9-5.0) SAND, fine to medium; well sorted; dry; dark yellowish brown (10YR 4/4). NOTE: FILL.	
					0.0				
					0.0				
					0.0			NOTE: Black staining; slight odor from 4.0'-5.0' bgs.	
5	865	2	5.0-10.0	3.5				(5.0-11.5) CLAY, high plasticity; some fine sand, trace granules to small pebbles, subangular; moist; soft; brown (10YR 4/3).	
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
10	860	3	10.0-15.0	3.5				(11.5-20.0) CLAY, high plasticity; little fine sand, trace granules to small pebbles, subangular; dry; stiff dark gray (10YR 4/1). NOTE: TILL.	
					0.0			NOTE: Greenish discoloration from 12.0'-13.0' bgs.	

Borehole backfilled with Grout.

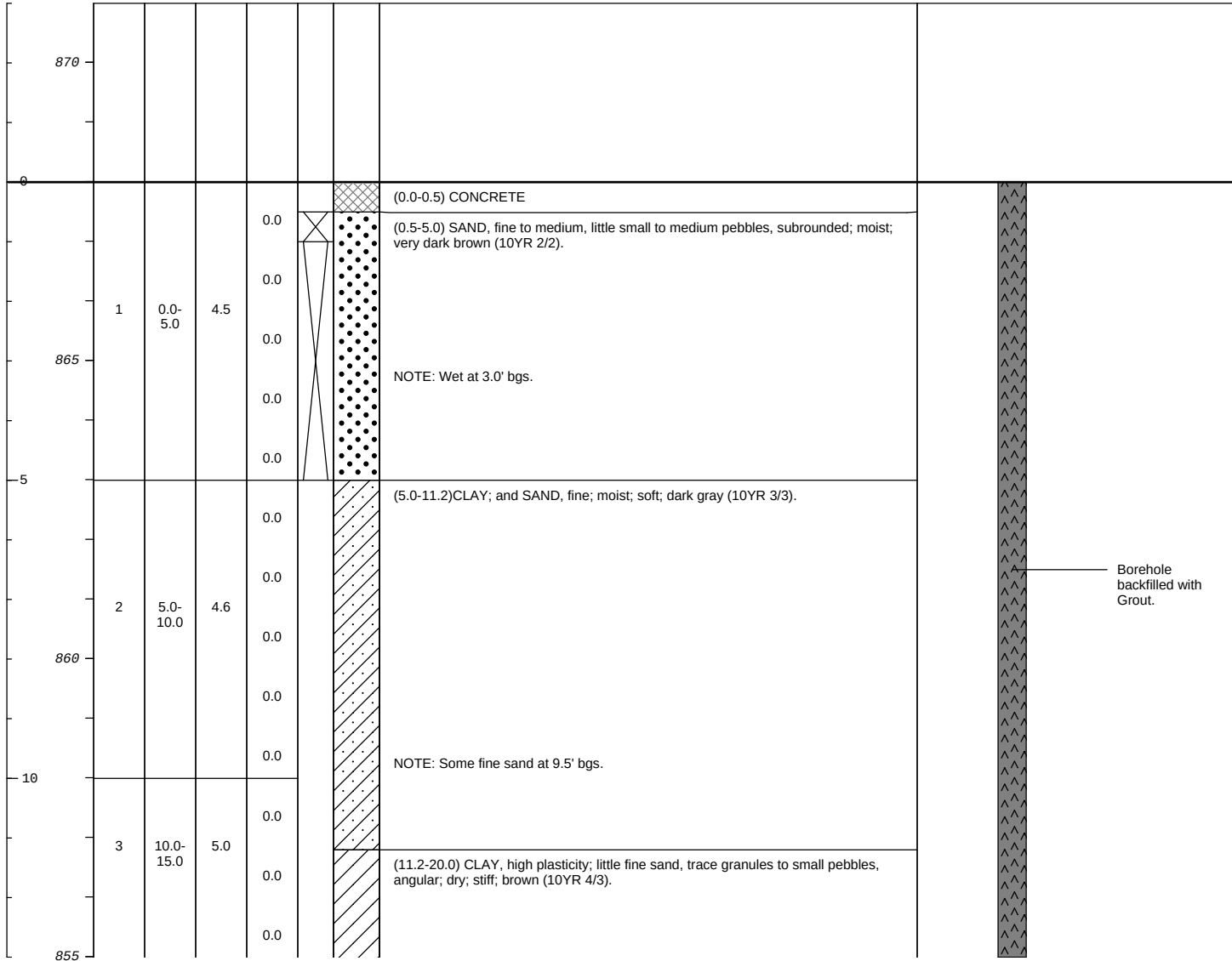
	Remarks: BGS = Below ground surface No Groundwater detected Odor and Staining detected between 4..0'-5.0' bgs
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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Date Start/Finish: 5/25/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451120.19 Easting: 13065806.56 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 867.99 Descriptions By: A.Villhaner	Well/Boring ID: SB-A5.6-NU227 Client: RACER Trust Location: Lansing, MI
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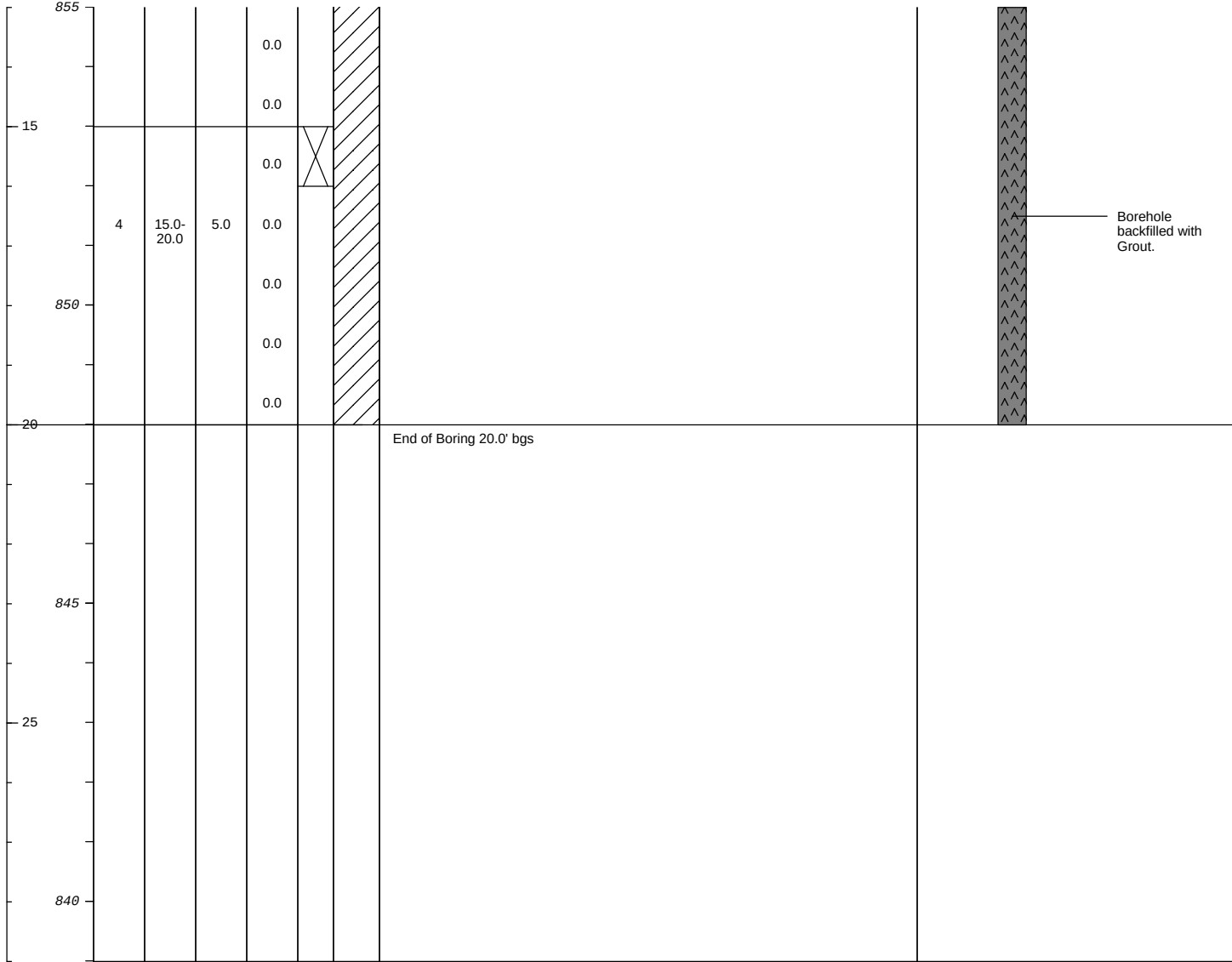
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected at 3.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/25/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451120.19 Easting: 13065806.56 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 867.99 Descriptions By: A.Villhaner	Well/Boring ID: SB-A5.6-NU227 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected at 3.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/29/12 Drilling Company: Stock Driller's Name: Jake / Ernie Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 13065771.98 Easting: 451086.97 Casing Elevation: NA Borehole Depth: 16.0' bgs Surface Elevation: 867.70 Descriptions By: S. Stelter	Well/Boring ID: SB-A5.6-NX224 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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870									
0									
		1	0.0-5.0	4.3	NA			(0.0-0.7) CONCRETE	
865					0.0			(0.7-4.0) SAND, medium to coarse, trace fine sand; well sorted; dry; yellowish brown (10YR 4/5). NOTE: FILL.	
					0.0				
					0.0				
5					0.0			(4.0-7.0) SAND, medium to medium pebbles, trace fine sand, subrounded; poorly sorted; wet; 10YR 3/2. NOTE: FILL.	
					0.0				
		2	5.0-10.0	5.0				(7.0-8.0) CLAY, high plasticity; some fine sand; moist; medium gray (10YR 5/1).	
860					0.0				
					0.0			(8.0-16.0) CLAY, high plasticity; some fine sand, trace granule to small pebbles, subangular; moist; stiff; dark grayish brown (10YR 4/2).	
					0.0				
10					0.0				
		3	10.0-15.0	5.0					
855					0.0				
					0.0				
					0.0				
15					0.0				
		4	15.0-16.0	1.0					
					0.0				
								End of Boring 16.0' bgs - due to refusal.	
850									

	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-7.0' bgs No Odor detected No Staining detected
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Date Start/Finish: 5/25/12 Drilling Company: Stock Driller's Name: Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451083.11 Easting: 13065850.62 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 869.27 Descriptions By: A.Villhaner	Well/Boring ID: SB-A5.6-NX232 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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870									
0								(0.0-1.0) CONCRETE	
		1	0.0-5.0	4.0	NA			(1.0-7.5) SAND, fine to medium, trace large pebbles, subrounded; well sorted; dry; yellowish brown (10YR 4/4). NOTE: FILL.	
					0.0				
					0.0				
865					0.0			NOTE: moist at 4.0'	
5					0.0			NOTE: moist at 5.0'	
		2	5.0-10.0	4.0					
					0.0				
					0.0			(7.5-9.0) SAND, fine, trace small pebbles, subrounded; and CLAY; moist; soft; dark grayish brown (10YR 4/2).	
860					0.0				
					0.0			(9.0-10.8) CLAY, high plasticity; trace fine sand, trace small pebbles, subrounded; dry; medium stiff; very dark brown (10YR 2/2).	
10					0.0				
		3	10.0-15.0	5.0				(10.8-15.0) CLAY, high plasticity; some fine sand; moist; soft; brown (10YR 4/3).	
					0.0				
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Date Start/Finish: 5/25/12 Drilling Company: Stock Driller's Name: Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451083.11 Easting: 13065850.62 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 869.27 Descriptions By: A.Villhaner	Well/Boring ID: SB-A5.6-NX232 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	855	4	15.0-20.0		0.0			(15.0-20.0) CLAY, high plasticity; little fine sand, trace granules to small pebbles, angular; dry; stiff; dark gray (10YR 4/1). NOTE: TILL.	
20	850				0.0			End of Boring 20.0' bgs	Borehole backfilled with Grout.
25	845								

	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Date Start/Finish: 5/25/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451083.48 Easting: 13065930.39 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 870.28 Descriptions By: A.Villhaner	Well/Boring ID: SB-A5.6-NX240 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	870							(0.0-0.2) ASPHALT	
								(0.2-0.9) CONCRETE	
		1	0.0-5.0	4.1	NA	X		(0.9-4.0) SAND, fine to medium; well sorted; dry; dark yellowish brown (10YR 4/4). NOTE: FILL.	
					0.0				
					0.0				
					0.0				
5	865				0.0			(4.0-11.9) CLAY, medium plasticity; trace sand fine, trace granules, subangular; dry; medium stiff; brown (10YR 4/3).	
		2	5.0-10.0	3.4					
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
10	860				0.0				
		3	10.0-15.0	4.5					
					0.0				
					0.0				
					0.0				
					0.0			(11.9-15.0) CLAY, some silt, high plasticity; some fine sand; moist; medium stiff; yellowish brown (10YR 5/4).	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Date Start/Finish: 5/25/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451083.48 Easting: 13065930.39 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 870.28 Descriptions By: A.Villhaner	Well/Boring ID: SB-A5.6-NX240 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	855	4	15.0-20.0		0.0			(15.0-20.0) CLAY, high plasticity; little fine sand, trace granules to small pebbles, angular; dark gray (10YR 4/1). NOTE: TILL.	Borehole backfilled with Grout.
20	850				0.0			End of Boring 20.0' bgs	
25	845								

	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Date Start/Finish: 5/25/12 Drilling Company: Stock Driller's Name: Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451045.26 Easting: 13065891.63 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 869.35 Descriptions By: A.Villhaner	Well/Boring ID: SB-A5.6-OB236 Client: RACER Trust Location: Lansing, MI
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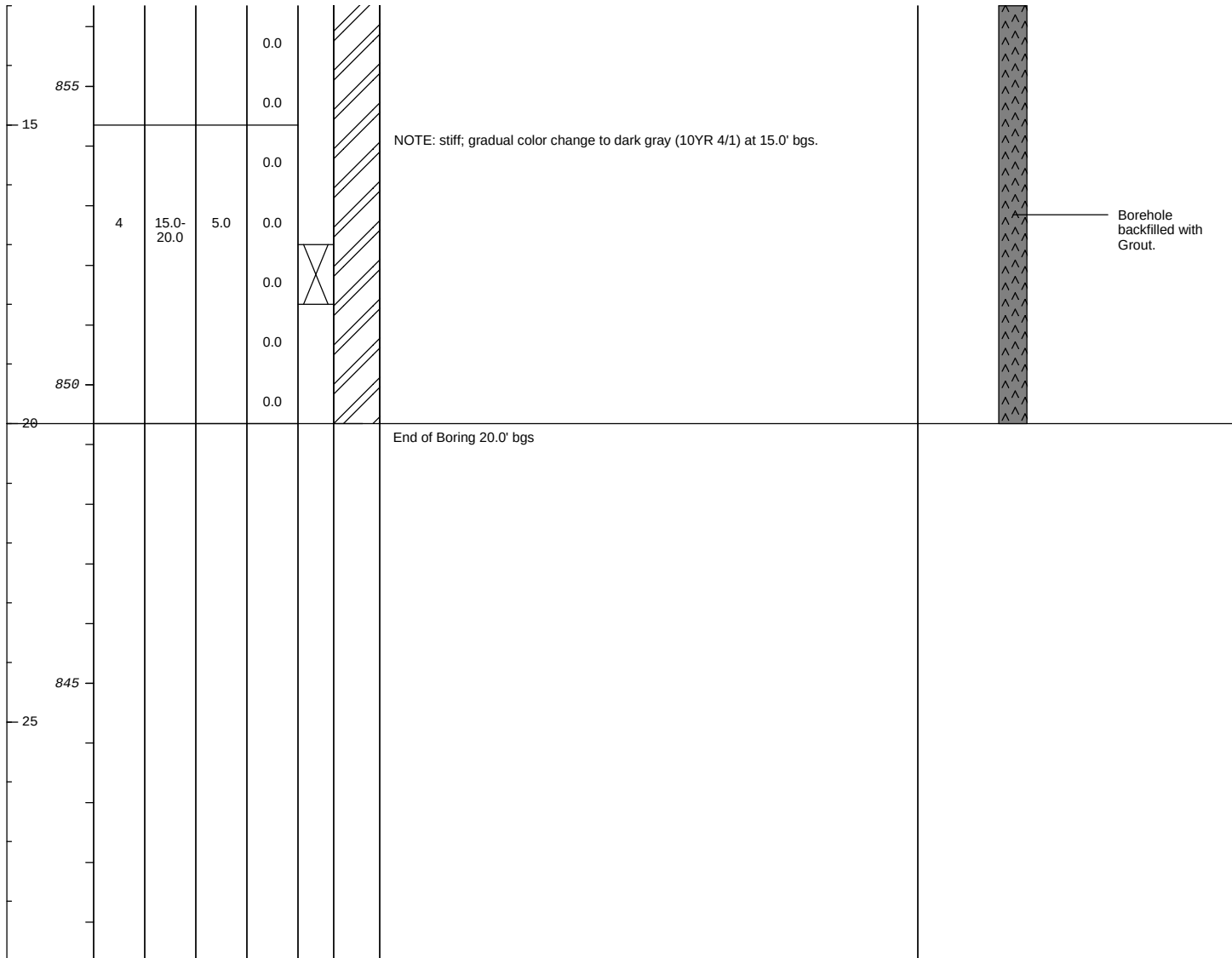
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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870									
0									
		1	0.0-5.0	3.7	NA			(0.0-1.3) CONCRETE	
					0.0			(1.3-7.0) SAND, fine to medium; well sorted; moist; brown (10YR 4/3). NOTE: FILL.	
					0.0				
865					0.0				
5					0.0			NOTE: little clay from 5.0'-7.0' bgs.	
		2	5.0-10.0	5.0				(7.0-10.0) SAND, fine to medium; and CLAY, trace silt, slow dilatancy; moist; soft; very dark brown (10YR 2/2). NOTE: odor from 7.0'-8.0' bgs NOTE: color change to brown (10YR 4/3) at 8.0' bgs.	
					0.0				
860					0.0				
10					0.0			(10.0-20.0) CLAY, high plasticity; little fine sand, trace granules to medium pebbles, subangular; dry; medium stiff; brown (10YR 4/3).	
		3	10.0-15.0	5.0					
					0.0				
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface No Groundwater detected Odor detected between 7.0'-8.0' bgs No Staining detected
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Date Start/Finish: 5/25/12 Drilling Company: Stock Driller's Name: Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451045.26 Easting: 13065891.63 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 869.35 Descriptions By: A.Villhaner	Well/Boring ID: SB-A5.6-OB236 Client: RACER Trust Location: Lansing, MI
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Date Start/Finish: 5/29/12 Drilling Company: Stock Driller's Name: Jake / Ernie Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451036.80 Easting: 13065661.34 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 868.80 Descriptions By: S. Stelter	Well/Boring ID: SB-A5.6-OC213 Client: RACER Trust Location: Lansing, MI
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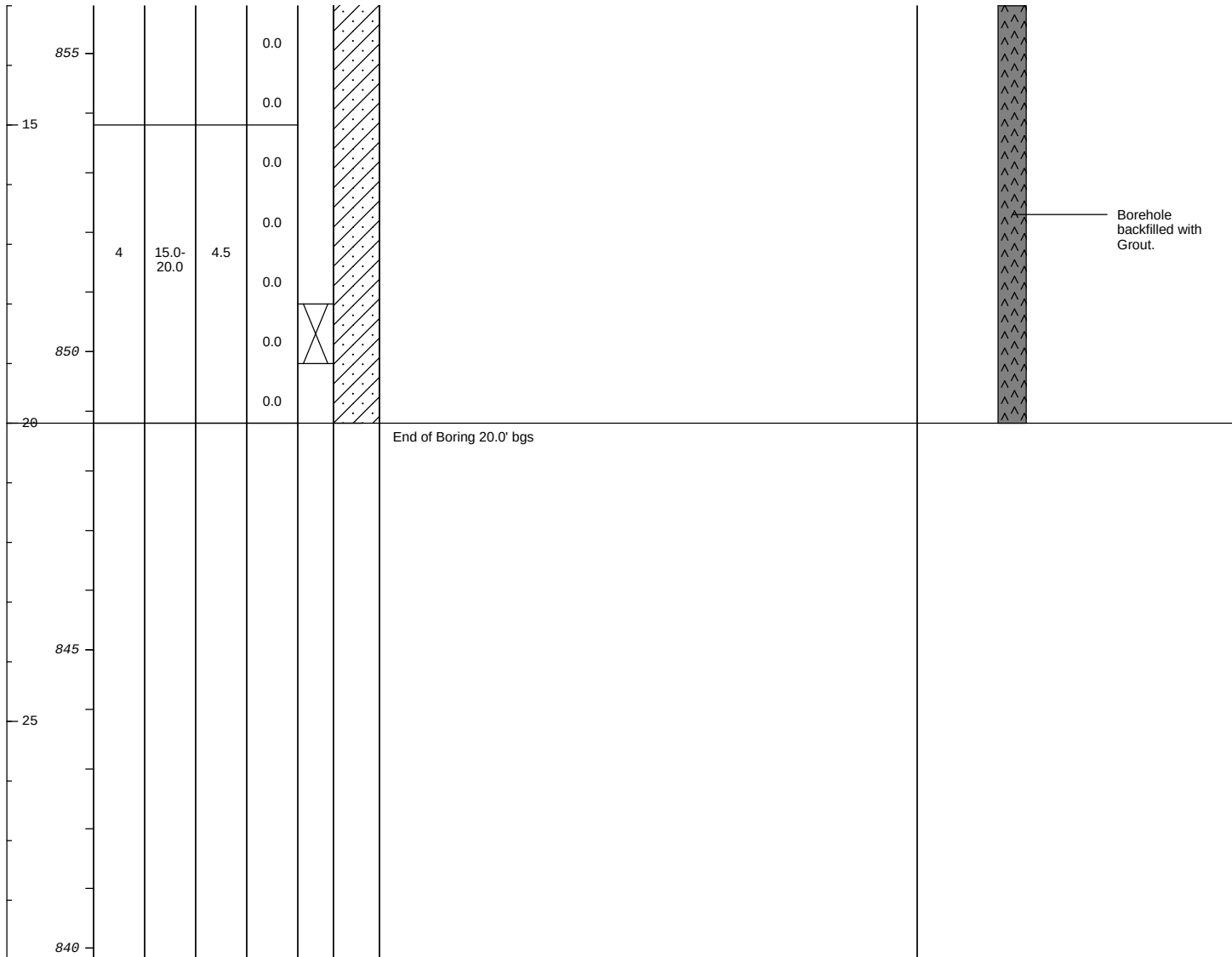
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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870									
0								(0.0-0.3) GRASS / TOPSOIL	
		1	0.0-5.0	5.0	NA			(0.3-4.6) SAND, small pebbles, subangular; well sorted; dry; yellowish brown (10YR 5/4). NOTE: broken fragments of concrete.	
865					0.0				
					0.0				
5					0.0			(4.6-11.0) CLAY, trace silt, low plasticity; little sand, trace granules, rounded; dry; stiff; dark grayish brown (10YR 4/3). NOTE: decrease in stiffness with depth; increase plasticity.	
		2	5.0-10.0	4.0	0.0			NOTE: dark soil; organic odor; some dark staining from 7.0'-9.0' bgs.	
					0.0				
860					0.0				
					0.0				
10					0.0			(11.0-20.0) CLAY, trace silt; some sand, trace gravel to small pebbles, subangular; dry; gray (10YR 5/1). NOTE: TILL.	
		3	10.0-15.0	4.5	0.0				
					0.0				

	Remarks: BGS = Below ground surface No Groundwater detected Odor and Staining detected between 7.0'-9.0' bgs
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Date Start/Finish: 5/29/12 Drilling Company: Stock Driller's Name: Jake / Ernie Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451036.80 Easting: 13065661.34 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 868.80 Descriptions By: S. Stelter	Well/Boring ID: SB-A5.6-OC213 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface No Groundwater detected Odor and Staining detected between 7.0'-9.0' bgs
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Date Start/Finish: 5/29/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451037.43 Easting: 13065741.59 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 868.67 Descriptions By: A. Villhaner	Well/Boring ID: SB-A5.6-OC221 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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870									
0									
		1	0.0-5.0	4.3	NA	X		(0.0-0.7) CONCRETE	
					1.9			(0.7-4.0) SAND, fine to medium, trace granules to small pebbles, subrounded; trace clay; moist; brown (10YR 4/3). NOTE: FILL.	
					1.9				
865					26.8				
					16.7			(4.0-5.0) CLAY; and SAND, fine, trace granules to small pebbles, subrounded; moist; soft; very dark brown (10YR 2/2).	
5					13.0			(5.0-8.2) SAND, fine, trace granules to small pebbles, subround; little clay; moist; soft; very dark brown (10YR 2/2).	
		2	5.0-10.0	5.0	38.1				
					64.9	X			
860					51.0			(8.2-10.0) CLAY, medium plasticity; little fine sand, trace granules, subrounded; moist; medium stiff; brown (10YR 3/2).	
					14.2				
10					1.0			(10.0-20.0) CLAY, high plasticity; little fine sand, trace granules to small pebbles, angular; dry; stiff; dark brown (10YR 3/3). NOTE: TILL.	
		3	10.0-15.0	5.0	0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Date Start/Finish: 5/29/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451037.43 Easting: 13065741.59 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 868.67 Descriptions By: A. Villhaner	Well/Boring ID: SB-A5.6-OC221 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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855					0.0				
15					0.0				
		4	15.0-20.0	4.4	0.0				
					0.0			NOTE: trace large pebbles from 17.0'-20.0' bgs.	
850					0.0				
					0.0			NOTE: color change to gray brown (10YR 4/2) at 19.0' bgs.	
20					0.0			End of Boring 20.0' bgs	
845									
25									
840									

	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Date Start/Finish: 5/29/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450997.90 Easting: 13065702.00 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 869.31 Descriptions By: A. Villhaner	Well/Boring ID: SB-A5.6-OG217 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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870									
0									
		1	0.0-5.0	5.0	NA			(0.0-4.5) SAND, fine, trace small pebbles, subrounded; well sorted; moist; brown (10YR 4/3). NOTE: concrete fragments from 0.0'-4.5'.	
865									
5		2	5.0-10.0	2.0				(4.5-9.0) GRAVEL, small pebbles, trace fine sand, rounded; well sorted; wet; range of colors. NOTE: Pea Stone.	
860									
10								(9.0-12.0) CLAY, high plasticity; some fine sand, trace coarse sand, subrounded; moist; soft; grayish brown (10YR 3/2).	
		3	10.0-15.0	4.5				(12.0-20.0) CLAY, high plasticity; little fine sand, trace granules to medium pebbles, subangular to angular; dry; stiff; dark gray (10YR 4/1). NOTE: TILL.	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 4.5'-9.0' bgs No Odor or Staining detected
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Boring Log .

Project No.: 01-4172-0

Boring No.: SB-A5.7-MC272

Project Name: RACER Lansing Plants

Date Drilled: 11/06/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
2		CL- (0.0 - 4.0) CLAY low plasticity; little fine sand, trace small pebbles, subangular; moist; stiff; brown (10YR 4/3)	MC-272 1.0' - 2.0'	-	0.0	
4		SW- (4.0 - 7.5) SAND fine to coarse, trace granules, subangular; poorly sorted; moist; dark yellowish brown (10YR 4/6)		-	0.0	
6				-	0.0	
8				-	0.0	
10				-	0.0	
12				-	0.0	
14			MC-272 6.5' - 7.5'	-	0.0	
16		CH- (7.5 - 25.5) CLAY high plasticity; trace fine sand, trace granules to small pebbles, subangular; moist, stiff; gray (10YR 5/1) Note: seam of fine to coarse sand, saturated (SW from 12.5' - 12.8') Note: Soil sample taken from 13.0' - 14.0'		-	0.0	
18				-	0.0	
20				-	0.0	
22			MC-272	-	0.0	
24				-	0.0	
26			MC-272 13.0' - 14.0'	-	0.0	
28				-	0.0	
30			MC-272 11.0' - 15.0'	-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
		(25.5 - 29.0) SAND very fine, and silt, moist; dense; gray (10YR 5/1)		-	0.0	
				-	0.0	
				-	0.0	
			MC-272 28.0' - 29.0'	-	0.0	
				-	0.0	

Completion Notes: End Of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A5.7-MF238

Project Name: RACER Lansing Plants

Date Drilled: 9/14/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0		(0.0 - 0.7) ASPHALT		-	0.0	
2		SWG- (0.7 - 3.0) SAND, fine; some granules to small pebbles, subrounded; poorly sorted; moist; dark brown (10YR3/3)	MF-238 1.0' - 2.0'	-	0.0	
4		SW- (3.0 - 9.5) SAND, fine to coarse; subangular; poorly sorted; moist; brown; (10YR 4/3)		-	0.0	
6			MF-238 5.0' - 9.0'	-	0.0	
8		NOTE: saturated at 5.0'		-	0.0	
10		CH- (9.5 - 30.0) CLAY, high plasticity; trace fine sand, trace granules to medium pebbles, subangular to angular; dry; stiff; gray (10YR 5/1)		-	0.0	
12			MF-238 11.0' - 12.0'	-	0.0	
14		NOTE: consistency decreases to soft from 20.0' - 24.0' bgs		-	0.0	
16				-	0.0	
18			MF-238 17.0' - 18.0'	-	0.0	
20				-	0.0	
22				-	0.0	
24			MF-238 23.0' - 24.0'	-	0.0	
26				-	0.0	
28				-	0.0	
30			MF-238 29.0' - 30.0'	-	0.0	
32						

Completion Notes: End of Boring at 30.0' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-AS.7-MH243

Project Name: RACER Lansing Plants

Date Drilled: 9/6/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0.0 - 0.5		ASPHALT		-	0.0	
0.5 - 1.0		SAND, fine small to large pebbles, angular; poorly sorted; dry; dark brown (10YR 3/3)	MH-243 1.0' - 2.0'	-	0.0	
1.0 - 6.0		CLAY, high plasticity; trace fine to medium sand, trace granules to small pebbles; subangular; dry; medium stiff; brown (10YR 4/3)		-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
6.0 - 7.0		SAND, fine; some granules to small pebbles; subrounded; little silt; poorly sorted; saturated; dark yellowish brown (10YR 4/6)	MH-243 6.0' - 7.0'	-	0.0	
7.0 - 9.5		CLAY, high plasticity; little fine sand; trace granules; subangular; moist; soft; brown (10YR 4/3)		-	0.0	
9.5 - 20.0		CLAY, high plasticity; little fine sand, trace granules to small pebbles, angular; moist; medium stiff, dark gray (10YR 4/1)		-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
			MH-243 14.0' - 15.0'	-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
			MH-243 19.0' - 20.0'	-	0.0	
20						

Completion Notes: End of Boring at 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A5.7-ML233

Project Name: RACER Lansing Plants

Date Drilled: 9/14/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0		(0.0 - 0.7) ASPHALT		-	0.0	
2		SWG- (0.7 - 1.8) SAND, fine to medium; some granules to small pebbles, subrounded; moist; dark brown (10YR 3/3)	ML-233 1.0' - 2.0'	-	0.0	
4		CH- (1.8 - 3.0) CLAY, high plasticity; little fine; sand, trace granules subangular; moist; soft; brown; (10YR 4/3)		-	0.0	
6		CH- (3.0 - 30.0) CLAY, high plasticity; trace fine; sand, trace granules to small pebbles, angular; dry; stiff; brown; (10YR 4/3)		-	0.0	
8			ML-233 7.0' - 8.0'	-	0.0	
10		NOTE: gradual transition to gray (10YR 5/1) by 10'		-	0.0	
12		NOTE: seam of fine sand, some silt; dry from 20.2' to 20.4' bgs		-	0.0	
14		NOTE: 1" seam of fine sand, dry at 27.5' bgs	ML-233 13.0' - 14.0'	-	0.0	
16				-	0.0	
18				-	0.0	
20			ML-233 20.0' - 21.0'	-	0.0	
22				-	0.0	
24				-	0.0	
26				-	0.0	
28			ML-233 27.0' - 28.0'	-	0.0	
30				-	0.0	
32						

Completion Notes: End of Boring at 30.0' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A5.7-ML238

Project Name: RACER Lansing Plants

Date Drilled: 9/6/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0 - 0.5) ASPHALT		-	0.0	
		(0.5 - 1.0) CRUSHED STONE	ML-238	-	0.0	
2		CL- (1.0- 6.5) CLAY, low plasticity; some fine sand, trace granules to medium pebbles, subangular; moist; medium stiff; brown (10YR4/3).	1.0' - 2.0'	-	0.0	
4				-	0.0	
6				-	0.0	
8		CH- (6.5 - 11.5) CLAY, high plasticity; trace fine sand, moist; soft; brown (10YR4/3)	ML-238	-	0.0	
10			6.5' - 7.5'	-	0.0	
12		CH- (11.5 - 20.0) CLAY, high plasticity; trace fine sand, trace granules to small pebbles; angular; dry; stiff; gray (10YR5/1)		-	0.0	
14				-	0.0	
16			ML-238	-	0.0	
18			14.0' - 15.0'	-	0.0	
20				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
			ML-238	-	0.0	
			19.0' - 20.0'	-	0.0	

Completion Notes: End of Boring at 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A5.7-ML247

Project Name: RACER Lansing Plants

Date Drilled: 9/6/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0 - 1.0) CONCRETE		-	0.0	
2		SP- (1.0 - 8.0) SAND, fine to medium; well sorted; moist; brown (10YR 4/3).	ML-247 2.0' - 3.0'	-	0.0	
4		CL- (3.0- 8.0) CLAY, low plasticity; little fine sand, trace granules to small pebbles; angular to subangular; dry; stiff; brown (10YR4/3).		-	0.0	
6				-	0.0	
8				-	0.0	
		SP- (8.5 - 15.0) CLAY, very fine to fine sand;well sorted;saturated; very darkgrayish brown (10YR3/2)	ML-247 8.0' - 8.5'	-	0.0	
10		CH- (8.50 - 15.0) CLAY, high plasticity; trace fine sand; trace granules to small pebbles; subangular; dry; stiff; gray (10YR5/1)		-	0.0	
12		NOTE:TILL NOTE:evidence of fracture at 13'		-	0.0	
14			ML-247 13.0' - 14.0'	-	0.0	
16		SW- (15.0 - 19.0) SAND, very fine to coarse, poorly sorted trace granules; subrounded; saturated; brown (10YR 4/3)		-	0.0	
18		NOTE: poor recovery of sand only 1.0' bgs		-	0.0	
20		CH- (19.0 - 22.0) CLAY, high plasticity; trace, fine sand, trace granules; small pebbles, subangular; dry; stiff; gray (10YR5/1)		-	0.0	
22			ML-247 21.0' - 22.0'	-	0.0	

Completion Notes: End of Boring at 22' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A5.7-MQ238

Project Name: RACER Lansing Plants

Date Drilled: 9/14/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0		(0.0 - 0.7) ASPHALT		-	0.0	
2		SWG- (0.7 - 5.0) SAND, fine; some granules to small pebbles, poorly sorted; subrounded; moist; very dark brown (10YR 2/2)		-	0.0	
4				-	0.0	
6		CH- (5.0 - 7.2) CLAY, high plasticity; little fine sand, moist; soft; dark gray (10YR 4/1)	MQ-238 5.0' - 6.0'	-	0.0	
8		NOTE: greenish discoloration at 5.0' - 6.0'		-	0.0	
10		SP- (7.20 - 11.5) SAND, fine; trace sand, medium to coarse; subangular; well sorted; saturated; dark gray (10YR 4/1)	MQ-238 8.0' - 12.0'	-	0.0	
12		CH- (11.5 - 25.0) CLAY, high plasticity; trace fine; sand, trace granules to small pebbles, angular to subangular; dry; stiff; dark gray (10YR 4/1)		-	0.0	
14			MQ-238 13.0' - 14.0'	-	0.0	
16				-	0.0	
18				-	0.0	
20			MQ-238 19.0' - 20.0'	-	0.0	
22				-	0.0	
24				-	0.0	
26		MLS- (25.0 - 26.0) SILT and SAND, very fine; well sorted; slow dilatency; moist; dense; gray (10YR 5/1)	MQ-238 25.0' - 26.0'	-	0.0	
28		CH- (26.0 - 30.0) CLAY, high plasticity; trace fine; sand, trace granules to small pebbles, angular; dry; medium stiff; gray (10YR 5/1)		-	0.0	
30			MQ-238 29.0' - 30.0'	-	0.0	
32						

Completion Notes: End of Boring at 30.0' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A5.7-MQ243

Project Name: RACER Lansing Plants

Date Drilled: 9/6/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0.0 - 0.5		(0.0 - 0.5) ASPHALT		-	0.0	
0.5 - 1.0		(0.5 - 1.0) CRUSHED STONE		-	0.0	
1.0 - 5.0		SM- (1.0 - 5.0) SAND very fine; and silt, slow diletacy; wet; dark yellowish brown (10YR 3/4).		-	0.0	
5.0 - 6.2		SW- (5.0 - 6.2) SAND, fine to medium; little granules, subangular; poorly sorted; saturated; brown (10YR4/3)		-	0.0	
6.2 - 8.5		CH- (6.2 - 8.5) CLAY, high plasticity; trace fine sand, moist; soft; dark grayish brown (10YR 4/2)		-	0.0	
8.5 - 20.0		CH- (8.5 - 20.0) CLAY, high plasticity; little fine sand; trace granules to small pebbles; subangular; dark gray (10YR 4/1) NOTE: transition to dark gray (10YR 5/1 gray) at 12' (gradual)		-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	

Completion Notes: End of Boring at 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 5/23/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451383.85 Easting: 13065852.18 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 863.83 Descriptions By: A. Villhaner	Well/Boring ID: SB-A5.7-MT232 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
		1	0.0-5.0	4.5	0.0	X		(0.0-0.4) ASPHALT	
					0.0			(0.4-2.0) CLAY; and SAND, medium to coarse, subangular; moist; soft; dark brown (10YR 2/2). NOTE: little crushed asphalt.	
					0.0		X	(2.0-8.0) FILL; moist; soft; light gray (10YR 7/1). NOTE: FLY ASH	
860					0.0		X		
					0.0		X		
					0.0		X		
					0.0		X		
5					0.1		X		
					0.3		X		
		2	5.0-10.0	4.6	0.7		X		
					0.7		X		
					0.7		X		
					12.1		X	(8.0-10.0) CLAY, medium plasticity; little fine sand; dry; stiff; very dark brown (10YR 3/2). NOTE: some green discoloration.	
855					0.0				
					0.0			(10.0-11.2) SAND, fine; little silt; moist; grayish brown (10YR 5/2).	
10					0.0			(11.2-20.0) CLAY, high plasticity; little fine sand, trace granules to small pebbles, subangular; dry; dark gray (10YR 4/1).	
		3	10.0-15.0	4.8	0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Date Start/Finish: 5/23/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451383.85 Easting: 13065852.18 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 863.83 Descriptions By: A. Villhaner	Well/Boring ID: SB-A5.7-MT232 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	850	4	15.0-20.0	5.0	0.0				
					0.0				
					0.0				
					0.0				
					0.0				
	845				0.0				
20					0.0			End of Boring 20.0' bgs	
	840								
25									
	835								

	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Date Start/Finish: 5/23/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451380.66 Easting: 13065802.35 Casing Elevation: NA Borehole Depth: 18.0' bgs Surface Elevation: 864.27 Descriptions By: A. Villhaner	Well/Boring ID: SB-A5.7-MU227 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
		1	0.0-5.0	4.5	NA			(0.0-0.5) ASPHALT	
					4.8			(0.5-1.8) SAND, medium to coarse, trace granules to small pebbles, subangular; poorly sorted; dry; dark brown (10YR 2/2).	
					11.7			(1.8-5.4) CLAY, low plasticity; little fine sand, trace small pebbles, subrounded; dry; stiff.	
860					21.6				
					6.9				
5									
		2	5.0-9.0	4.0	1.7			(5.4-7.0) CLAY, little silt; and SAND, fine; moist; dark yellowish brown (10YR 4/4).	
					1.2				
					1.2			(7.0-10.0) SAND, fine to medium; well sorted; wet; brown (10YR 4/3).	
					0.1				
855					NA				
10		3	9.0-13.0	3.1	NA			(10.0-18.0) CLAY, high plasticity; little fine sand, trace granules to small pebbles, angular; dry; stiff; dark gray (10YR 4/1). NOTE: Till.	
					NA				
					NA			NOTE: fine sand and silt seam; dark brownish gray (10YR 4/2) from 11.6'-11.7' bgs.	
					NA				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 7.0'-10.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/23/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451381.21 Easting: 13065887.55 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 862.83 Descriptions By: S. Stelter	Well/Boring ID: SB-A5.7-MU235 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
		1	0.0-5.0	5.0	NA	X		(0.0-0.5) ASPHALT	
					0.0			(0.5-2.0) SAND, medium to coarse, granules to medium pebbles; and CLAY; moist; soft; dark brown (10YR 2/2). NOTE: pebbles from crushed asphalt.	
860					0.0			(2.0-5.0) CLAY, high plasticity; and SAND, some granules, subangular; moist; soft; grayish brown (10YR 5/2).	
					0.0				
5					0.0				
		2	5.0-10.0	5.0	0.0	X		(5.0-7.5) FILL; moist; soft; light gray (10YR 7/1). NOTE: FLY ASH.	
					2.3	X			
855					0.3	X		(7.5-9.0) CLAY, medium plasticity; little fine sand; dry; stiff; dark brown (10YR 3/2).	
					0.0				
					0.0			(9.0-11.5) SAND, medium, trace coarse sand, subangular; well sorted; wet; drak gray (10YR 3/1).	
10					0.0				
		3	10.0-15.0	5.0	0.0			(11.5-12.5) SAND, fine; trace silt; well sorted; wet; gray (10YR 5/2).	
850					NA			(12.5-15.0) SAND, very coarse to granules, subrounded; trace silt; wet; grayish	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 9.0'-15.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/23/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451381.21 Easting: 13065887.55 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 862.83 Descriptions By: S. Stelter	Well/Boring ID: SB-A5.7-MU235 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15					NA			brown (10YR 5/2).	
		4	15.0-20.0	1.5	NA			(15.0-20.0) CLAY, high plasticity; little fine sand, trace granules to large pebbles, angular; moist; medium stiff; gray (10YR 4/1).	
845					NA				
					NA				
20					NA			End of Boring 20.0' bgs	
840									
25									
835									

	Remarks: BGS = Below ground surface Groundwater detected between 9.0'-15.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/23/12-5/24/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451357.63 Easting: 13065911.68 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 863.15 Descriptions By: A.Villhaner	Well/Boring ID: SB-A5.7-MW238 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
					0.0	X		(0.0-0.5) ASPHALT	
		1	0.0-5.0	4.5	0.0			(0.5-2.0) CLAY; and SAND, medium to coarse, trace granules to small pebbles, subangular; moist; soft very dark brown (10YR 2/2). NOTE: pebbles are likely crushed asphalt.	
860					0.0			(2.0-5.0) SAND, fine to coarse, some granules to medium pebbles, subrounded; poorly sorted; moist; brown (10YR 4/3). NOTE: contains wood fragments.	
					0.0				
					0.0				
5					0.0			(5.0-5.8) CLAY, high plasticity; little fine to medium sand, trace granules, subangular; moist; medium stiff; dark brown (10YR 4/2).	
					0.0			(5.8-7.0) SAND, fine; and CLAY; wet; soft; dark brown (10YR 4/2).	
		2	5.0-10.0	5.0	0.0			(7.0-10.5) SAND, fine to coarse, trace granules, subrounded; trace silt; poorly sorted; wet; dark brown (10YR 4/2).	
855					0.0				
					0.0				
					0.0				
10					0.0			(10.5-12.5) SAND, coarse, granules to medium pebbles, subangular to subrounded; poorly sorted; wet; very dark brown (10YR 2/2).	
					0.0				
		3	10.0-15.0	2.4	0.0			(12.5-20.0) SAND, fine to coarse, trace small to medium pebbles, subrounded; trace	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 5.8'-20.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/23/12-5/24/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451357.63 Easting: 13065911.68 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 863.15 Descriptions By: A.Villhaner	Well/Boring ID: SB-A5.7-MW238 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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850					0.0			clay; poorly sorted; wet very dark brown (10YR 2/2).	
15					0.0			NOTE: color change to (10YR 4/3 brown); coarsening down at 14.5' bgs.	
		4	15.0-20.0	2.3	0.0				
845					0.0			NOTE: some granules to small pebbles at 18.0' bgs.	
20					0.0				
		5	20.0-25.0	5.0	0.0			(20.0-25.0) CLAY, high plasticity; little fine sand, trace granules to small pebbles, angular; dry; stiff; dark gray (10YR 4/1). NOTE: TILL. NOTE: fine sand seam; trace medium pebble; (10YR 4/2 dark grayish brown); moist from 20.9'-21.0' bgs.	
840					0.0				
25					0.0			End of Boring 25.0' bgs	
835									

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 5.8'-20.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/24/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451333.88 Easting: 13065802.83 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 864.28 Descriptions By: A.Villhaner	Well/Boring ID: SB-A5.7-MY227 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
		1	0.0-5.0	4.5	NA	X		(0.0-0.5) ASPHALT	
					0.0			(0.5-1.9) SAND, medium to coarse, some small to large pebbles, subrounded; poorly sorted; moist; very dark brown (10YR 2/2).	
					0.0			(1.9-3.6) CLAY, high plasticity; little fine sand, trace granules, subrounded; dry; stiff; brown (10YR 4/3).	
860					0.0			(3.6-16.0) CLAY, trace silt, medium plasticity; some fine sand; moist; soft; dark grayish brown (10YR 4/2).	
5					0.0			NOTE: No nodules of fly ash; light gray (10YR 7/1) from 4.0'-5.5' bgs.	
		2	5.0-10.0	5.0					
					0.0				
					0.0				
855					0.0				
10		3	10.0-15.0	5.0					
					0.0				
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Date Start/Finish: 5/24/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451333.40 Easting: 13065844.18 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 864.31 Descriptions By: A.Villhaner	Well/Boring ID: SB-A5.7-MY231 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
		1	0.0-5.0	4.3	NA	X	 (0.0-0.5) ASPHALT  (0.5-2.0) SAND, medium to coarse, some small to medium pebbles, subrounded; trace clay; poorly sorted; dry; very dark brown (10YR 2/2).  (2.0-5.0) CLAY, low plasticity; little fine sand, trace small pebbles, subrounded; dry; stiff; light olive brown (10YR 5/3).		
860									
5		2	5.0-10.0	5.0	1.0	X	 (5.0-7.8) FILL; moist; soft; light gray (10YR 7/1). NOTE: FLY ASH.  (7.8-10.0) CLAY, high plasticity; little fine sand, trace small pebbles, subrounded; dry; stiff very dark gray (10YR 3/1). Note: Organic sediment with roots at 8.8'.		
855									
10		3	10.0-15.0	3.5	0.0		 (10.0-14.6) SAND, fine to medium; well sorted; wet; gray (10YR 5/1).		

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 10.0'-14.6' bgs No Odor or Staining detected
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Date Start/Finish: 5/24/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451333.40 Easting: 13065844.18 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 864.31 Descriptions By: A.Villhaner	Well/Boring ID: SB-A5.7-MY231 Client: RACER Trust Location: Lansing, MI
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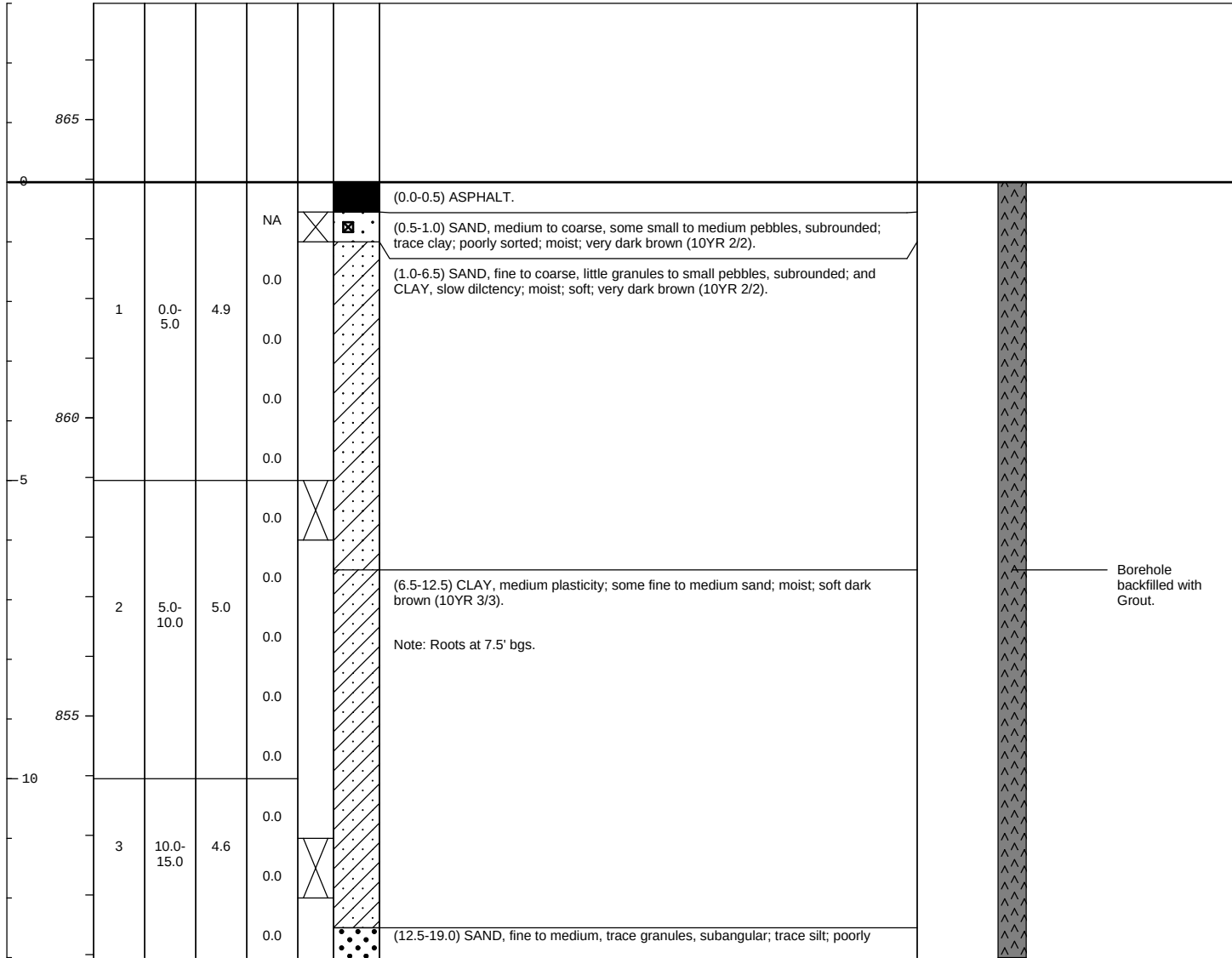
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	850	4	15.0-20.0	5.0	0.0			(14.6-20.0) CLAY, high plasticity; little fine sand, trace granules to small pebbles, subangular; dry; stiff; dark gray (10YR 4/1). NOTE: TILL.	
20	845				0.0			End of Boring 20.0' bgs	Borehole backfilled with Grout.
25	840								

	Remarks: BGS = Below ground surface Groundwater detected between 10.0'-14.6' bgs No Odor or Staining detected
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Date Start/Finish: 5/24/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451335.29 Easting: 13065887.05 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 863.95 Descriptions By: A.Villhaner	Well/Boring ID: SB-A5.7-MY235 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected at 15.0' bgs No Odor or Staining detected
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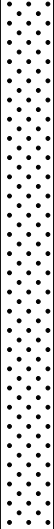
Date Start/Finish: 5/24/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451335.29 Easting: 13065887.05 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 863.95 Descriptions By: A.Villhaner	Well/Boring ID: SB-A5.7-MY235 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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850					0.0			sorted; moist; dark grayish brown (10YR, 4/2).	
15					0.0			Note: Wet at 15.0' bgs.	
	4	15.0-20.0	4.1		0.0				
					0.0				
845					0.0				
					0.0			(19.0-20.0) CLAY, high plasticity; little fine sand, trace granules to small pebbles, subangular; dry; stiff; dark gray (10YR 4/1).	
20					0.0			End of Boring 20.0' bgs	
840									
25									
835									

	Remarks: BGS = Below ground surface Groundwater detected at 15.0' bgs No Odor or Staining detected
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Date Start/Finish: 11.15.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger, Sonic Sampling Method: Hand Auger, Sonic Rig Type: Sonic	Northing: Easting: Casing Elevation: Borehole Depth: 40.0' bgs Surface Elevation: Descriptions By: Austin Westhuis	Well/Boring ID: SB-A5.8-MQ292 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	1.0-5.0	5.0	0.0			(0.0'-1.0') CONCRETE	
					0.0			(1.0'-8.0') SAND, fine grained, subrounded; trace granules to small pebbles, subrounded; trace silt; well sorted; moist; brown (10YR 4/3).	
					0.0				
					0.0				
					0.0				
5	-5	2	5.0-10.0	3.0	0.0			(8.0'-22.0') CLAY, little silt, high plasticity; trace fine sand, subrounded; trace granules to large pebbles, subrounded; moist; medium stiff; brown (10YR 4/3). NOTE: very soft from 21.0'-22.0' bgs.	
					0.0				
					0.0				
					0.0				
10	-10	3	10.0-20.0	9.0	0.0				
					0.0				
					0.0				
					0.0				

	Remarks: bgs = below ground surface Hand auger to 5' bgs. No groundwater encountered. No odor or staining observed.
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Date Start/Finish: 11.15.12 Drilling Company: Boart Longyear Driller's Name: Jason Greer Drilling Method: Hand Auger, Sonic Sampling Method: Hand Auger, Sonic Rig Type: Sonic	Northing: Easting: Casing Elevation: Borehole Depth: 40.0' bgs Surface Elevation: Descriptions By: Austin Westhuis	Well/Boring ID: SB-A5.8-MQ292 Client: RACER Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
30	-30	5	30.0-40.0	10.0	0.0				
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
35	-35				0.0				
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
40	-40				0.0			End of boring at 40.0' bgs.	
45	-45								

	Remarks: bgs = below ground surface Hand auger to 5' bgs. No groundwater encountered. No odor or staining observed.
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Date Start/Finish: 9.21.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 451421.4513 Easting: 13066528.76 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 874.55 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A5.8-MQ299 Client: RACER Location: RACER Lansing Plant 6
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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875									
0					NA			(0.0-0.9') CONCRETE.	
		1	0.0-5.0	3.5	0.0			(0.9-4.0') SAND, fine, trace small pebbles, subangular; well sorted; moist; brown (10YR 4/3).	
					0.0				
					0.0				
870					0.0			(4.0-5.5') CLAY, low plasticity; little fine sand, trace granules to small pebbles, angular; dry; medium stiff; brown (10YR 4/3).	
5					0.0				
		2	5.0-10.0	2.4	0.0			(5.5-14.5') CLAY, high plasticity; trace fine sand, trace granules to small pebbles, angular; dry; stiff; brown (10YR 4/3).	
					0.0				
					0.0				
865					0.0				
10					0.0				
		3	10.0-15.0	3.5	0.0				
					0.0				

	Remarks: bgs = below ground surface Groundwater encountered from 14.5'-16.0' bgs. No odor or staining observed.
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Date Start/Finish: 9.21.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 451421.4513 Easting: 13066528.76 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 874.55 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A5.8-MQ299 Client: RACER Location: RACER Lansing Plant 6
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	860				0.0				
		4	15.0-20.0	4.8	0.0			(14.5-16.0') SAND, fine, little coarse sand to granules, subangular; trace clay; saturated; brown (10YR 4/3).	
					0.0			(16.0-20.0') CLAY, high plasticity; trace sand, trace granules to small pebbles, subangular; dry; stiff; gray (10YR 5/1).	
					0.0				
20	855				0.0			End of boring at 20.0' bgs.	
25	850								

	Remarks: bgs = below ground surface Groundwater encountered from 14.5'-16.0' bgs. No odor or staining observed.
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Date Start/Finish: 9.21.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 451197.4929 Easting: 13066744.69 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 878.40 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A5.8-NM321 Client: RACER Location: RACER Lansing Plant 6
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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880									
0									
				0.0		↓ ↓ ↓		(0.0-0.4') TOPSOIL/GRASS.	
		1	0.0-5.0	3.8	0.0	X		(0.4-6.0') CLAY, low plasticity; some fine sand, trace granules to medium pebbles, subangular; dry; stiff; brown (10YR 4/3).	
875					0.0				
5					0.0				
					0.0	X			
		2	5.0-10.0	5.0	0.0			(6.0-20.0') CLAY, high plasticity; trace fine sand, trace granules to small pebbles, angular to subangular; dry; stiff; brown (10YR 4/3).	
870					0.0				
					0.0				
10					0.0				
					0.0				
		3	10.0-14.0	4.0	0.0				
					0.0				

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 9.21.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 451197.4929 Easting: 13066744.69 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 878.40 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A5.8-NM321 Client: RACER Location: RACER Lansing Plant 6
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865				0.0					
15		4	14.0-17.0	3.0	0.0				
					0.0				
					0.0				
					0.0				
860		5	17.0-20.0	3.0	0.0				
					0.0				
					0.0				
20					0.0				
								End of Boring at 20.0' bgs.	
855									
25									
850									

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 5/17/12 Drilling Company: GeoServ Driller's Name: Dean Govan Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 449924.58 Easting: 13065435.67 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 870.19 Descriptions By: Ian Drost	Well/Boring ID: SB-A6-SJ190 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	870								
		1	0.0-5.0		0.0			(0.0-1.5) GRAVEL, granules to large pebbles, some fine to coarse sand, subangular to subrounded; trace silt; poorly sorted; dry; brown (10YR 4/3). NOTE: FILL.	
					0.0			(1.5-2.5) SAND, fine to coarse, some small to medium pebbles, subangular; poorly sorted; dry to moist; brown (10YR 4/3).	
					0.0			(2.5-9.5) CLAY, little silt, low plasticity; some fine to coarse sand, little granules to small pebbles, subangular; no dilatancy; dry; stiff; grayish brown (2.5Y 4/2).	
5	865				0.0				
		2	5.0-10.0	5.0	0.0				
					0.0				
					0.0				
					0.0				
					0.0				
10	860				0.0			(9.5-11.0) SILT, low plasticity; some very fine to medium sand, subrounded; no dilatancy; moist; brown (10YR 4/3).	
		3	10.0-12.5	2.5	0.0			(11.0-16.5) CLAY, some silt, low plasticity; trace very fine sand, trace granules, subrounded; no dilatancy; moist to dry; stiff; gray (10YR 5/1).	
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Date Start/Finish: 5/17/12 Drilling Company: GeoServ Driller's Name: Dean Govan Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 449924.58 Easting: 13065435.67 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 870.19 Descriptions By: Ian Drost	Well/Boring ID: SB-A6-SJ190 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	855	4	12.5-15.0	2.5	0.0				
					0.0				
		5	15.0-17.5	2.5	0.0			(16.5-22.3) CLAY, trace silt, low plasticity; trace granules to small pebbles, subangular; no dilatancy; dry; very stiff; gray (10YR 5/1).	
					0.0				
		6	17.5-20.0	2.5	0.0				
					0.0				
20	850				0.0				
		7	20.0-22.5	2.5	0.0				
					0.0				
		8	22.5-25.0	2.5	0.0			(23.3-25.0) SAND, fine to medium, trace coarse sand, subrounded; well sorted; dry; yellowish brown (10YR 5/6).	
					0.0				
25	845							End of boring at 25.0' bgs	

	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Date Start/Finish: 5/16/12 Drilling Company: Stock Driller's Name: Dean Govan Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 449904.65 Easting: 13065415.32 Casing Elevation: NA Borehole Depth: 27.5' bgs Surface Elevation: 869.48 Descriptions By: Ian Drost	Well/Boring ID: SB-A6-SL188 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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870									
0								(0.0-0.5) ASPHALT	
		1	0.0-5.0	5.0	0.0			(0.5-4.0) SAND, fine to medium, little coarse sand to granules, trace large pebbles to cobbles, subangular to subrounded; poorly sorted; moist; brown (10YR 4/3).	
					0.0			NOTE: wet at 3.0' bgs.	
865					0.0			(4.0-6.0) CLAY, some silt, low plasticity; some fine to medium sand, subrounded; no dilatancy; moist; stiff; brown (10YR 4/3).	
5					0.0			(6.0-6.8) SAND, fine to medium, some coarse sand, trace granules, subangular to subrounded; some silt; poorly sorted; moist to wet; brown (10YR 4/3).	
		2	5.0-10.0	4.2	0.0			(6.8-11.0) CLAY, some silt, low plasticity; some fine to medium sand, trace granules to small pebbles, subrounded; slow dilatancy; moist to wet; soft; brown (10YR 4/3).	
860					0.0				
10					0.0				
		3	10.0-15.0	5.0	0.0			(11.0-14.0) CLAY, some silt, medium plasticity; little fine sand, trace granules to small pebbles, subangular; moist to dry; medium stiff; dark gray (10YR 4/1).	
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected at 3.0' and between 6.0'-6.8' and 6.8'-11.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/16/12 Drilling Company: Stock Driller's Name: Dean Govan Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 449904.65 Easting: 13065415.32 Casing Elevation: NA Borehole Depth: 27.5' bgs Surface Elevation: 869.48 Descriptions By: Ian Drost	Well/Boring ID: SB-A6-SL188 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	855	4	15.0-19.0	4.0	0.0			(14.0-21.5) CLAY, little silt, low plasticity; trace granules to medium pebbles, subangular; no dilancy; dry; stiff; dark gray (10YR 4/1).	
					0.0				
					0.0				
					0.0				
					0.0				
20	850	5	19.0-22.5	3.0	0.0			(21.5-24.5) SAND, fine to medium, some very fine sand, subrounded; trace silt; well sorted; moist; yellowish brown (10YR 5/6).	
					0.0				
					0.0				
25	845	6	22.5-25.0	2.5	0.0			(24.5-26.5) SILT, low plasticity; some very fine sand, subrounded to round; moist; soft; gray (10YR 5/2).	
					0.0				
					0.0				
		7	25.0-27.5	2.5	0.0			(26.5-27.5) SAND, fine to medium, some very fine sand, subrounded; trace silt; well sorted; dry; yellowish brown (10YR 5/6).	
					0.0				
								End of boring at 27.5' bgs	

	Remarks: BGS = Below ground surface Groundwater detected at 3.0' and between 6.0'-6.8' and 6.8'-11.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/16/12 Drilling Company: GeoServ Driller's Name: Dean Govan Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 449904.65 Easting: 13065456.07 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 869.09 Descriptions By: Ian Drost	Well/Boring ID: SB-A6-SL192 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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870									
0									
		1	0.0-5.0	5.0	NA			(0.0-0.8) CONCRETE	
					0.0			(0.8-2.5) SAND, very fine to medium, some coarse sand to granules, little small pebbles, subangular to subrounded; some silt; poorly sorted; moist; brown (10YR 4/3).	
					0.0			(2.5-4.0) CLAY, little silt, high plasticity; trace very fine sand, subrounded; no dilatancy; dry; stiff; very dark gray (2.5Y 3/1).	
865					0.0			(4.0-6.2) SAND, very fine to fine, subrounded to round; some silt; well sorted; wet; brown (10YR 4/3).	
5					0.0			(6.2-10.0) CLAY, little silt, medium plasticity; little fine to medium sand, subrounded; no dilatancy; moist to dry; soft; brown (10YR 4/3).	
		2	5.0-10.0	4.1				NOTE: trace granules from 8.0'-10.0' bgs.	
860					0.0				
10					0.0			(10.0-15.0) No Recovery.	
		3	10.0-15.0	0.0					
855									

	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-6.2' bgs No Odor or Staining detected
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Date Start/Finish: 5/16/12 Drilling Company: GeoServ Driller's Name: Dean Govan Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 449904.65 Easting: 13065456.07 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 869.09 Descriptions By: Ian Drost	Well/Boring ID: SB-A6-SL192 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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855									
15		4	15.0-17.5	2.5	0.0			(15.0-20.5) CLAY, trace silt, medium plasticity; trace granules to small pebbles, subangular; dry to moist; stiff; gray (10YR 5/1).	
					0.0				
		5	17.5-20.0	2.5	0.0				
850					0.0				
20					0.0				
		6	20.0-22.5	2.5	0.0			(20.5-24.0) SAND, very fine to fine, subrounded; trace silt; well sorted; dry to moist; yellowish brown (10YR 5/6).	
					0.0				
		7	22.5-25.0	2.4	0.0			(24.0-25.5) SAND, fine to medium, subrounded; well sorted; dry; very pale brown (10YR 8/2).	
845					0.0				
25					0.0			(25.5-26.5) SILT, low plasticity; little very fine sand, subrounded; slow dilatancy; moist; medium stiff; gray (10YR 5/2).	
		8	25.0-28.5	3.5	0.0			(26.5-30.0) SAND, very fine to medium, subrounded, well sorted; dry; light gray (10YR 7/2).	
					0.0				
840		9	28.5-30.0	1.5	0.0				
30								End of boring at 30.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-6.2' bgs No Odor or Staining detected
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Date Start/Finish: 5/16/12 Drilling Company: GeoServ Driller's Name: Dean Govan Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 449884.27 Easting: 13065435.67 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 869.20 Descriptions By: Ian Drost	Well/Boring ID: SB-A6-SN190 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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870									
0									
		1	0.0-5.0		NA			(0.0-1.0) CONCRETE	
					0.0			(1.0-5.5) SAND, very fine to fine, trace medium to coarse sand, subrounded; well sorted; wet; brown (10YR 4/3).	
					0.0				
865					0.0				
5					0.0				
		2	5.0-10.0	4.0	0.0			(5.5-9.1) SAND, fine to coarse, trace granules to small pebbles, subangular to subrounded; trace silt; poorly sorted; wet; yellowish brown (10YR 5/6).	
					0.0				
					0.0				
					0.1				
860					0.0			(9.1-16.0) CLAY, little silt, low plasticity; some fine to medium sand, little granules to small pebbles, subangular; slow dilatancy; moist to wet; soft; gray (10YR 5/2).	
10					0.0				
		3	10.0-15.0	4.5	0.0				
					0.0				
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 1.0'-5.5', 5.5'-9.1', 9.1'-16.0', 16.0'-18.0' and 18.0'-18.5' bgs No Odor or Staining detected
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Date Start/Finish: 5/16/12 Drilling Company: GeoServ Driller's Name: Dean Govan Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 449884.27 Easting: 13065435.67 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 869.20 Descriptions By: Ian Drost	Well/Boring ID: SB-A6-SN190 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	855				0.0				
		4	15.0-20.0	5.0	0.0			(16.0-18.0) SAND, very fine to fine, some medium to coarse sand, trace granules to small pebbles, subangular to subrounded; some silt; poorly sorted; wet; gray (10YR 5/2).	
					0.0			(18.0-18.5) SAND, medium to coarse, little fine sand, little granules, trace small pebbles, subangular to subrounded; poorly sorted; wet; gray (10YR 5/2).	
	850				0.0			(18.5-20.0) CLAY, little silt, medium plasticity; trace granules to small pebbles, subangular; moist to dry; medium stiff; gray (10YR 5/2).	
20		5	20.0-25.0	3.5	0.0			(20.0-25.0) SAND, fine to medium, some very fine sand, subrounded; little silt; well sorted; dry; yellowish brown (10YR 5/6). NOTE: interbedded silt and clay layers.	
	845				0.0			NOTE: Color change to gray at 24.5' bgs.	
25					0.0			End of boring at 25.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 1.0'-5.5', 5.5'-9.1', 9.1'-16.0', 16.0'-18.0' and 18.0'-18.5' bgs No Odor or Staining detected
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Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A9-SE-229

Project Name: RACER Lansing Plants

Date Drilled: 6/1/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0		(0.0' - 5.0') SAND some fine-medium trace granuals; angular; well sorted; (10YR 4/3 Brown); (fill)	SE-229 0.0' - 1.0'	-	0.0	
2				-	0.0	
4				-	0.0	
4				-	0.0	
6		(5.0' - 9.30) CLAY high plasticity; trace fine sand; trace granuals; subangular; dry; stiff (10YR 4/3 Brown)		-	0.0	
6				-	0.0	
8				-	0.0	
8				-	0.0	
10		(9.30' - 10.0') SAND fine-medium; well sorted; (10YR 5/2 Dark Greyish Brown)	SE-229 9.0' - 10.0'	-	0.0	
10				-	0.0	
12		(10.0' - 11.50) CLAY high plasticity; little fine sand; trace granules to small pebbles; subangular; dry; stiff (10YR 5/3 Brown)		-	0.0	
12				-	0.0	
14		(11.50' - 17.0') CLAY some fine sand; trace small pebbles, subangular; moist; (10YR 4/1 Dark Grey)		-	0.0	
14				-	0.0	
16			SE-229 16.0' - 17.0'	-	0.0	
16				-	0.0	
18		(17.0' - 30.0') CLAY high plasticity; little fine sand; trace granuals; medium pebbles; subangular; dry; (10YR 4/3 Brown); (till)		-	0.0	
18				-	0.0	
20				-	0.0	
20		Note: Color change to (10YR 4/1Dark Grey) @25'		-	0.0	
22				-	0.0	
22				-	0.0	
24				-	0.0	
24				-	0.0	
26				-	0.0	
26				-	0.0	
28			SE-229 27.0' - 28.0'	-	0.0	
28				-	0.0	
30				-	0.0	

Completion Notes: EOB@ 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A7-SO-214

Project Name: RACER Lansing Plants

Date Drilled: 6/4/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0' - 6.0') SAND fine; little granules to medium pebbles; subrounded, poorly sorted; dry; (10YR 4/3 Brown)		-	0.0	
2			SO-214 1.0' - 2.0'	-	0.2	
				-	0.2	
4				-	0.4	
				-	0.6	
6			SO-214 5.0' - 6.0'	-	0.6	
		(6.0' - 11.20') CLAY medium plasticity; some fine sand; trace granules; sub angular; dry; (10YR 4/3 Brown)		-	0.1	
8				-	0.0	
				-	0.0	
10				-	0.0	
				-	0.0	
12		(11.20' - 12.50') CLAY high plasticity; some fine sand; trace small pebbles; subrounded; moist; soft (10YR 4/1 Grey)		-	0.0	
				-	0.2	
14		(12.50' - 20.00') CLAY high plasticity; little fine sand; trace granules to medium pebbles; subangular; dry; stiff (10YR 4/1 Dark Grey)(till) Note: Greenish discoloration @ 12.5' - 14.0'	SO-214 13.0' - 14.0'	-	0.2	
				-	0.0	
16				-	0.0	
				-	0.0	
18				-	0.0	
				-	0.0	
20			SO-214 19.0' - 20.0'	-	0.0	

Completion Notes: EOB@ 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 449867.95 Easting: 13065723.39 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 874.30 Descriptions By: A. Villhauer	Well/Boring ID: SB-A7-SP219 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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875									
0					0.0			(0.0-5.0) SAND, fine to medium, trace small pebbles, subround; well sorted; dry; brown (10YR 4/3).	
		1	1.0-5.0	5.0	0.3				
					0.7				
870					0.7				
					0.8				
5					0.1			(5.0-9.1) CLAY; and SAND, fine, trace granule, subangular; dry; dark brown (10YR 3/3).	
		2	5.0-10.0	4.0	0.0				
					0.0				
					0.0				
865					0.1			(9.1-10.5) CLAY, low plasticity; little fine sand; dry; stiff; brown (10YR 4/3).	
10					0.9			(10.5-15.0) CLAY, high plasticity; some fine sand; dry; medium stiff; dark gray (10YR 4/1).	
					0.3				
		3	10.0-15.0	3.7	0.4			NOTE: 12.0-14.0' bgs, greenish black discoloration.	
					0.4				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected
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Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A7-SQ-209

Project Name: RACER Lansing Plants

Date Drilled: 6/4/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0' - 1.5') CONCRETE				
2		(1.50' - 6.20') CLAY low plasticity; some fine- medium sand; dry; stiff; (10YR 4/3 Brown)	SQ-209 1.5'-2.0'	-	1.0	
4				-	1.4	
				-	1.0	
6				-	0.5	
				-	0.0	
8		(6.2' - 8.10') SAND fine- medium; well sorted; moist; (10YR 3/3 Dark Brown)	SQ-209 7.0' - 8.0'	-	1.4	
				-	1.7	
10		(8.10' - 25.0') CLAY high plasticity; little fine sand; trace granules; small pebbles; subangular; dry; stiff; (10YR 4/1 Dark Grey)		-	0.0	
				-	0.1	
12				-	0.0	
				-	0.0	
14			SQ-209 13.0' - 14.0'	-	0.0	
				-	0.0	
16				-	0.0	
				-	0.0	
18				-	0.0	
				-	0.0	
20			SQ-209 19.0' - 20.0'	-	0.0	
				-	0.0	
22				-	0.0	
				-	0.0	
24				-	0.0	
				-	0.0	
26						

Completion Notes: EOB@ 25' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 9.25.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 449822.4993 Easting: 13065744.36 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 871.83 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A7-ST221 Client: RACER Location: RACER Lansing Plant 6
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
870		1	0.0-5.0	3.1	0.0			(0.0-0.3') TOPSOIL.	
					0.0			(0.3-9.5') SAND, fine, trace small pebbles, subrounded; well sorted; moist; dark yellowish brown (10YR 4/6).	
					0.0				
					0.0			NOTE: Concrete at 3.0' bgs.	
					0.0				
5					0.0				
					0.0				
865		2	5.0-10.0	3.5	0.0				
					0.0			NOTE: Concrete at 8.0' bgs.	
					0.0				
					0.0				
10					0.0			(9.5-19.0') CLAY, high plasticity; little fine sand, trace small pebbles, subangular; most; medium stiff; dark gray (10YR 4/2).	
					0.0			NOTE: Slight odor from 9.5-16.0' bgs.	
					0.0				
860		3	10.0-15.0	3.7	0.0				
					0.0				

	Remarks: bgs = below ground surface Groundwater not encountered. Odor observed from 9.5'-16.0' bgs. No staining observed.
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Date Start/Finish: 9.25.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 449822.4993 Easting: 13065744.36 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 871.83 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A7-ST221 Client: RACER Location: RACER Lansing Plant 6
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15					0.0				
					0.0				
855		4	15.0-20.0	3.8	0.0				
					0.0				
					0.0				
					0.0				
					0.0				
20					0.0			(19.0-20.0') CLAY, low plasticity; and SAND, fine to medium; moist; soft; gray (10YR 5/1).	
					0.0				
850		5	20.0-25.0	4.8	0.0			(20.0-30.0') CLAY, high plasticity; trace fine sand, trace granules to small pebbles, angular; dry; stiff; gray (10YR 5/1).	
					0.0				
					0.0				
					0.0				
25					0.0				
					0.0				
845		6	25.0-30.0	5.0	0.0				
					0.0				
					0.0				

	Remarks: bgs = below ground surface Groundwater not encountered. Odor observed from 9.5'-16.0' bgs. No staining observed.
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Date Start/Finish: 9.25.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 449822.4993 Easting: 13065744.36 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 871.83 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A7-ST221 Client: RACER Location: RACER Lansing Plant 6
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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30					0.0			End of boring at 30.0' bgs.	
35									
40									
45									

	Remarks: bgs = below ground surface Groundwater not encountered. Odor observed from 9.5'-16.0' bgs. No staining observed.
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Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A7-SX-206

Project Name: RACER Lansing Plants

Date Drilled: 6/4/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0' - 7.0') SAND fine-course; subrounded; poorly sorted; moist (10YR 4/3 Brown)(fill)	SX-206 1.0' - 2.0'			
2				-	1.0	
				-	1.4	
4				-	1.0	
				-	0.5	
6				-	0.0	
			SX-206 6.0' - 7.0'	-	1.4	
8		(7.0' - 14.1') CLAY and fine sand; trace small pebbles;subrounded; moist; soft; (10YR 4/1 Dark Grey)		-	1.7	
				-	0.0	
10				-	0.1	
				-	0.0	
12				-	0.0	
				-	0.0	
14		(14.1' - 14.8') SAND fine; well sorted; (10YR 5/1 Grey)	SX-206 14.0' - 15.0'	-	0.0	
		(14.80' - 14.8') CLAY high plasticity; little fine sand; trace granules to medium pebbles;angular; dry; stiff; (10YR 4/1Grey)(till)		-	0.0	
16				-	0.0	
				-	0.0	
18				-	0.0	
				-	0.0	
20			SX-206 19.0' - 20.0'	-	0.0	

Completion Notes: EOB@ 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 449767.40 Easting: 13065620.70 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 866.36 Descriptions By: A. Villhauer	Well/Boring ID: SB-A7-SZ209 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
865		1	1.0-5.0	4.0	0.0			(0.0-1.0) CONCRETE.	
					0.0			(1.0-5.0) SAND, fine to medium; well sorted; moist; brown (10YR 5/3).	
					0.0			NOTE: FILL.	
					0.0				
5					0.0			(5.0-7.0) SAND, fine; little clay; moist; brown (10YR 4/3).	
860					0.0			NOTE: FILL.	
					0.0				
		2	5.0-10.0	4.0	0.0			(7.0-10.0) CONCRETE, debris.	
					0.0				
10					0.0			(10.0-20.0) SAND, fine, trace small pebbles, subround; well sorted; wet; brown (10YR 5/3).	
855					0.0			NOTE: concrete fragments from 10.0'-20.0' bgs.	
					0.0			NOTE: FILL.	
		3	10.0-15.0	1.5	0.0				
					0.0				

	Remarks: BGS = Below ground surface Groundwater encountered at 10.0' bgs No Odor or Staining detected Groundwater sample collected from 11.0-14.0' bgs
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Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 449767.40 Easting: 13065620.70 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 866.36 Descriptions By: A. Villhauer	Well/Boring ID: SB-A7-SZ209 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15					0.0				
	850				NA				
		4	15.0-20.0	1.0	NA				
					0.0				
					NA				
					NA				
20					0.0			(20.0-25.0) CLAY, high plasticity; little fine sand, trace granule to small pebbles, subangular; dry; stiff; gray (10YR 5/1).	
	845				0.0				
		5	20.0-25.0	4.5	0.0				
					0.0				
					0.0				
25					0.0			End of boring at 25.0' bgs.	
	840								
30									

	Remarks: BGS = Below ground surface Groundwater encountered at 10.0' bgs No Odor or Staining detected Groundwater sample collected from 11.0-14.0' bgs
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Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A7-SZ-212

Project Name: RACER Lansing Plants

Date Drilled: 6/4/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0' - 5.0') SAND fine-medium; trace small pebbles; subrounded; well sorted; dry; (10YR 3/3 Dark Brown)		-	0.0	
2			SZ-212 1.0' - 2.0'	-	0.0	
				-	0.0	
4				-	0.0	
				-	0.0	
6		(5.0' - 6.8') CLAY high plasticity; fine sand; trace small pebbles; subangular; dry; stiff; (10YR 4/3 Brown)		-	0.0	
				-	0.0	
8		(6.8' - 8.0') SAND fine- coarse; sub angular; poorly sorted; moist; (10YR 6/3 Pale Brown)	SZ-212 7.0' - 8.0'	-	0.0	
				-	0.0	
10		(8.0' - 11.5') CLAY low plasticity; some fine sand; dry; medium stiff; (10YR 3/3 Dark Brown)		-	0.0	
				-	0.0	
12		(11.50' - 14.0') CLAY high plasticity; trace silt; moist; soft; (10YR 5/1 Grey)		-	0.0	
				-	0.0	
14			SZ-212 13.0' - 14.0'	-	0.0	
		(14.0' - 20.0') CLAY high plasticity; little fine sand; trace granuals-small pebbles; angular; (10YR 4/1 Dark Grey) (till)		-	0.0	
16				-	0.0	
				-	0.0	
18				-	0.0	
				-	0.0	
20			SZ-212 19.0' - 20.0'	-	0.0	

Completion Notes: EOB@ 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A7-SZ-217

Project Name: RACER Lansing Plants

Date Drilled: 6/4/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0' - 5.0') SAND fine- medium; trace small pebbles; subrounded; well sorted; dry;(10YR 4/3 Brown) (fill)		-	0.0	
2			SZ-221 1.0' - 2.0'	-	0.0	
4				-	0.0	
				-	0.0	
			SZ-221 4.0' - 5.0'	-	0.0	
6		(5.0' - 10.0') CLAY low plasticity; some fine sand; trace granules; small pebbles; subangular; dry; stiff; (10YR 3/3 Dark Brown)		-	0.0	
8				-	0.0	
				-	0.0	
10		(10.0' - 12.6') CLAY and fine sand; trace silt; moist, soft; (10YR 4/1 Dark Grey)		-	0.0	
12				-	0.0	
			SZ-221 12.0' - 13.0'	-	0.0	
14		(12.6' - 13.0') SAND small to large pebbles; subrounded; some fine - medium sand; poorly sorted; moist (10YR 4/1 Dark Grey)		-	0.0	
				-	0.0	
16		(13.0' - 20.0') CLAY high plasticity; little fine sand; trace coarse sand-small pebbles; subangular; moist; medium-stiff; (10YR 4/1Dark Grey)		-	0.0	
18				-	0.0	
			SZ-221 18.0' - 19.0'	-	0.0	
20				-	0.0	

Completion Notes: EOB@ 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 9.25.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 449743.0712 Easting: 13065734.77 Casing Elevation: NA Borehole Depth: 10.0' bgs Surface Elevation: 865.91 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A7-TB220 Client: RACER Location: RACER Lansing Plant 6
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
865		1	0.0-5.0	3.5	0.0			(0.0-0.3') TOPSOIL.	
					0.0			(0.3-10.0') SAND, fine, trace small to large pebbles, subangular; well sorted; moist; dark yellowish brown (10YR 4/6).	
					0.0				
					0.0				
5					0.0				
860		2	5.0-10.0	3.5	1.9				
					4.6				
					45.8				
					987				
10					1241				
855								End of boring at 10.0' bgs due to Refusal.	

	Remarks: bgs = below ground surface Groundwater not encountered. Black staining and odor observed from 8.0'-10.0' bgs.
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Boring Log .

Project No.: 01-4172-0

Boring No.: SB-A7-TD120

Project Name: RACER Lansing Plants

Date Drilled: 11/06/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		SW- (0.0 - 1.0) SAND fine to medium, poorly sorted; moist; dark brown (10YR 3/3)		-	0.0	
2		SWG- (1.0 - 3.0) SAND fine to coarse, some small to large pebbles, subangular; trace clay, moist; poorly sorted; very dark brown (10YR 2/2)	TD-120 2.0' - 3.0'	-	0.0	
4		Note: contains glass/debris		-	0.0	
		CL- (3.0 - 10.5) CLAY low plasticity; little fine sand, trace small pebbles, subangular; dry; medium stiff; brown (10YR 4/3)		-	0.0	
6		Note: some organics at 9.0' - 9.5'		-	0.0	
8			TD-120 8.0' - 9.0'	-	0.0	
10				-	0.0	
		CH- (10.5 - 20.0) CLAY high plasticity; moist; soft; gray (10YR 5/1)		-	0.0	
12				-	0.0	
14			TD-120 14.0' - 15.0'	-	0.0	
16				-	0.0	
18				-	0.0	
20			TD-120 19.0' - 20.0'	-	0.0	

Completion Notes: End Of Boring at 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4172-0

Boring No.: SB-A7-TD212

Project Name: RACER Lansing Plants

Date Drilled: 11/29/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE		No Well Installed		
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts		PID (ppm)	
0		Ground Surface					
		(0.0 - 0.3) TOPSOIL / GRASS		-	0.0		
		SP- (0.3 - 2.0) SAND fine; trace granules to small pebbles, subangular; well sorted; moist; dark brown (10YR 3/3)		-	0.0		
2		CL- (2.0 - 3.5) CLAY low plasticity; little fine sand, trace granules, subangular; moist; medium stiff; dark brown (10YR 3/3)		-	0.0		
		OL- (3.5 - 8.2) ORGANICS AND CLAY low plasticity; moist; very dark brown (10YR 2/2)		-	0.0		
4				-	0.0		
				-	0.0		
6				-	0.0		
				-	0.0		
8		CH- (8.2 - 11.2) CLAY high plasticity; moist; soft; gray (10YR 5/1)		TD-212 8.0' - 8.5'	-		0.0
				-	0.0		
10				TD-212 10.0' - 10.5'	-		0.0
			-	0.0			
12		SP- (11.2 - 12.5) SAND fine; well sorted; saturated; gray (10YR 5/1)	TD-212	-	0.0		
		CH- (12.5 - 15.0) CLAY high plasticity; trace fine sand, trace granules to small pebbles, subangular; moist; medium; stiff; gray (10YR 5/1)		-	0.0		
14				-	0.0		
				-	0.0		
			11.0' - 15.0'				
16							

Completion Notes: End Of Boring at 15' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4172-0

Boring No.: SB-A7-TI208

Project Name: RACER Lansing Plants

Date Drilled: 11/07/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0		CLS- (0.0 - 1.0) CLAY low plasticity; and fine sand, trace small pebbles, subrounded; moist; dark brown (10YR 3/3)		-	0.0	
2				-	0.0	
2				-	0.0	
4		SP- (1.0 - 5.0) SAND fine; well sorted; moist; brown (10YR 4/3)		-	0.0	
4			TI-208 4.0' - 5.0'	-	0.0	
6		CLS- (5.0 - 6.5) CLAY low plasticity; and fine sand, trace granules, subangular; moist; medium stiff; brown (10YR 4/3)		-	0.0	
6				-	0.0	
8				-	0.0	
8		CH- (6.5 - 20.4) CLAY high plasticity; trace fine sand, moist; soft; gray (10YR 5/1)		-	0.0	
10				-	0.0	
10		Note: seam of moist fine to medium sand (SP) at 11.0' - 11.6' bgs SP		-	0.0	
12				-	0.0	
12				-	0.0	
14				-	0.0	
14				-	0.0	
16			TI-208 15.0' - 16.0'	-	0.0	
16				-	0.0	
18				-	0.0	
18				-	0.0	
20			TI-208	-	0.0	
20		SP- (20.4 - 25.0) SAND fine to medium; well sorted; saturated; gray (10YR 5/1)		-	0.0	
22				-	0.0	
22				-	0.0	
24			20.0' - 24.0'	-	0.0	
24				-	0.0	
26		CH- (25.0 - 30.0) CLAY high plasticity; trace fine sand, trace granules to small pebbles, subangular to angular; dry; stiff; gray (10YR 5/1)		-	0.0	
26				-	0.0	
28				-	0.0	
28				-	0.0	
30			TI-208 29.0' - 30.0'	-	0.0	
30						

Completion Notes: End Of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4172-0

Boring No.: SB-A7-TI227

Project Name: RACER Lansing Plants

Date Drilled: 11/06/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE		No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts PID (ppm)	
0		Ground Surface			
2		CLS- (0.0 - 2.0) CLAY low plasticity; and fine sand, trace small pebbles, subangular; moist; brown (10YR 4/3)		- 0.0	
4		SP- (2.0 - 4.0) SAND fine, well sorted; moist; brown (10YR 4/3)	TI-227 3.0' - 4.0'	- 0.0	
6		CH- (4.0 - 20.0) CLAY high plasticity; trace fine sand, trace granules to small pebbles, subangular; dry; gray (10YR 5/1)		- 0.0	
8				- 0.0	
10				- 0.0	
12				- 0.0	
14				- 0.0	
16				- 0.0	
18				- 0.0	
20				- 0.0	
22				- 0.0	
24				- 0.0	
26				- 0.0	
28				- 0.0	
30			- 0.0		

Completion Notes: End Of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 5/17/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451818.64 Easting: 13065114.14 Casing Elevation: NA Borehole Depth: 10.0' bgs Surface Elevation: 860.33 Descriptions By: Megan Meckley	Well/Boring ID: SB-A8-LC158 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	860							(0.0-1.0) CONCRETE	
		1	0.0-5.0	5.0	NA			(1.0-2.0) SAND, fine to medium, trace granules, subangular; trace clay; poorly sorted; lightly moist; light brown (10YR 4/4).	
					0.0			(2.0-3.0) SAND, very fine to medium, trace granules to small pebbles, subrounded; little clay, trace silt; poorly sorted; slightly moist; dark brown (10YR 2/2).	
					0.1			(3.0-4.0) SAND, very fine to medium, trace small to large pebbles, subrounded; some clay, high plasticity; soft; poorly sorted; dry; dark brown (10YR 4/2).	
					0.7			(4.0-5.5) SAND, fine to medium, trace coarse sand, trace granules to small pebbles, subangular to subrounded, poorly sorted; dry; dark brown (10YR 3/2).	
5	855				0.1			NOTE: interbedded thin layers of clay; from 5.0'-5.5' bgs.	
		2	5.0-10.0	4.4	0.0			(5.5-5.8) CLAY, medium plasticity; no dilatancy; medium stiff; and SAND, very fine; dry; brown (10YR 4/4).	
					0.0			(5.8-6.5) SILT, high plasticity; trace very fine sand; rapid dilatancy; soft to medium stiff; dry; black (10YR 2/1).	
					0.0			(6.5-8.0) CLAY, little silt, high plasticity; slow dilatancy; soft to medium stiff; gray (10YR 5/1) with brown mottling (10YR 4/3).	
					0.0			NOTE: changes to very soft; wet; at 7.8' bgs.	
					0.0			(8.0-9.8) SAND, very fine to fine; little silt, trace clay; poorly sorted; wet; gray (10YR 5/2).	
					0.0			(9.8-10.0) CLAY, trace silt, medium plasticity; slow dilatancy; medium stiff; dry; gray brown (10YR 4/2).	
10	850							End of boring at 10.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected at 7.8' and between 8.0'-9.8' bgs No odor or staining observed
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Date Start/Finish: 5/17/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451787.83 Easting: 13065084.55 Casing Elevation: NA Borehole Depth: 4.0' bgs Surface Elevation: 861.07 Descriptions By: Megan Meckley	Well/Boring ID: SB-A8-LF155 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860		1	0.0-4.0	4.0	0.4			(0.0-0.6) CONCRETE	
					1.4			(0.6-2.0) SAND, fine to coarse, trace small to medium pebbles, subrounded to subangular; poorly sorted; dry; yellowish brown (10YR 5/6).	
					0.7			(2.0-3.0) SAND, medium to coarse, little medium to large pebbles, subrounded; trace clay; poorly sorted; dry; light brown (10YR 4/3).	
					0.6			(3.0-4.0) SAND, fine to medium, trace coarse sand, trace medium to large pebbles, subrounded; trace clay; dry; light yellowish brown.	
5								End of boring at 4.0' bgs due to refusal	
855									
10									
850									

	Remarks: BGS = Below ground surface Groundwater not detected No odor or staining detected
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Date Start/Finish: 5/23/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451783.08 Easting: 13065085.01 Casing Elevation: NA Borehole Depth: 10.0' bgs Surface Elevation: 861.07 Descriptions By: Megan Meckley	Well/Boring ID: SB-A8-LF155A Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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DEPTH (ft)	DIAMETER (in)	SOIL TYPE	SOIL DESCRIPTION	REMARKS
0.0		CONCRETE	(0.0-0.8) CONCRETE	
0.8		SAND	(0.8-7.0) SAND, fine to medium, little granules to small pebbles, subrounded to subangular; trace silt; poorly sorted; dry; dark yellowish brown (10YR 4/6).	
3.0		CLAY	(7.0-7.2) CLAY, trace silt, medium plasticity; rapid dilatancy; soft to medium stiff; dark yellowish brown (10YR 4/6).	
6.0		SAND	(7.2-8.2) SAND, fine to medium, little granules to small pebbles, subrounded to subangular; trace silt; poorly sorted; dry; dark yellowish brown (10YR 4/6).	
8.2		CLAY	(8.2-9.5) CLAY, little silt, high plasticity; rapid dilatancy; moist; soft; light gray brown (10YR 5/2).	
10.0		SAND	(9.5-10.0) SAND, very fine to fine, some medium to coarse, trace granules, subrounded to subangular; little silt; poorly sorted; wet; gray brown.	
10.0		END OF BORING	End of Boring 10.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 6.2'-6.5' and 9.5'-10.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/17/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451787.68 Easting: 13065144.80 Casing Elevation: NA Borehole Depth: 10.0' bgs Surface Elevation: 861.02 Descriptions By: Megan Meckley	Well/Boring ID: SB-A8-LF161 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860		1	0.0-5.0	5.0	0.2			(0.0-0.5) CONCRETE	
					0.1			(0.5-3.5) SAND, fine to medium, trace coarse sand to small pebbles, subrounded; poorly sorted; dry; light yellowish brown (10YR 5/6).	
					0.7			NOTE: granules to pebbles, subangular; at 2.5' bgs.	
					0.3			(3.5-6.0) SAND, medium, trace coarse sand, little granules to small pebbles, subrounded; trace clay; poorly sorted; moist, brown (10YR 4/3).	
5					0.9			NOTE: medium to coarse sand; wet; at 4.5' bgs.	
855		2	5.0-9.0	2.7	0.0			(6.0-7.5) SAND, medium to very coarse, little granules to medium pebble, subangular to subrounded; trace clay; poorly sorted; wet to moist; brown (10YR 3/3).	
					0.0			(7.5-8.0) SAND, medium to coarse, trace fine; well sorted; wet; light brown (10YR 4/2).	
					0.0			(8.0-10.0) CLAY, trace silt, medium plasticity; slow dilatancy; dry; medium stiff; dark yellow brown (10YR 3/4).	
10		3	9.0-10.0	1.0	0.0				
850								End of boring at 10.0' bgs	

	Remarks: BGS = Below ground surface Groundwater detected between 6.0'-7.5' and 7.5'-8.0' bgs No odor or staining detected
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Date Start/Finish: 5/17/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 13065114.45 Easting: 451767.64 Casing Elevation: NA Borehole Depth: 10.0' bgs Surface Elevation: 861.02 Descriptions By: Megan Meckley	Well/Boring ID: SB-A8-LH158 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860		1	0.0-5.0	5.0	1.1	X	(0.0-0.6) CONCRETE		
					0.1	X	(0.6-1.2) SAND, fine to medium, trace granules to small pebbles, subrounded to subangular; trace silt; poorly sorted; dry; yellow brown (10YR 4/4).		
					1.1	X	(1.2-2.0) SAND, very fine to medium, trace small to medium pebbles, subrounded; trace clay to silt; poorly sorted; dry; dark brown (10YR 3/1). NOTE: concrete at 2.0' bgs.		
					0.2	X	(2.0-4.0) SAND, medium, trace coarse sand, trace medium to large pebbles, subrounded; trace silt to clay; poorly sorted; dry; dark brown (10YR 3/2). NOTE: odor.		
					1.1	X	(4.0-5.2) SAND, medium, trace coarse sand, trace granules to small pebbles, subrounded to subangular; trace silt; poorly sorted; moist; brown (10YR 3/4).		
5					0.0	X	(5.2-6.0) SAND, medium to coarse, little granules to small pebbles, subrounded to subangular; trace silt; poorly sorted; dark brown (10YR 3/1).		
855		2	5.0-10.0	5.0	0.1	X	(6.0-6.1) CLAY, medium plasticity; trace very fine sand; medium stiff; dry; brown (7.5 YR 4/4).		
					0.0	X	(6.1-8.0) SAND, very fine; little silt; well sorted; dry; black (10YR 2/1). NOTE: transition to some silt; color change to dark gray (10YR 3/1); at 6.8' bgs.		
					0.0	X	NOTE: color change to light brown (10YR 4/4); at 7.8' bgs.		
					0.0	X	(8.0-8.9) SAND, fine to medium, trace granules, trace large pebbles, subangular to subrounded; poorly sorted; moist; light brown (10YR 4/4).		
					0.0	X	(8.9-10.0) CLAY, trace silt, low plasticity; stiff to very stiff; dry; brown (10YR 5/4).		
10							End of boring at 10.0' bgs		
850									

	Remarks: BGS = Below ground surface No Groundwater detected No odor or staining detected
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Date Start/Finish: 5/17/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451737.74 Easting: 13065214.62 Casing Elevation: NA Borehole Depth: 8.0' bgs Surface Elevation: 861.32 Descriptions By: Megan Meckley	Well/Boring ID: SB-A8-LK168 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860		1	0.0-5.0	5.0	NA			(0.0-1.0) CONCRETE	
					0.0			(1.0-4.0) SAND, very fine to fine, trace coarse sand, trace granules, subangular to subrounded; trace clay; poorly sorted; dry; yellowish brown (10YR 3/6).	
					0.0			NOTE: transition to fine to medium sand; slightly moist; at 2.0' bgs.	
					0.0			NOTE: little coarse sand; wet; at 3.0' bgs.	
5					0.0			(4.0-7.8) SAND, medium to very coarse, trace medium pebbles, subrounded to subangular; poorly sorted; wet; light yellow brown (10YR 4/4). NOTE: coarser sand towards bottom; little granules.	
855		2	5.0-8.0	1.5	0.0				
					1.3			(7.8-8.0) SAND, medium; trace granules, subrounded; well sorted; wet; black (10YR 2/1). NOTE: strong odor present. NOTE: metal above concrete at very bottom of core.	
								End of boring at 8.0' bgs due to refusal	
10									
850									

	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-7.8' and 7.8'-8.0' bgs Odor detected between 7.8'-8.0' bgs
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Date Start/Finish: 5/23/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451727.44 Easting: 13065184.20 Casing Elevation: NA Borehole Depth: 8.0' bgs Surface Elevation: 861.30 Descriptions By: Megan Meckley	Well/Boring ID: SB-A8-LL165 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860		1	0.0-5.0	5.0	NA			(0.0-1.2) CONCRETE	
					0.0			(1.2-8.0) SAND, medium, little fine sand, little granules to small pebbles, subrounded to subangular; trace clay; poorly sorted; dry; dark yellowish brown.	
					0.0			NOTE: medium to coarse sand; no clay; moist at 2.0' bgs.	
					0.0			NOTE: wet; trace silt; at 4.0' bgs.	
					0.0			NOTE: little granules to small pebbles, subrounded to subangular; wet at 6.0' bgs.	
					0.0			NOTE: gark gray; odor at 7.8' bgs.	
5									
855		2	5.0-8.0	1.0	NA				
					NA				
					NA				
10									
850									
15									

	Remarks: BGS = Below ground surface Groundwater detected at 4.0' and 6.0' bgs Odor detected at 7.8' bgs No staining observed
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Date Start/Finish: 5/18/12 Drilling Company: Stock Driller's Name: Chris B Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451708.90 Easting: 13065165.72 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.27 Descriptions By: Megan Meckley	Well/Boring ID: SB-A8-LN163 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0								(0.0-1.1) CONCRETE	
860		1	0.0-5.0	5.0	0.0	X		(1.1-6.0) SAND, medium, trace small to medium pebbles, subrounded to angular; trace clay; poorly sorted; dry; brown (10YR 4/3). NOTE: thin concrete layer around 2.5' bgs. NOTE: transition to very large pebbles at 3.0' bgs. NOTE: moist at 4.0' bgs. NOTE: wet at 5.0' bgs.	
5					0.2	X			
					0.0				
855		2	5.0-9.0	2.6	0.0	X		(6.0-6.2) CLAY, little silt, high plasticity; little very fine to fine sand; rapid dilatancy; moist; soft to medium stiff; brown. (6.2-6.5) SAND, fine to medium, trace coarse sand, subrounded; trace silt; poorly sorted; wet; brown (10YR 4/4). (6.5-7.0) CLAY, little silt, high plasticity; little very fine to fine sand; rapid dilatancy; moist; soft to medium stiff; brown (10YR 3/6). (7.0-7.7) SAND, fine to medium, trace coarse sand, subrounded; trace silt; poorly sorted; wet; brown (10YR 4/4). (7.7-8.0) CLAY, little silt, high plasticity; little very fine to fine sand; rapid dilatancy; moist; soft to medium stiff; brown. (8.0-8.3) SAND, medium to coarse, trace granules, subangular to subrounded; trace silt; poorly sorted; wet; light brown (10YR 5/8). (8.3-9.4) CLAY, trace silt, low plasticity; trace granules, subangular; slow dilatancy; dry; medium stiff to stiff; brown (10YR 3/6) to light brown (10YR 4/3). (9.4-13.0) Poor Recovery (0.4').	
					0.0				
10		3	9.0-13.0	0.4	0.0	X			
850					NA				
					NA				
					0.0				
15		4	13.0-17.0	0.5	NA	X		(13.0-17.0) SILT, some clay, high to medium plasticity; trace very fine sand; rapid dilatancy; moist; soft to medium stiff; grayish brown (10YR 3/2). NOTE: poor recovery (0.5') from 13.0'-17.0' bgs..	
845					NA				
					0.2	X			
								End of boring at 17.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected at 5.0' and between 6.2'-6.5', 7.0'-7.7' and 8.0'-8.3' bgs No Odor or Staining detected
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Date Start/Finish: 5/18/12 Drilling Company: Stock Driller's Name: Chris B Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451707.36 Easting: 13065215.78 Casing Elevation: NA Borehole Depth: 19.0' bgs Surface Elevation: 861.30 Descriptions By: Megan Meckley	Well/Boring ID: SB-A8-LN168 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860		1	0.0-5.0	5.0	NA			(0.0-1.0) CONCRETE	
					0.7			(1.0-5.0) SAND, very fine to fine, trace medium sand, trace granules, subangular; trace silt; poorly sorted; dry; brown.	
					0.9			NOTE: trace small to medium pebbles, subrounded to subangular; at 3.0' bgs.	
					0.8				
					0.8				
5					0.0			(5.0-19.0) SAND, very fine to fine, trace medium sand, subrounded; little silt; well sorted; dry; light brown.	
855		2	5.0-9.0	2.8	0.0			NOTE: moist at 8.0' bgs.	
					0.0			NOTE: wet at 9.0' bgs.	
					0.1			NOTE: moist to wet from 10.0'-19.0' bgs.	
10					0.0				
850		3	9.0-13.0	2.2	0.2				
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected at 9.0' and between 10.0'-19.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/18/12 Drilling Company: Stock Driller's Name: Chris B Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451707.36 Easting: 13065215.78 Casing Elevation: NA Borehole Depth: 19.0' bgs Surface Elevation: 861.30 Descriptions By: Megan Meckley	Well/Boring ID: SB-A8-LN168 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	845	4	13.0-17.0	2.3	0.0 0.0 0.1 0.0				
		5	17.0-19.0	3.0	0.0 0.2				
20	840							End of boring at 19.0' bgs	
25	835								

	Remarks: BGS = Below ground surface Groundwater detected at 9.0' and between 10.0'-19.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/18/12 Drilling Company: Stock Driller's Name: Chris B Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451863.53 Easting: 13065193.41 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 861.44 Descriptions By: Megan Meckley	Well/Boring ID: SB-A8-LP166 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0								(0.0-1.0) CONCRETE	
860		1	0.0-5.0	5.0	NA	X		(1.0-6.2) SAND, fine to medium, trace granules, subrounded; trace silt; poorly sorted; dry; brown.	
					0.1				
					0.3				
					0.1			NOTE: trace medium to large pebbles, subrounded to angular; moist; at 4.0' bgs.	
5					0.6				
		2	5.0-9.0	4.0	0.1	X		(6.2-7.4) SAND, medium, little fine sand, trace granules to small pebbles, subrounded; trace clay; poorly sorted; wet; grayish brown (10YR 3/2).	
855					0.2			NOTE: color change to black (10YR 2/1); strong odor; from 7.0'-7.4' bgs.	
					0.7			(7.4-7.6) SAND, fine, trace granules, subrounded; little clay, trace silt; poorly sorted; wet; brown/black (10YR 2/2).	
					0.1			(7.6-10.7) CLAY, little silt, low to medium plasticity; slow dilatancy; dry; stiff to very stiff, yellowish brown with gray (10YR 5/6 w/ 10YR 5/2).	
10					0.0				
		3	9.0-13.0	3.0	0.1			(10.7-11.1) SAND, fine, trace granules, subrounded to subangular; well sorted; moist; gray (10YR 5/2).	
850					0.0			(11.1-13.8) CLAY, trace silt, medium plasticity; trace coarse sand, subangular to subround; rapid dilatancy; dry; medium stiff; brown (10YR 4/6) with grayish brown (10YR 4/2).	
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected at 5.0' and between 6.2'-7.6' and 19.4'-20.0' bgs Odor detected between 7.0'-7.4' bgs No Staining detected
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Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A9-NT-220

Project Name: RACER Lansing Plants

Date Drilled: 6/4/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0' - 0.9') CONCRETE		-	0.0	
		(0.9' - 7.0') SAND fine-medium; well sorted; moist;(10YR 4/3 Brown) (fill) Note: Staining (Black) sweet odor 5-7'		-	0.0	
2				-	0.0	
				-	0.0	
4				-	0.0	
				-	0.0	
6				-	0.0	
			NT-220 6.0' - 7.0'	-	0.0	
8		(7.0' - 8.5') CLAY and fine sand with trace coarse sand; subangular;moist; soft;(10YR 4/1 Dark Grey)		-	0.0	
				-	0.0	
10		(8.5' - 20.0') CLAY high plasticity; little fine sand; trace granules small pebbles; subangular; dry; stiff;(10YR 4/3 Brown) Note: Organic debris 8.5' to 10.5' Note: Greenish discoloration 10.0' to 11.0' Note: Gradual color change to (10YR 4/1darkgray) @ 16.0'	NT-220 10.0' - 11.0'	-	0.0	
				-	0.0	
12				-	0.0	
				-	0.0	
14				-	0.0	
				-	0.0	
16				-	0.0	
				-	0.0	
18				-	0.0	
			NT-220 19.0' - 20.0'	-	0.0	
20						

Completion Notes: EOB@ 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 9.25.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450177.0241 Easting: 13065593.23 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 874.06 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A9-RK206 Client: RACER Location: RACER Lansing Plant 6
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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875									
0								(0.0-1.1') CONCRETE.	
		1	0.0-5.0	1.5	NA			(1.1-5.0') SAND, fine; well sorted; moist; dark yellowish brown (10YR 4/6).	
					0.0				
					NA				
870					0.0				
					NA				
5								(5.0-10.0') CLAY, high plasticity; trace fine sand, trace granules to small pebbles, subangular; dry; stiff; brown (10YR 4/3).	
		2	5.0-10.0	3.5	0.0				
					0.0				
					0.0				
865					0.0				
					0.0				
10								(10.0-15.0') No Recovery.	
		3	10.0-15.0	0.0	NA				
					NA				
					NA				
					NA				

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 9.25.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450177.0241 Easting: 13065593.23 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 874.06 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A9-RK206 Client: RACER Location: RACER Lansing Plant 6
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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860					NA				
15					NA				
		4	15.0-20.0	3.8	0.0	X		(15.0-30.0') CLAY, high plasticity; trace fine sand, trace granules to small pebbles, angular; dry; medium stiff; gray (10YR 5/1).	
					0.0				
855					0.0				
20					0.0				
		5	20.0-23.0	3.0	0.0	X		NOTE: Stiff at 20.0' bgs.	
					0.0				
850					0.0				
25		6	23.0-27.0	4.0	0.0				
					0.0				
					0.0				
					0.0				
					0.0				
		7	27.0-30.0	3.0	0.0	X			
					0.0				
845					0.0				

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 9.25.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450177.0241 Easting: 13065593.23 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 874.06 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A9-RK206 Client: RACER Location: RACER Lansing Plant 6
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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845					0.0				
30								End of boring at 30.0' bgs.	
840									
35									
835									
40									
830									
45									

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 5/31/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450141.46 Easting: 13065606.63 Casing Elevation: NA Borehole Depth: 18.0' bgs Surface Elevation: 873.29 Descriptions By: A.Villhaner	Well/Boring ID: SB-A9-RO207 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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875									
0									
		1	0.0-5.0	5.0	0.0			(0.0-3.0) SAND, fine to medium, little small to large pebbles, subrounded; poorly sorted; dry; brown (10YR 4/3). NOTE: FILL.	
					0.1				
					0.1				
870					0.4			(3.0-18.0) CLAY, high plasticity; trace fine sand, trace granules to small pebbles, subangular; dry; stiff; brown (10YR 4/3).	
					1.1				
5					0.2				
		2	5.0-10.0	5.0	0.1				
					0.0				
865					0.0				
					0.0				
10					0.0				
		3	10.0-15.0	5.0	0.0			NOTE: color change to dark gray (10YR 4/1) at 12.5' bgs.	
					0.0				

	Remarks: BGS = Below ground surface No Groundwater detected No Odor detected No Staining detected
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Date Start/Finish: 5/31/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450141.46 Easting: 13065606.63 Casing Elevation: NA Borehole Depth: 18.0' bgs Surface Elevation: 873.29 Descriptions By: A.Villhaner	Well/Boring ID: SB-A9-RO207 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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860					0.0				
15					0.0				
		4	15.0-18.0	3.0	0.0				
					0.0				
					0.0				
855								End of Boring 18.0' bgs.	
20									
850									
25									
845									



Borehole
backfilled with
Grout.

	Remarks: BGS = Below ground surface No Groundwater detected No Odor detected No Staining detected
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Date Start/Finish: 5/31/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450131.45 Easting: 13065666.54 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 872.80 Descriptions By: A. Villhaner	Well/Boring ID: SB-A9-RP213 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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875									
0									
		1	0.0-5.0	5.0	0.3	X		(0.0-5.0) SAND, fine to medium, trace small to medium pebbles, subrounded; well sorted; dry; brown (10YR 4/3). NOTE: FILL.	
					0.3				
870					0.4				
					0.5				
					0.5	X			
5									
		2	5.0-10.0	4.5	0.0			(5.0-7.5) CLAY, high plasticity; trace fine sand, trace granules, subangular; dry; stiff; brown (10YR 4/3).	
					0.0				
865					0.0			(7.5-17.0) CLAY, trace silt, high plasticity; some fine sand, trace granules to small pebbles, subangular; moist; soft; brown (10YR 4/3).	
					0.0				
					0.0				
10					0.0	X			
					0.0				
		3	10.0-15.0	3.2	0.0				
					0.0				
860					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Date Start/Finish: 5/31/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450131.45 Easting: 13065666.54 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 872.80 Descriptions By: A. Villhaner	Well/Boring ID: SB-A9-RP213 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15					0.0				
					0.0				
					0.0				
		4	15.0-20.0	5.0	0.0				
855					0.0			(17.0-20.0) CLAY, high plasticity; little fine sand, trace granules to large pebbles, subangular; dry; stiff; dark gray (10YR 4/1). NOTE: TILL.	
					0.0				
					0.0				
20					0.0			End of Boring 20.0' bgs	
850									
25									
845									

	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Date Start/Finish: 5/30/12-5/31/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450065.85 Easting: 13065628.29 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 873.33 Descriptions By: A. Villhaner	Well/Boring ID: SB-A9-RV209 Client: RACER Trust Location: Lansing, MI
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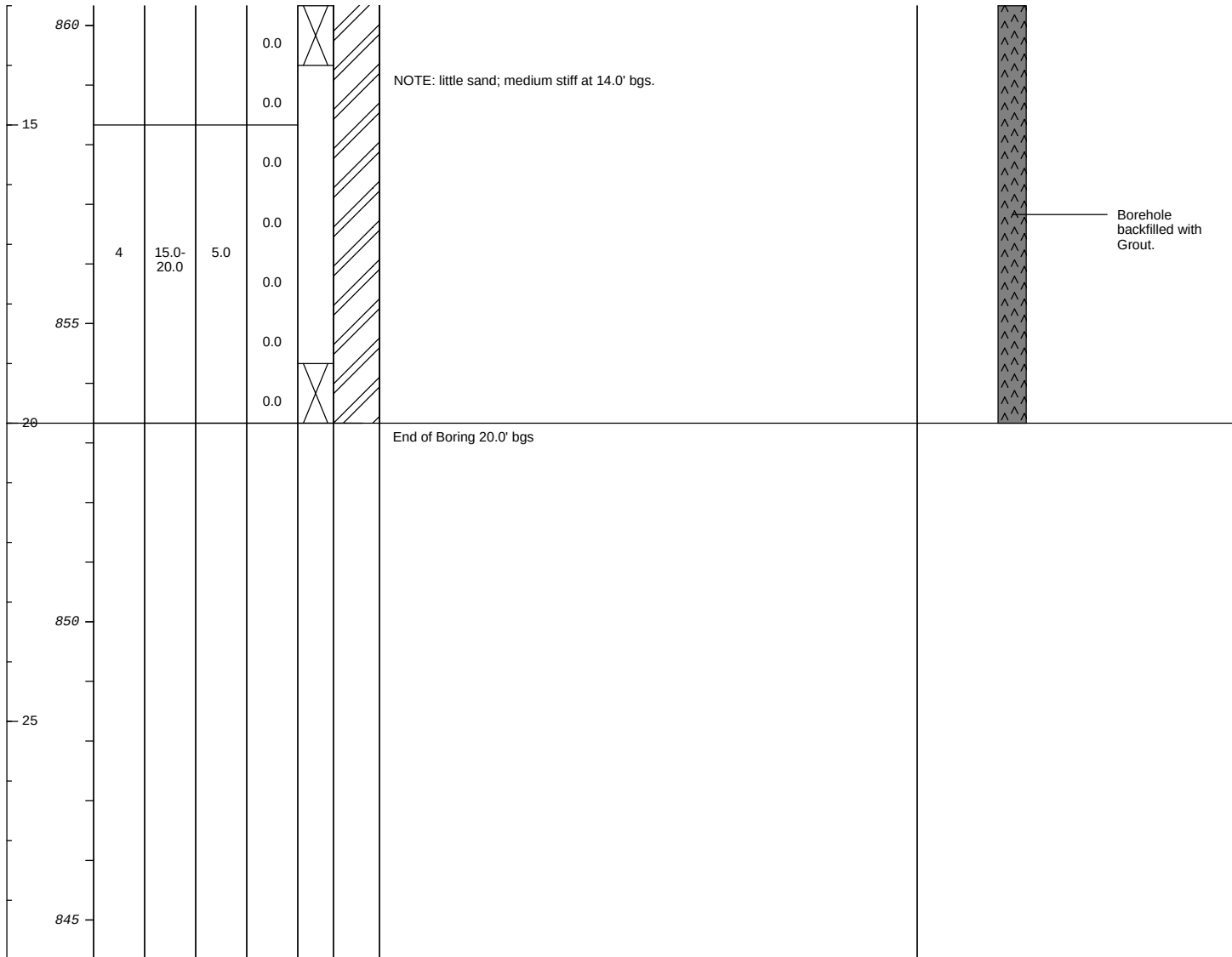
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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875									
0									
		1	0.0-5.0	5.0	0.0			(0.0-5.0) SAND, fine to medium, little granules to medium pebbles, subrounded; moist; brown (10YR 4/3). NOTE: FILL.	
					1.8				
					1.7				
870					0.5				
					0.0			NOTE: wet at 4.5' bgs.	
5					0.0			(5.0-8.0) SAND, fine; little silt; moist; brown (10YR 5/4). NOTE: slow dilatancy.	
		2	5.0-10.0	5.0	0.0				
					0.0				
					0.0				
865					0.0			(8.0-10.7) CLAY, high plasticity; little fine sand, trace granules to small pebbles, subangular; dry; stiff; brown (10YR 4/3).	
					0.0				
10					0.0			(10.7-20.0) CLAY, high plasticity; some fine sand, trace granules to medium pebbles, subangular; moist; soft; dark gray (10YR 4/1).	
		3	10.0-15.0	5.0	0.0				
					0.0				
					0.0				

	Remarks: BGS = Below ground surface Groundwater detected at 4.5' bgs No Odor or Staining detected
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Date Start/Finish: 5/30/12-5/31/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450065.85 Easting: 13065628.29 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 873.33 Descriptions By: A. Villhaner	Well/Boring ID: SB-A9-RV209 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected at 4.5' bgs No Odor or Staining detected
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Date Start/Finish: 5/31/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450070.46 Easting: 13065656.42 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 873.11 Descriptions By: A. Villhaner	Well/Boring ID: SB-A9-RV212 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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875									
0									
		1	0.0-5.0	5.0	0.0			(0.0-3.0) SAND, fine to coarse, trace small to medium pebbles, subrounded; poorly sorted; dry; brown (10YR 4/3).	
					0.0				
					0.0				
870					0.0			(3.0-10.0) CLAY, high plasticity; little fine sand, trace granules, subangular; dry; medium stiff; brown (10YR 4/3).	
					0.0				
5					0.0				
		2	5.0-10.0	4.2	0.0				
					0.0				
865					0.0				
					0.0				
10					0.0			(10.0-13.0) CLAY, high plasticity; some fine to medium sand, trace granules, subangular; moist; soft; dark gray (10YR 4/1).	
					0.0				
		3	10.0-15.0	3.7	0.0				
					0.0				
860					0.0				

	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Date Start/Finish: 5/31/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450070.46 Easting: 13065656.42 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 873.11 Descriptions By: A. Villhaner	Well/Boring ID: SB-A9-RV212 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	860	4	15.0-20.0	5.0	0.0		(13.0-14.0) CLAY, high plasticity; and SAND, fine to medium, trace granules, subangular; moist; soft; dark gray (10YR 4/1).		Borehole backfilled with Grout.
					0.0		(14.0-15.0) CLAY, high plasticity; some fine to medium sand, trace granules, subangular; moist; soft; dark gray (10YR 4/1).		
					0.0		(15.0-20.0) CLAY, high plasticity; little fine sand, trace granules to medium pebbles, angular; dry; stiff; brown (10YR 4/3).		
20	855				0.0				
					0.0				
					0.0				
25	850				0.0				
					0.0				
					0.0				
845							End of Boring 20.0' bgs		

	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A9-RZ-229

Project Name: RACER Lansing Plants

Date Drilled: 5/31/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0		(0.0' - 6.5') SAND fine- medium; well sorted; moist (10YR 4/3 Brown)(fill)	RZ-229 0.0' - 1.0'	-	0.0	
2				-	0.0	
				-	0.0	
4				-	0.0	
				-	0.0	
6			RZ-229 5.0' - 6.0'	-	0.0	
				-	0.0	
8		(6.5' - 8.0') CLAY high plasticity; some fine sand; trace small to medium pebbles; subrounded; moist; soft (10YR 3/3 Dark Brown)		-	0.0	
				-	0.0	
10		(8.0' - 30.0') CLAY high plasticity; little fine sand; trace granules to small pebbles; angular; dry; stiff (10YR 4/3 Brown)		-	0.0	
				-	0.0	
12				-	0.0	
				-	0.0	
14		Note: Color change to (10YR 4/1 dark grey @ 12')		-	0.0	
				-	0.0	
16				-	0.0	
				-	0.0	
18			RZ-229 17.0' - 18.0'	-	0.0	
				-	0.0	
20				-	0.0	
				-	0.0	
22				-	0.0	
				-	0.0	
24				-	0.0	
				-	0.0	
26				-	0.0	
				-	0.0	
28				-	0.0	
				-	0.0	
30						

Completion Notes: EOB@ 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A9-SB-227

Project Name: RACER Lansing Plants

Date Drilled: 5/31/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0		(0.0' - 3.0') SAND fine; trace granules; sub angular; well sorted; dry (10YR 4/3 Brown)	SB-227 0.0' - 1.0'	-	0.0	
2				-	0.0	
2				-	0.0	
4		(3.0' - 8.1') SAND fine; and clay; trace silt; trace granules; subangular; moist; soft (10YR 5/2 Very Dark Greyish Brown)		-	0.0	
4				-	0.0	
6				-	0.0	
6				-	0.0	
8			SB-227 7.0' - 8.0'	-	0.0	
8		(8.1' - 24.0') CLAY medium plasticity; little fine sand; trace granules to small pebble; sub angular; dry; stiff (10YR 4/3 Brown) (till)		-	0.0	
10				-	0.0	
10				-	0.0	
12		Note: Color change @ 14.0' to (10YR 4/1 dark grey)		-	0.0	
12				-	0.0	
14		Note: Small pockets of medium to coarse sand increased in till from 12 to 13' angular		-	0.0	
14				-	0.0	
16				-	0.0	
16				-	0.0	
18			SB-227 17.0' - 18.0'	-	0.0	
18				-	0.0	
20				-	0.0	
20				-	0.0	
22				-	0.0	
22				-	0.0	
24				-	0.0	
24		(24.0' - 28.0') SAND fine-coarse; subrounded; poorly sorted; moist; (10YR 4/3 Brown)		-	0.0	
26				-	0.0	
26				-	0.0	
28			SB-227 27.0' - 28.0'	-	0.0	
28		(28.0' - 30.0') CLAY high plasticity; little fine sand; trace granules; small pebbles; angular; dry (10YR 4/1 Dark Gray)(till)		-	0.0	
30				-	0.0	

Completion Notes: EOB@ 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A9-SB-232

Project Name: RACER Lansing Plants

Date Drilled: 5/31/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0		(0.0-10.9') SAND fine-medium; trace small to medium pebbles; subrounded; well sorted; moist; (10YR 4/3 Brown)(fill)	SB-232 0.0' - 1.0'	-	0.0	
2				-	0.0	
				-	0.0	
4				-	0.0	
				-	0.0	
6				-	0.0	
				-	0.0	
8				-	0.0	
				-	0.0	
10				-	0.0	
			SB-232 10.0' - 11.0'	-	0.0	
12		(10.9-30.0') CLAY high plasticity; little fine sand; trace gravel; small pebbles subangular; dry; medium-stiff; (10YR 4/3 Brown) (till)		-	0.0	
				-	0.0	
14				-	0.0	
		Note: Gradual color change to (10YR 4/1 dark grey) by 20.0'		-	0.0	
16				-	0.0	
		Note: Sand increases to (some) @18'-20'		-	0.0	
18				-	0.0	
				-	0.0	
20			SB-232 19.0' - 20.0'	-	0.0	
				-	0.0	
22				-	0.0	
				-	0.0	
24				-	0.0	
				-	0.0	
26				-	0.0	
				-	0.0	
28			SB-232 27.0' - 28.0'	-	0.0	
				-	0.0	
30				-	0.0	

Completion Notes: EOB@ 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A9-SE-229

Project Name: RACER Lansing Plants

Date Drilled: 6/1/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0		SP- (0.0 -5.0) SAND fine to medium, trace granules, angular; well sorted; brown (10YR 4/3). NOTE: FILL.	SE-229 0.0' - 1.0'	-	0.0	
2				-	0.0	
4				-	0.0	
4				-	0.0	
6		CH- (5.0 - 9.30) CLAY high plasticity; trace fine sand, trace granules, subangular; dry; stiff; brown (10YR 4/3).		-	0.0	
6				-	0.0	
8				-	0.0	
8				-	0.0	
10		CH- (9.30- 10.0) SAND fine to medium; well sorted; grayish brown (10YR 5/2).	SE-229 9.0' -10.0'	-	0.0	
10				-	0.0	
12				-	0.0	
12		CH- (10.0- 11.50) CLAY high plasticity; little fine sand, trace granules to small pebbles, subangular; dry; stiff; brown (10YR 5/3).		-	0.0	
14				-	0.0	
14				-	0.0	
16		CLS- (11.50 - 17.0) CLAY some fine sand, trace small pebbles, subangular; moist; dark gray (10YR 4/1).	SE-229 16.0' - 17.0'	-	0.0	
16				-	0.0	
18		CH- (17.0 - 30.0) CLAY high plasticity; little fine sand, trace granules to medium pebbles, subangular; dry; brown (10YR 4/3). NOTE: TILL.		-	0.0	
18				-	0.0	
20				-	0.0	
20				-	0.0	
22				-	0.0	
22		NOTE: Color change to dark gray (10YR 4/1) at 25.0' bgs.		-	0.0	
24				-	0.0	
24				-	0.0	
26				-	0.0	
26				-	0.0	
28			SE-229 27.0' - 28.0'	-	0.0	
28				-	0.0	
30				-	0.0	

Completion Notes: EOB@ 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 9.24.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450710.0909 Easting: 13065830.83 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 873.06 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A10-PJ230 Client: RACER Location: RACER Lansing Plant 6
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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875									
0									
		1	0.0-5.0	3.2	0.0			(0.0-4.5') SAND, fine, some granules to small pebbles, subangular to subrounded; trace clay; poorly sorted; moist; brown (10YR 4/3).	
870					0.0				
					0.0				
					0.0				
					0.0				
5					0.0			(4.5-5.5') CLAY, low plasticity; little fine sand, little granules to small pebbles, subangular; dry; stiff; brown (10YR 4/3).	
					0.0				
		2	5.0-10.0	5.0	0.0			(5.5-21.5') CLAY, high plasticity; trace fine sand, trace graules to medium pebbles, subangular to angular; dry; medium stiff; brown (10YR 4/3).	
					0.0			NOTE: Stiff from 7.0-13.0' bgs.	
865					0.0				
					0.0				
					0.0				
10					0.0			NOTE: Color change to gray (10YR 5/1) at 10.0' bgs.	
					0.0				
		3	10.0-15.0	4.9	0.0				
					0.0				
860					0.0				

	Remarks: bgs = below ground surface Groundwater encountered from 21.5'-24.0' bgs. No odor or staining observed.
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Date Start/Finish: 9.24.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450710.0909 Easting: 13065830.83 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 873.06 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A10-PJ230 Client: RACER Location: RACER Lansing Plant 6
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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860					0.0				
					0.0				
15					0.0				
		4	15.0-20.0	5.0	0.0				
					0.0				
855					0.0				
					0.0				
20					0.0			NOTE: Soft; moist from 20.0-21.5' bgs.	
		5	20.0-23.0	3.0	0.0			(21.5-24.0') SAND, very fine to fine, trace granules, subangular; some silt; poorly sorted; wet; gray (10YR 5/1).	
					0.0				
850					0.0				
		6	23.0-27.0	4.0	0.0			(24.0-30.0') CLAY, high plasticity; trace fine sand, trace small to medium pebbles, subangular to angular; dry; stiff; gray (10YR 5/1).	
					0.0				
25					0.0				
					0.0				
845		7	27.0-30.0	3.0	0.0				
					0.0				

	Remarks: bgs = below ground surface Groundwater encountered from 21.5'-24.0' bgs. No odor or staining observed.
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Date Start/Finish: 9.24.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450710.0909 Easting: 13065830.83 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 873.06 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A10-PJ230 Client: RACER Location: RACER Lansing Plant 6
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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30				0.0	X			End of boring at 30.0' bgs.	
35									
40									
45									

	Remarks: bgs = below ground surface Groundwater encountered from 21.5'-24.0' bgs. No odor or staining observed.
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Date Start/Finish: 5/30/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Direct Push Sampling Method: Macrocore Rig Type: Geoprobe	Northing: Easting: Casing Elevation: Borehole Depth: 15.0' bgs Surface Elevation: Descriptions By: A. Villhauer	Well/Boring ID: SB-A10-PJ232 Client: RACER Location: RACER Lansing Plant 6 2801 West Saginaw Lansing, MI 48909
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								
		1	1.0-5.0	5.0	0.0			(0.0'-3.0') CONCRETE, crushed; sand, fine to medium, brown (10YR 4/3).	
					0.0				
					0.0				
					0.0				
					0.7			(3.0'-6.0') CLAY, high plasticity; some fine sand; moist; very dark brown (10YR 2/2).	
					1.1				
5	-5				1.1				
		2	5.0-10.0	4.8	0.0			(6.0'-12.5') CLAY, high plasticity; little fine sand; trace granules, angular; dry; stiff; yellowish brown (10YR 5/4).	
					0.0				
					0.0				
					0.0				
10	-10				0.0				
		3	10.0-15.0	4.6	0.0			(12.5'-15.0') CLAY, high plasticity; some fine sand; trace granules to small pebbles, angular; moist; soft; brown (10YR 4/3).	
					0.0				
					0.0				
					0.0				
15	-15				0.0			End of boring at 15.0' bgs.	

	Remarks: bgs = below ground surface No groundwater encountered. No odor or staining observed.
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Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A10-PJ232A

Project Name: RACER Lansing Plants

Date Drilled: 6/4/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		NR- (0.0- 15.0) BLIND DRILL Just needed deep sample				
2						
4						
6						
8						
10						
12						
14						
16		CH- (15.0' - 17.20) CLAY trace silt, high plasticity; some fine sand; moist; soft; grayish brown (10YR 5/2).	PJ-232 16.0' -17.0'	-	0.0	
				-	0.0	
18		CH- (17.20') CLAY high plasticity; little fine sand, trace granules to medium pebbles, subangular; dark gray (10YR 4/1). NOTE: TILL.		-	0.0	
				-	0.0	
20				-	0.0	

Completion Notes: End of Boring at 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 9.24.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450676.2368 Easting: 13065800.44 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 873.09 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A10-PM227 Client: RACER Location: RACER Lansing Plant 6
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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875									
0									
		1	0.0-5.0	3.6	0.0			(0.0-5.5') SAND, fine, little granules to small pebble, subrounded; trace clay; poorly sorted; moist; brown (10YR 4/3).	
870					0.0				
					0.0				
					0.0				
5					0.0				
		2	5.0-10.0	3.2	0.0			(5.5-9.0') SAND, very fine to fine; well sorted; moist; brown (10YR 4/3). NOTE: Black staining from 5.5-6.5' bgs.	
865					0.0				
					0.0				
					0.0				
10					0.0			(9.0-30.0') CLAY, high plasticity; trace fine sand, trace graules to medium pebbles; dry; medium stiff; brown (10YR 4/3).	
		3	10.0-15.0	2.5	0.0			NOTE: Stiff from 12.0-30.0' bgs.	
					0.0				
860					0.0				

	Remarks: bgs = below ground surface Groundwater not encountered. No odor observed. Black staining observed from 5.5'-9.0' bgs.
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Date Start/Finish: 9.24.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450676.2368 Easting: 13065800.44 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 873.09 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A10-PM227 Client: RACER Location: RACER Lansing Plant 6
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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860					0.0				
					0.0				
15					0.0				
		4	15.0-20.0	3.9	0.0				
					0.0				
855					0.0				
					0.0				
					0.0				
					0.0				
20					0.0				
		5	20.0-24.0	4.0	0.0				
					0.0				
					0.0				
850					0.0				
					0.0				
25		6	24.0-27.0	3.0	0.0				
					0.0				
					0.0				
845		7	27.0-30.0	3.0	0.0				
					0.0				

	Remarks: bgs = below ground surface Groundwater not encountered. No odor observed. Black staining observed from 5.5'-9.0' bgs.
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Date Start/Finish: 9.24.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450676.2368 Easting: 13065800.44 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 873.09 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A10-PM227 Client: RACER Location: RACER Lansing Plant 6
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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30				0.0	X			End of boring at 30.0' bgs.	
840									
35									
835									
40									
830									
45									

	Remarks: bgs = below ground surface Groundwater not encountered. No odor observed. Black staining observed from 5.5'-9.0' bgs.
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Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A10-PM-230

Project Name: RACER Lansing Plants

Date Drilled: 6/1/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0' - 4.0') CRUSHED STONE/ CONCRETE some fine-medium sand; little small to large pebbles; subrounded; poorly sorted (10YR 5/3 Brown); (fill) Note: Saturated @1.0'	PM-230 0.0' - 1.0'	-	0.0	
2				-	0.3	
				-	0.4	
4				-	0.4	
		(4.0' - 8.0') PEBBLES small- medium; subrounded; some fine sand; trace clay; poorly sorted; (10YR 5/3 Brown)		-	0.4	
6				-	0.9	
				-	0.3	
8			PM-230 7.0' - 8.0'	-	0.1	
		(8.0' - 11.50') CLAY high plasticity; some fine sand; moist; (10YR 5/2 Greyish Brown)		-	0.0	
10				-	0.0	
				-	0.0	
12				-	0.0	
		(11.50' - 20.00) CLAY high plasticity ;little fine sand; trace granules to medium pebbles; subangular; (10YR 4/1 Dark Grey); (till)		-	0.0	
14				-	0.0	
				-	0.0	
16				-	0.0	
			PM-230 17.0' - 18.0'	-	0.0	
18				-	0.0	
				-	0.0	
20						

Completion Notes: EOB@ 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A10-PM236

Project Name: RACER Lansing Plants

Date Drilled: 6/1/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		SWG- (0.0 - 2.0) SAND fine to medium, some medium pebbles, subrounded; trace clay; poorly sorted; moist; brown (10YR 4/3). NOTE: FILL.		-	0.0	
2			PM-236 1.0' - 2.0'	-	0.3	
		CLS- (2.0 - 6.5) CLAY medium plasticity; some fine to medium sand, trace small pebbles, subrounded; dry; soft; brown (10YR 4/3).		-	0.3	
4				-	0.6	
				-	0.6	
6			PM-236 5.0' - 6.0'	-	0.6	
				-	0.0	
8				-	0.0	
		CH- (6.5 - 20.0) CLAY high plasticity; little sand, trace granules to small pebbles, angular; dry; stiff; brown (10YR 5/3). NOTE: TILL.		-	0.0	
10				-	0.0	
				-	0.0	
12				-	0.0	
				-	0.0	
14			PM-236 14.0' - 15.0'	-	0.0	
				-	0.0	
16				-	0.0	
				-	0.0	
18				-	0.0	
				-	0.0	
20						

Completion Notes: End of Boring at 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 9.24.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450647.5909 Easting: 13065830.83 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 872.99 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A10-PP230 Client: RACER Location: RACER Lansing Plant 6
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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875									
0									
		1	0.0-5.0	2.9	0.0			(0.0-4.6') CLAY, low plasticity; some fine sand, little small to medium pebbles, subangular; moist; medium stiff; brown (10YR 4/3).	
870					0.0				
					0.0				
					0.0				
					0.0				
5					2.0			(4.6-23.0') CLAY, high plasticity; trace fine sand, trace granules to small pebbles, angular; moist; medium stiff; dark gray (10YR 4/2).	
					2.0			NOTE: Strong odor observed from 4.6-7.0' bgs.	
		2	5.0-10.0	4.3	17.4				
					3.2			NOTE: Dry from 7.0' bgs downward.	
865					2.1			NOTE: Color change to brown (10YR 4/3); stiff at 7.5' bgs.	
					0.2				
10					0.0				
					0.0			NOTE: Color change to gray (10YR 5/1) at 11.0' bgs.	
		3	10.0-15.0	5.0	0.0				
860					0.0				

	Remarks: bgs = below ground surface Groundwater encountered from 23.0'-25.0' bgs. Odor observed from 4.6'-7.0' bgs. No staining observed.
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Date Start/Finish: 9.24.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450647.5909 Easting: 13065830.83 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 872.99 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A10-PP230 Client: RACER Location: RACER Lansing Plant 6
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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860					0.0				
15					0.0				
		4	15.0-19.0	4.0	0.0				
855					0.0				
					0.0				
20					0.0				
		5	19.0-23.0	4.0	0.0				
					0.0				
850					0.0				
		6	23.0-26.0	3.0	0.0			(23.0-25.0') SAND, very fine to fine; well sorted; saturated; gray (10YR 5/1).	
25					0.0				
					0.0			(25.0-30.0') CLAY, high plasticity; trace fine sand, trace small pebbles, angular; moist; medium stiff; gray (10YR 5/1).	
					0.0				
		7	26.0-30.0	4.0	0.0				
845					0.0				
					0.0				

	Remarks: bgs = below ground surface Groundwater encountered from 23.0'-25.0' bgs. Odor observed from 4.6'-7.0' bgs. No staining observed.
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Date Start/Finish: 9.24.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 450647.5909 Easting: 13065830.83 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 872.99 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A10-PP230 Client: RACER Location: RACER Lansing Plant 6
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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30				0.0	X			End of boring at 30.0' bgs.	
840									
35									
835									
40									
830									
45									

	Remarks: bgs = below ground surface Groundwater encountered from 23.0'-25.0' bgs. Odor observed from 4.6'-7.0' bgs. No staining observed.
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Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A10-PP-232

Project Name: RACER Lansing Plants

Date Drilled: 6/1/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0' - 1.0') CRUSHED CONCRETE little fine to medium sand; dry; (10YR 4/3 Brown); (fill)		-	0.0	
2		(1.0' - 5.0') SAND fine- medium with some small to medium pebbles; subrounded poorly sorte ; moist (10YR 4/3 Brown); (fill)	PP-232 1.0' - 2.0'	-	0.3	
				-	0.4	
4				-	0.4	
				-	0.4	
6		(5.0' - 6.80') CLAY high plasticity; some fine sand; trace granules; subangular; moist; (10YR 4/2 Dark Yellowish Brown)	PP-232 5.0' - 6.0'	-	0.9	
		Note: Black and Green discoloration from 5.0' to 5.6'		-	0.3	
8				-	0.1	
				-	0.0	
10		(6.80' - 20.0') CLAY high plasticity; little fine sand; trace granules; small pebbles; angular; dry; stiff; (10YR 4/3 Brown);(till)		-	0.0	
		Note: Color change @14.0 to (10YR 4/1 Dark Grey)		-	0.0	
12		Note:Decrease in stiffness @17'		-	0.0	
				-	0.0	
14				-	0.0	
				-	0.0	
16			PP-232 15.0' - 16.0'	-	0.0	
				-	0.0	
18				-	0.0	
				-	0.0	
20				-	0.0	

Completion Notes: EOB@ 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 9.19.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 452911.4758 Easting: 13063773.75 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 861.48 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A11-GX24 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	0								
		1	0.0-5.0	4.0	0.0			(0.0-1.0') CONCRETE.	
					0.0			(1.0-4.5') CLAY, low plasticity; some fine sand, trace small pebbles, subrounded; dry; stiff; brown (10YR 4/3).	
					0.0				
					0.0				
					0.0				
5	-5	2	5.0-10.0	4.2	0.0			(4.5-9.0') SAND, fine, trace granules to small pebbles, subangular; well sorted; moist; dark yellowish brown (10YR 4/6).	
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
10	-10	3	10.0-14.0	4.0	0.0			(9.0-14.0') CLAY, medium plasticity; little fine sand, trace granules, subangular; dry; stiff; brown (10YR 4/3).	
					0.0				
					0.0				
					0.0				

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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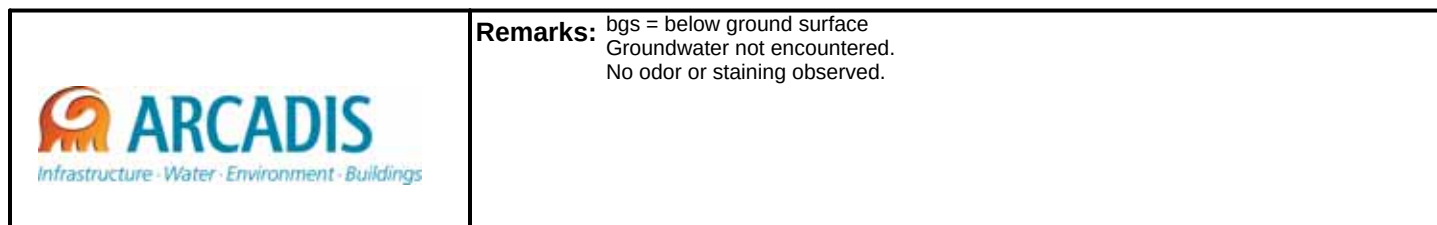
Date Start/Finish: 9.19.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 452911.4758 Easting: 13063773.75 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 861.48 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A11-GX24 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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					0.0				
15	-15	4	14.0-18.0	4.0	0.0			(14.0-27.5') CLAY, high plasticity; trace fine sand, trace granules to small pebbles, angular to subangular; dry; stiff; gray (10YR 5/1). NOTE: Stiffness gradually transitions to soft by 25.0' bgs.	
					0.0				
					0.0				
					0.0				
					0.0				
20	-20	5	18.0-22.0	4.0	0.0				
					0.0				
					0.0				
					0.0				
					0.0				
25	-25	6	22.0-26.0	3.2	0.0				
					0.0				
					0.0				
					0.0				
					0.0				
		7	26.0-30.0	2.0	0.0			(27.5-30.0') SAND, very fine to fine; well sorted; moist; brown (10YR 5/3).	
					0.0				
					0.0				

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A11-HA24

Project Name: RACER Lansing Plants

Date Drilled: 9/10/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0		(0.0 - 2.3) CONCRETE		-	NM	
2				-	NM	
2				-	0.0	
4		CLS- (2.3 - 4.5) CLAY, medium plasticity; some fine sand, trace granules to small pebbles, subangular; dry; medium stiff; brown (10YR 4/3 brown)	HA-24 3.0' - 4.0'	-	0.0	
4				-	0.0	
6				-	0.0	
6		CH- (4.5 - 12.0) CLAY, high plasticity; trace fine sand, trace granules to small pebbles, subangular; dry; stiff ; brown (10YR 4/3 brown)		-	0.0	
8				-	0.0	
8			HA-24 8.0' - 9.0'	-	0.0	
10				-	0.0	
10				-	0.0	
12				-	0.0	
12		CH- (12.0 - 14.0) CLAY, low plasticity; some fine sand trace granules to medium pebbles subangular; dry; medium stiff; brown (10YR4/3)	HA-24 13.0' - 14.0'	-	0.0	
14				-	0.0	
16		CH- (14.0 - 22.0) CLAY, high plasticity; trace fine sand, trace granules to medium pebbles; subangular; dry; stiff; gray (10YR5/1)		-	0.0	
18				-	0.0	
18			HA-24 19.0' - 20.0'	-	0.0	
20				-	0.0	
20				-	0.0	
22				-	0.0	
22		CH- (22.0 - 23.5) CLAY, high, plasticity; some fine sand, trace coarse sand, subangular; moist; soft; gray (10YR 5/1)		-	0.0	
24				-	0.0	
24			HA-24 25.0' - 26.0'	-	0.0	
26		CH- (23.5 - 28.5) CLAY, high plasticity; trace fine sand, trace granules to small pebbles, angular; dry; stiff; gray (10YR 5/1)		-	0.0	
28				-	0.0	
28				-	0.0	
30		SP- (28.5 - 32.0) SAND, very fine to fine; trace coarse sand, subangular; well sorted; dry; stiff; brown (10YR 5/3)	HA-24 31.0' - 32.0'	-	0.0	
32				-	0.0	
32		NOTE:fining upwards		-	0.0	
34						

Completion Notes: End of Boring at 32.0' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A11-HD20

Project Name: RACER Lansing Plants

Date Drilled: 9/7/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		- (0.0 - 0.9) CONCRETE		-	-	
		CLS- (0.9 - 6.5) CLAY' medium plasticity; some fine sand, trace small pebbles; subangular; dry; medium; stiff; dark brown (10YR 3/3) NOTE: sweet or pungent odor		-	0.0	
2				-	0.1	
			HD-20	-	0.2	
4			3.0' - 4.0'	-	0.1	
				-	0.1	
				-	0.1	
6				-	0.1	
		CONCRETE REFUSAL				

Completion Notes: End of Boring at 6.5' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A11-HE18

Project Name: RACER Lansing Plants

Date Drilled: 9/10/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0 - 0.20) VEGATATION/ CRUSHED STONE		-	0.0	
2		SP- (0.2 - 0.5) SAND, fine to medium; well sorted; moist; brown (10 YR4/3)		-	0.0	
		CLS- (0.5 - 18.0) CLAY, medium plasticity; some fine sand, trace granules to small pebbles, subrounded to subangular; moist; medium stiff; brown (10 YR 4/3)		-	0.0	
4			HE-18 3.0' - 4.0'	-	0.0	
		NOTE sand increases to some at 12' bgs stiffness decreases to soft		-	0.0	
6				-	0.0	
		NOTE: color transition to dark gray (10YR 4/1) from 17.0' to 18.0' bgs		-	0.0	
8				-	0.0	
		NOTE: refusal at 18.0' bgs		-	0.0	
10				-	0.0	
				-	0.0	
12				-	0.0	
				-	0.0	
14				-	0.0	
				-	0.0	
16				-	0.0	
				-	0.0	
18			HE-18 17.0' - 18.0'	-	0.0	

Completion Notes: End of Boring at 18.0' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A11-HE20

Project Name: RACER Lansing Plants

Date Drilled: 9/7/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0 -2.0) CONCRETE		-	-	
2				-	-	
		SP- (2.0 - 18.0) SAND, fine to medium; well sorted; moist; loose; dark yellowish brown (10YR 4/4)	HE-20 2.0' - 3.0'	-	0.0	
4				-	0.0	
				-	0.0	
6				-	-	
				-	-	
8				-	-	
				-	-	
10				-	0.0	
				-	-	
12				-	-	
				-	-	
14				-	0.0	
				-	0.0	
16				-	-	
			HE-20 17.0' - 18.0'	-	0.0	
18		CONCRETE REFUSAL				
20						

Completion Notes: End of Boring at 18' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 5/21/12-5/22/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 452840.13 Easting: 13063761.08 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 861.42 Descriptions By: Austin Westhuis	Well/Boring ID: SB-A11-HE23 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860		1	0.0-5.0	5.0	NA			(0.0-1.45) CONCRETE	
					0.0	X		(1.45-16.7) SAND, fine to medium, trace granules, subangular; well sorted; dry; brown (10YR 4/3). NOTE: FILL.	
					0.0				
					0.0				
					0.0				
5					0.0				
855		2	5.0-9.0	3.7					
					0.0				
					0.0				
					0.0				
					0.0				
					0.0			NOTE: Trace small pebbles, subrounded; trace clay; from 9.0'-16.7' bgs.	
10					0.0			NOTE: Moistening downwards; moist at 10.0' bgs	
850		3	9.0-13.0	3.0					
					0.0				
					0.0				
					0.0	X			

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 17.5'-18.5' and 19.5'-21.8' bgs No Odor or Staining detected
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Date Start/Finish: 5/21/12-5/22/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 452840.13 Easting: 13063761.08 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 861.42 Descriptions By: Austin Westhuis	Well/Boring ID: SB-A11-HE23 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15		4	13.0-17.0	2.6	0.0				
845					0.0				
		5	17.0-21.0	4.0	0.0			(16.7-17.5) CLAY, high plasticity; trace fine to coarse sand; stiff; moist; dark gray (10YR 4/1).	
					0.0			(17.5-18.5) SAND, fine to coarse; poorly sorted; wet; brown (10YR 4/3). NOTE: wood at base of sand.	
					0.0			(18.5-19.5) CLAY, high plasticity; some fine sand, trace granules to medium pebbles, subangular; moist; medium stiff; dark gray (10YR 4/1).	
20					0.0			(19.5-20.7) CLAY trace silt; and SAND, fine; slow dilatancy; wet; medium stiff; dark gray (10YR 4/1).	
					0.0			(20.7-21.0) SAND, fine; and SILT; well sorted; moist to wet; dark gray (10YR 4/1).	
840		6	21.0-25.0	4.0	0.0			(21.0-21.8) SAND, fine to coarse, trace granules to large pebbles, subangular; poorly sorted; wet; brown (10YR 5/3).	
					0.0			(21.8-25.0) CLAY, high plasticity; little fine sand, trace granules to small pebbles, angular; stiff; gray (10YR 5/1). NOTE: TILL. NOTE: Medium stiff from 24.0'-25.0'.	
25					0.0			End of boring at 25.0' bgs	
835									

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 17.5'-18.5' and 19.5'-21.8' bgs No Odor or Staining detected
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Date Start/Finish: 5/21/12 Drilling Company: Stock Driller's Name: Jake B Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452839.69 Easting: 13063791.08 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.34 Descriptions By: A. Villhaner (non-ARCADIS employee)	Well/Boring ID: SB-A11-HE26 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0								(0.0-0.9) CONCRETE	
860		1	0.0-5.0	5.0	NA			(0.90-2.0) CLAY and SAND, fine to medium, trace granules to medium pebbles, subrounded; poorly sorted; moist; soft; dark grayish brown (10YR 4/2).	
					0.0			(2.0-5.0) CLAY, low plasticity; some fine to coarse sand, trace granules to medium pebbles, subangular; dry; medium stiff; dark yellowish brown (10YR 4/4).	
					0.0			NOTE: color changes to dark grayish brown (10YR 4/2) at 3.0' bgs.	
5					0.0			(5.0-9.6) CLAY, high plasticity; trace medium to coarse sand, trace granules to medium pebbles, subangular; stiff; moist; yellowish brown (10YR 5/4).	
855		2	5.0-9.0	4.0	0.0			NOTE: Till.	
					0.0			NOTE: fine sand seam 0.1'; dry; at 8.5' bgs.	
10					0.0			(9.6-10.5) SAND, fine to very fine, trace granules, subrounded; little silt; poorly sorted; moist to wet; slow dilatancy.	
850		3	9.0-13.0	4.0	0.0			(10.5-15.5) CLAY, medium plasticity; trace fine to coarse sand, trace granules to small pebbles, poorly sorted; moist; stiff; brown (10YR 4/3).	
					0.0			NOTE: very stiff from 14.5'-15.5' bgs.	
15		4	13.0-17.0	4.0	0.0			(15.5-17.0) CLAY, high plasticity; trace coarse sand to small pebbles, trace large pebbles, subangular; moist; medium stiff; dark gray (10YR 4/1).	
845					0.0				
								End of boring at 17.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 9.6'-10.5' bgs No Odor or Staining detected
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Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A11-HE28

Project Name: RACER Lansing Plants

Date Drilled: 9/7/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0		(0.0 - 0.9) CONCRETE		-	0.0	
2		CL- (0.9 - 13.0) CLAY, medium plasticity; little fine sand, trace granules, subangular; dry; medium stiff; brown (10YR 4/3)	HE-28 1.0' - 2.0'	-	0.0	
4				-	0.0	
6			HE-28 6.0' - 7.0'	-	0.0	
8				-	0.0	
10				-	0.0	
12		NOTE:some sand from 11.0' to 13.0'	HE-28 12.0' - 13.0'	-	0.0	
14		CH- (13.0- 20.5) CLAY, high plasticity; trace fine sand, trace granules to small pebbles; angular to subangular; dry; stiff; brown (10YR 4/3)		-	0.0	
16		NOTE: TILL NOTE: transition to gray (10YR 5/1) at 16.0' bgs		-	0.0	
18				-	0.0	
20				-	0.0	
22		SM- (20.5 - 21.5) SAND, very fine and silt, slow dilatancy; moist to wet; yellowish brown (10YR 4/4)	HE-28 20.5' - 21.5'	-	0.0	
24		CH- (21.5 - 30.0) CLAY, high plasticity; trace fine sand; trace granules to small pebbles; angular; dry; stiff; gray (10YR 5/1)	HE-28 24.0' - 25.0'	-	0.0	
26				-	0.0	
28		NOTE: TILL		-	0.0	
30			HE-28 29.0' - 30.0'	-	0.0	
32						

Completion Notes: End of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A11-HF18

Project Name: RACER Lansing Plants

Date Drilled: 9/10/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0' - 1.5') CONCRETE		-	NM	
2		CL- (1.50 - 4.3) CLAY, medium plasticity; little fine sand, trace small pebbles, subangular; dry; stiff; brown (10 YR 4/3)	HF-18 2.0' - 3.0'	-	0.0	
				-	0.0	
4				-	0.0	
			CH- (4.3 - 13.5) CLAY, high plasticity ; trace fine sand, trace granules, sub angular;dry; stiff; brown (10YR 4/3)	HF-18 8.0' - 9.0'	-	
6		-			0.0	
		-			0.0	
8		-			0.0	
		-			0.0	
10		-			0.0	
12		-		0.0		
		SP- (13.50 - 14.00) SAND, fine; well sorted; moist; brown (10YR 5/3) CH- (14.00 - 29.0) CLAY, high plasticity; trace fine sand, trace granules to medium pebbles, angular; dry; stiff; brown (10YR 5/1) NOTE: seam of very fine sand and silt from 20.0' to 20.5'	HF-18 13.0' - 14.0'	-	0.0	
14				-	0.0	
				-	0.0	
16				-	0.0	
				-	0.0	
18				-	0.0	
20			-	0.0		
			HF-18 20.0' - 21.0'	-	0.0	
22				-	0.0	
				-	0.0	
24				-	0.0	
				-	0.0	
26		-		0.0		
		HF-18 25.0' - 26.0'	-	0.0		
28			-	0.0		
			-	0.0		
30			-	0.0		
		ML- (29.0 - 30.0) SILT AND VERY FINE SAND, slow dilatancy; dry; dense; brown (10YR 5/3)	HF-18 29.0' - 30.0'	-	0.0	
32				-	0.0	

Completion Notes: End Of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 5/21/12 Drilling Company: Stock Driller's Name: Jake B Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452824.07 Easting: 1306775.72 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.38 Descriptions By: S.Stelter (non ARCADIS employee)	Well/Boring ID: SB-A11-HF24 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860		1	0.0-5.0	5.0	0.0	X		(0.0-1.5) CONCRETE	
					0.0			(1.5-2.5) CLAY, some sand, trace granules, subrounded; poorly sorted; moist; soft; brown (10YR 4/4).	
					0.0			(2.5-6.0) CLAY, high plasticity; some fine to medium sand, trace granules; moist; soft; yellowish brown; (10YR 5/4).	
5					0.0				
855		2	5.0-9.0	4.0	0.0			(6.0-13.0) CLAY, medium plasticity; trace fine to coarse sand, trace small to large pebbles, subrounded to angular; moist; very stiff; yellowish brown (10YR 5/4). NOTE: stiffness decreases; granules increases; from 7.0'-8.0' bgs.	
					0.0				
10					0.0				
850		3	9.0-13.0	4.0	0.0				
					0.0				
					0.0	X			
					0.0			(13.0-14.0) SAND, very fine to fine, trace small to medium pebbles, subround; and CLAY; poorly sorted; moist; yellowish brown (10YR 5/4).	
15					0.0			(14.0-17.0) CLAY, high plasticity; trace granules to medium pebbles, subangular; stiff; moist; dark gray (10YR 4/1). NOTE: TILL.	
845		4	13.0-17.0	4.0	0.0				
					0.0				
					0.0			End of boring at 17.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A11-HH24

Project Name: RACER Lansing Plants

Date Drilled: 9/7/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0		(0.0 - 0.8) CONCRETE		-	0.0	
2		SP- (0.8 - 2.0) SAND, fine to medium; well sorted; saterated; brown; (10YR 4/3)	HH-24 0.0' - 4.0'	-	0.0	
4		CLS- (2.0 - 7.0) CLAY, medium plasticity; some fine sand, moist medium stiff ;brown (10YR 4/3)		-	0.0	
6				-	0.0	
6			HH-24 6.0' - 7.0'	-	0.0	
8		CH- (7.0 - 30.0) CLAY, high placticity; trace fine sand; trace granules to small pebbles; subangular to angular; dry stiff; brown; (10YR 4/3 brown)		-	0.0	
10				-	0.0	
12		NOTE: TILL NOTE: evidence of fracture NOTE: color change to gray (10YR 5/1) at 11.0' bgs		-	0.0	
14			HH-24 12.0' - 13.0'	-	0.0	
16				-	0.0	
18				-	0.0	
20			HH-24 19.0' - 20.0'	-	0.0	
22				-	0.0	
24			HH-24 22.0' - 23.0'	-	0.0	
26				-	0.0	
28			HH-24 27.0' - 28.0'	-	0.0	
30				-	0.0	
32						

Completion Notes: End of Boring at 30.0' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A11-HJ7

Project Name: RACER Lansing Plants

Date Drilled: 9/7/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0 - 0.9) CONCRETE		-	0.0	
2		SP- (0.9 - 2.0) SAND, fine; well sorted; moist; brown (10YR 4/3)	HJ-7 1.0' - 2.0'	-	0.0	
		CL- (2.0- 4.0) CLAY, low plasticity; some fine sand, moist; medium stiff; brown (10YR 4/3)		-	0.0	
4		CH- (4.0 - 11.5) CLAY, high plasticity trace fine sand, trace granules, sub angular; moist; medium stiff, brown (10YR 4/3) NOTE: seam of moist fine sand from 6.4' - 6.5' bgs		-	0.0	
				-	0.0	
6			HJ-7 6.0' - 7.0'	-	0.0	
				-	0.0	
8				-	0.0	
10		CH- (11.5 - 20.0) CLAY, high plasticity; trace fine sand; trace granules to small pebbles; angular; dry; stiff; (10YR 5/1 gray) NOTE: TILL		-	0.0	
				-	0.0	
12				-	0.0	
				-	0.0	
14				-	0.0	
				-	0.0	
16				-	0.0	
				-	0.0	
18			HJ-7 17.0' - 18.0'	-	0.0	
				-	0.0	
20				-	0.0	
22						

Completion Notes: End of Boring at 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 5/23/12 Drilling Company: Stock Driller's Name: Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452762.24 Easting: 13063605.19 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.44 Descriptions By: A. Villhaner	Well/Boring ID: SB-A11-HM7 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0								(0.0-1.0) CONCRETE	
860		1	0.0-5.0	4.0	NA			(1.0-2.0) Sand, medium to coarse, trace granules to medium pebbles, subrounded; poorly sorted; moist; brown (10YR 4/3). NOTE: odor.	
					4.8				
					117			(2.0-12.5) CLAY, high plasticity; trace fine sand, trace granules to small pebbles, subangular; dry; stiff; brown (10YR 4/3). NOTE: strong odor at 2.3' bgs.	
					21.6				
5					6.9				
855		2	5.0-9.0	4.0	1.7				
					1.2				
					1.2				
					0.1				
10					NA				
850		3	9.0-13.0	4.0	NA				
					NA				
					NA				
					NA			(12.5-17.0) CLAY, high plasticity; trace fine to medium sand, trace granules to large pebbles, angular; dry; stiff; dark gray (10YR 4/1).	
15					NA				
845		4	13.0-17.0	4.0	NA				
					NA				
					NA				
								End of Boring 17.0' bgs	

	Remarks: BGS = Below ground surface No Groundwater detected Odor detected between 1.0'-2.0' and at 2.3' bgs. No Staining detected
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Date Start/Finish: 5/22/12 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 452749.31 Easting: 13063591.07 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.43 Descriptions By: A. Villhaner	Well/Boring ID: SB-A11-HN6 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0								(0.0-1.0) CONCRETE	
860		1	0.0-5.0	4.0	NA	X		(1.0-2.0) SAND, medium sand to small pebbles, subrounded; poorly sorted; moist; brown (10YR 4/3).	
					0.0			(2.0-7.9) CLAY, low plasticity; little fine sand, trace small to medium pebbles, subrounded; dry; stiff; brown (10R 4/3). NOTE: increase plasticity at 5.0' bgs.	
5					0.0				
855		2	5.0-9.0	4.0	0.0			(7.9-8.1) SAND, fine to coarse, subangular; poorly sorted; moist; brown (10YR 5/3).	
					0.0			(8.1-13.2) CLAY, medium plasticity; trace fine sand to granules, subangular; moist; dark grayish brown (10YR 4/2).	
10					0.0				
850		3	9.0-13.0	4.0	0.0			(13.2-17.0) CLAY, high plasticity; trace fine sand, trace granules to small pebbles, angular; moist; medium stiff; dark gray (10YR 4/1). NOTE: stiff at 14.0' bgs.	
					0.0				
15		4	13.0-17.0	4.0	0.0				
845					0.0				
								End of boring at 17.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Date Start/Finish: 5/22/12 Drilling Company: Stock Driller's Name: Jake B Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452748.96 Easting: 13063621.07 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.27 Descriptions By: A. Villhaner	Well/Boring ID: SB-A11-HN9 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0								(0.0-1.0) CONCRETE	
860		1	0.0-5.0	4.0	NA	X		(1.0-13.0) CLAY, high plasticity little fine to coarse sand, trace granules to small pebbles, subrounded; dry; medium to stiff; brown (10YR 4/3). NOTE: medium to coarse sand seams, subround; poorly sorted; moist; brown (10YR 4/3) at 5.5' bgs. NOTE: large rock; (poor recovery) at 10.0' bgs. NOTE: color change to dark gray brown (10YR 4/2) at 11.0' bgs.	
855		2	5.0-9.0	3.0	0.0				
850		3	9.0-13.0	1.9	0.0	X			
845		4	13.0-17.0	4.0	NA			(13.0-17.0) CLAY, high plasticity; trace fine sand, trace granules to small pebbles, subangular; dry; stiff; dark gray (10YR 4/1).	
					NA				
					NA				
					NA				
								End of boring at 17.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Date Start/Finish: 5/22/12 Drilling Company: Stock Driller's Name: Jake B Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452732.24 Easting: 13063605.01 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.45 Descriptions By: A. Villhaner	Well/Boring ID: SB-A11-HP7 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860		1	0.0-5.0	4.0	NA			(0.0-1.0) CONCRETE (1.0-1.5) SAND, medium to coarse, trace granules to small pebbles, subrounded; poorly sorted; moist; brown (10YR 4/3). (1.5-11.5) CLAY, high plasticity; some fine sand, trace granules to small pebbles; moist; medium stiff; brown (10YR 4/3).	
5		2	5.0-9.0	4.0	0.0				
855					0.0				
					0.0				
					0.0				
					0.0				
10		3	9.0-13.0	4.0	0.0			NOTE: Color change to dark grayish brown (10YR 4/2) at 9.5' bgs.	
850					0.0				
					0.0			(11.5-17.0) CLAY, high plasticity; trace fine sand, trace granules to large pebbles, subangular; dry; stiff; dark gray (10YR 4/1). NOTE: TILL.	
					0.0				
15		4	13.0-17.0	4.0	0.0				
845					0.0				
					0.0			End of boring at 17.0' bgs	

	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Date Start/Finish: 9.20.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 454057.3153 Easting: 13064294.64 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 858.07 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A12-CM76 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	0								
		1	0.0-5.0	5.0	NA			(0.0-0.3') TOPSOIL.	
					0.0			(0.3-7.0') CLAY, low plasticity; little fine sand, trace granules to medium pebbles, subrounded to subangular; dry; medium stiff; brown (10YR 4/3).	
					0.0				
					0.0				
					0.0				
5	-5				0.0				
		2	5.0-10.0	3.0				(7.0-20.0') CLAY, high plasticity; trace fine sand, trace granules to small pebbles, angular; dry; stiff; brown (10YR 4/3).	
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
10	-10				0.0				
		3	10.0-15.0	5.0					
					0.0				
					0.0				
					0.0				

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 9.20.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 454057.3153 Easting: 13064294.64 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 858.07 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A12-CM76 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	-15	4	15.0-20.0	5.0	0.0			NOTE: Color change to gray (10YR 5/1) at 14.0' bgs.	
20	-20				0.0			End of boring at 20.0' bgs.	
25	-25								

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 454913.88 Easting: 13064478.56 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 846.26 Descriptions By: A. Villhauer	Well/Boring ID: SB-A13-E94 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0								(0.0-0.5) TOPSOIL.	
845		1	1.0-5.0	5.0	0.0			(0.5-5.0) SAND, fine, trace small pebbles, subround; well sorted; dry; brown (10YR 5/3). NOTE: FILL	
					0.0				
					0.0				
					0.0				
					0.0			NOTE: no pebbles at 4.0' bgs.	
5					0.0			(5.0-7.2) CLAY, low plasticity; some fine sand, trace granule, subangular; dry; stiff; brown (10YR 4/3).	
840					0.0				
					0.0				
		2	5.0-10.0	4.1	0.0			(7.2-9.5) SAND; and SILT; moist; yellowish brown (10YR 5/4).	
					0.0				
10					0.0			(9.5-11.5) SAND, fine to medium; well sorted; moist; brown (10YR 5/3).	
835					0.0				
					0.0			(11.5-15.0) CLAY, high plasticity; little fine sand, trace granule to small pebble, angular; dry; stiff; dark gray (10YR 4/1).	
		3	10.0-15.0	4.9	0.0			NOTE: Glacial TILL	
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected
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Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 454913.88 Easting: 13064478.56 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 846.26 Descriptions By: A. Villhauer	Well/Boring ID: SB-A13-E94 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15					0.0				
					0.0			(15.0-25.0) CLAY, medium plasticity; some fine sand, trace coarse sand to granule, angular; dry; stiff; brown (10YR 4/3).	
	830				0.0			NOTE: Glacial TILL	
		4	15.0-20.0	4.3	0.0				
					0.0				
					0.0				
					0.0				
20					0.0				
	825				0.0			NOTE: dark gray (10YR 4/1) at 21.0' bgs.	
					0.0				
		5	20.0-25.0	5.0	0.0				
					0.0				
					0.0				
25					0.0			End of boring at 25.0' bgs.	
	820								
30									

	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected
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Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 454899.06 Easting: 13064467.89 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 846.67 Descriptions By: A. Villhauer	Well/Boring ID: SB-A13-G93 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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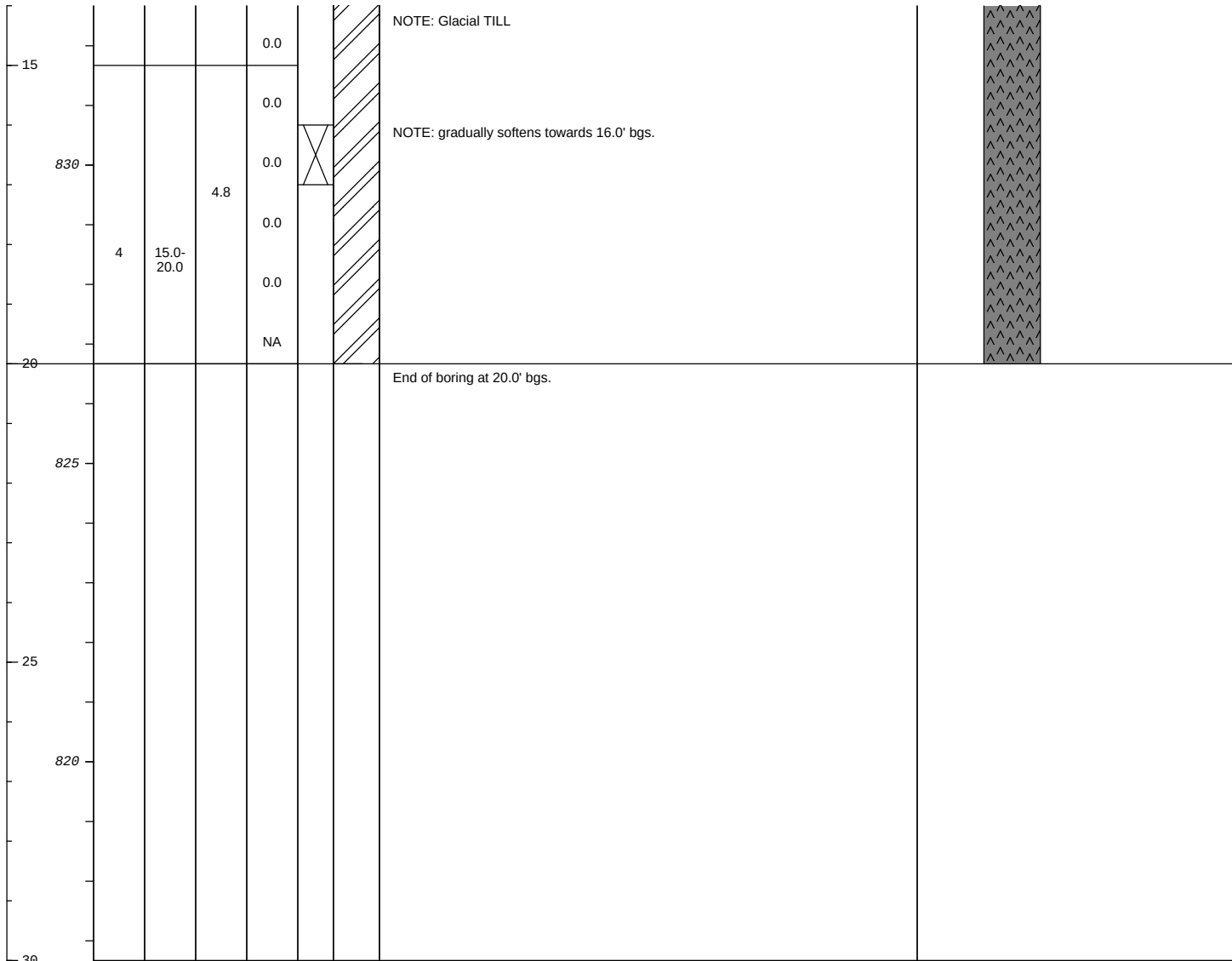
0								(0.0-0.5) TOPSOIL.	
845		1	1.0-5.0	5.0	0.0			(0.5-5.0) SAND, fine, trace small pebbles, subround; well sorted; dry; brown (10YR 5/3). NOTE: FILL	
					0.0			NOTE: fewer pebbles toward the bottom.	
5		2	5.0-10.0	4.5	0.0			(5.0-9.5) CLAY, medium plasticity; little fine sand, trace granule, subangular; dry; stiff; brown (10YR 4/3).	
10					0.0			(9.5-12.5) SAND, fine to medium; well sorted; moist; brown (10YR 5/3).	
835		3	10.0-15.0	4.6	0.0			(12.5-20.0) CLAY, high plasticity; little fine sand, trace granule to medium pebble, angular; dry; stiff; dark gray (10YR 4/1).	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected
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Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 454899.06 Easting: 13064467.89 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 846.67 Descriptions By: A. Villhauer	Well/Boring ID: SB-A13-G93 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected
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Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 454898.79 Easting: 13064491.02 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 847.65 Descriptions By: A. Villhauer	Well/Boring ID: SB-A13-G96 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0								(0.0-0.5) TOPSOIL	
				0.0				(0.5-5.0) SAND, fine, trace small pebble, subround; well sorted; dry; brown (10YR 4/3). NOTE: FILL	
				0.0					
845		1	1.0-5.0	5.0					
				0.0					
				0.0					
5				0.0				(5.0-10.5) CLAY, low plasticity; some fine sand; dry; stiff; brown (10YR 4/3).	
				0.0					
				0.0					
840		2	5.0-10.0	4.0					
				0.0					
				0.0					
10				0.0				(10.5-15.0) CLAY, high plasticity; little fine sand, trace granule to small pebble, subangular; moist; medium stiff; gray (10YR 4/1). NOTE: Glacial TILL	
				0.0					
				0.0					
835		3	10.0-15.0	4.2					
				0.0					

Borehole backfilled with Grout.

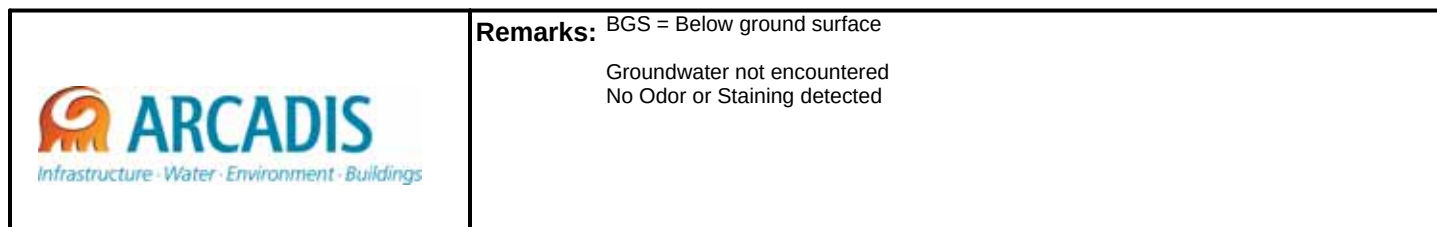
	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected
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Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 454898.79 Easting: 13064491.02 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 847.65 Descriptions By: A. Villhauer	Well/Boring ID: SB-A13-G96 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15					0.0				
					0.0			(15.0-15.9) SAND, fine to coarse, subangular; trace clay; poorly sorted; moist; brown (10YR 4/3).	
					0.0			(15.9-20.0) CLAY, medium plasticity; some fine sand, trace coarse sand to granule, angular; dry; stiff; brown (10YR 4/3).	
830		4	15.0-20.0	4.2	0.0			NOTE: Glacial TILL	
					0.0				
					0.0				
20					0.0			End of Boring at 20.0' bgs.	
825									
25									
820									
30									

	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected
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[illegible]

Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 454886.73 Easting: 13064477.89 Casing Elevation: NA Borehole Depth: 19.0' bgs Surface Elevation: 847.32 Descriptions By: A. Villhauer	Well/Boring ID: SB-A13-H94 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15					0.0			(13.8-15.0) SAND, fine; well sorted; moist; yellowish brown (10YR 5/4).	
					0.0			(15.0-18.2) CLAY, high plasticity; little fine sand, trace granule to small pebble, angular; dry; stiff; dark gray (10YR 4/1).	
					0.0			NOTE: Glacial TILL	
830		4	15.0-19.0	4.0	0.0				
					0.0			(18.2-19.0) GRAVEL, small pebbles, some fine to medium sand, subround; poorly sorted; moist; brown (10YR 4/3).	
					0.0				
								End of boring at 19.0' bgs.	
20									
825									
25									
820									
30									

	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected
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Date Start/Finish: 5/18/12 Drilling Company: Stock Driller's Name: Jake B Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 454027.58 Easting: 13064782.54 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 863.42 Descriptions By: Colleen Barton	Well/Boring ID: SB-A14-CP125 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
		1	0.0-5.0	5.0	NA			(0.0-1.1) CONCRETE	
					0.0	X		(1.1-5.0) SAND, fine to medium, little coarse sand, trace granules to medium pebbles, subrounded; well sorted; dry; brown.	
860					0.1				
					0.0				
5					0.0				
		2	5.0-9.0	4.0	0.0			(5.0-9.0) SAND, medium to very coarse, some small to medium pebbles, subangular to subround; poorly sorted; wet to moist; brown (10YR 4/3).	
					0.0				
855					0.0				
					0.0				
					0.0				
10		3	9.0-13.0	3.9	0.0			(9.0-14.5) CLAY, medium plasticity; little fine to medium sand, trace granules to small pebbles, subrounded; dry; very stiff; brown (10YR 4/3).	
					0.0				
					0.0				
850					0.0				
		4	13.0-17.0	4.0	NA			(14.5-17.0) CLAY, high plasticity; trace granules to small granules, subangular; dry; stiff; dark gray.	
15					NA				
					NA				
					NA				
					NA				
								End of boring at 17.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 5.0'-9.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/18/12 Drilling Company: Stock Driller's Name: Jake B Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453994.01 Easting: 13064694.92 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 863.47 Descriptions By: Colleen Barton	Well/Boring ID: SB-A14-CS116 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
		1	0.0-5.0	5.0	NA			(0.0-0.85) CONCRETE	
					0.2			(0.85-2.0) CLAY, no plasticity; and SAND, fine to medium, trace small to medium pebbles, subrounded; dry; brown.	
					0.0			(2.0-14.2) CLAY, medium plasticity; little fine to medium sand; dry; stiff; yellowish brown (10YR 5/4).	
860					0.1				
5					0.0			NOTE: trace small to large pebbles, subrounded; after 5.0' bgs.	
		2	5.0-9.0	4.0	0.0				
					0.0				
855					0.0				
					0.0			NOTE: fine to medium sand seam; wet; at 9.5' bgs.	
10		3	9.0-13.0	3.9	0.0			NOTE: medium to very coarse sand seams; wet; at 11.7' bgs.	
					0.0			NOTE: medium to very coarse sand seams; wet; at 12.3' bgs.	
850					0.0				
		4	13.0-17.0	3.45	0.0			(14.2-17.0) CLAY, high plasticity; trace very coarse sand to large pebbles, subrounded to subangular; dry; very stiff; dark gray.	
15					0.0				
					0.0				
								End of boring at 17.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected at 9.5', 11.7' and 12.3' bgs No Odor or Staining detected
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Date Start/Finish: 5/18/12 Drilling Company: Stock Driller's Name: Jake B Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453990.12 Easting: 13064842.34 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 863.33 Descriptions By: Colleen Barton	Well/Boring ID: SB-A14-CT131 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
		1	0.0-5.0	5.0	NA			(0.0-2.5) CONCRETE	
					NA				
					0.0			(2.5-3.0) SAND, fine to medium, trace small pebbles, subrounded; little clay; poorly sorted; moist; brown (10YR 5/3).	
860					0.0			(3.0-13.0) CLAY, high plasticity; little medium sand; moist; soft; yellowish brown (10YR 5/6).	
					0.0				
5					0.0			NOTE: trace coarse sand to small pebbles, subrounded; change to medium stiff; at 5.0' bgs.	
					0.0				
		2	5.0-9.0	3.7	0.0				
					0.0				
855					0.0			NOTE: low plasticity from 8.0'-9.0' bgs.	
					0.0				
10					0.0				
					0.0				
		3	9.0-13.0	4.0	0.0				
					0.0				
					0.0				
850					0.0			(13.0-17.0) CLAY, high plasticity; trace granules to small pebbles, subangular; moist; medium stiff; dark gray (10YR 4/1).	
					0.0				
15					0.0				
		4	13.0-17.0	3.8	0.0				
					0.0				
					0.0				
					0.0			End of boring at 17.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater not detected No Odor or Staining detected
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Date Start/Finish: 5/18/12 Drilling Company: Stock Driller's Name: Jake B Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453916.17 Easting: 13064626.22 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 863.41 Descriptions By: Colleen Barton	Well/Boring ID: SB-A14-DA109 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
		1	0.0-5.0	5.0	NA			(0.0-0.85) CONCRETE	
					0.0			(0.85-3.0) SAND, fine to coarse, trace small to large pebbles, subrounded; little clay; poorly sorted; moist; brown.	
					0.0				
860					0.0			(3.0-14.6) CLAY, high to medium plasticity; little fine to coarse sand, trace granules to small pebbles, subangular to subrounded; dry; stiff; brown (10YR 4/3).	
					0.0				
5					0.0				
		2	5.0-9.0	4.0	0.0				
					0.0				
					0.0				
855					0.0			NOTE: mottled coloration; little silt; from 8.0'-9.0' bgs.	
					0.0				
					0.0				
10					0.0				
		3	9.0-13.0	0.7	NA				
					NA				
					NA				
850					0.0			NOTE: medium to coarse sand seams; wet; from 13.0'-14.6' bgs.	
					0.0				
					0.0				
15					0.0			(14.6-17.0) CLAY, high plasticity; trace fine sand, trace granules to medium pebbles, subrounded to subangular; dry; medium stiff; dark gray.	
		4	13.0-17.0	3.5	0.0				
					0.0				
					0.0				
					0.0				
								End of boring at 17.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected from 13.0'-14.6' bgs No Odor or Staining detected
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Date Start/Finish: 9.18.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 452852.9592 Easting: 13064636.25 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 863.49 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A15-HC110 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	0								
		1	0.0-5.0	2.6	0.0			(0.0-0.7') CONCRETE.	
					0.0			(0.7-1.0') SAND, fine; moist; brown (10YR 4/3).	
					0.0			(1.0-2.4') CONCRETE.	
					0.0			(2.4-5.0') CLAY, low plasticity; and SAND, fine, trace granules, subangular; dry; medium stiff; brown (10YR 4/3).	
					0.0				
5	-5	2	5.0-10.0	4.6	0.0			(5.0- 11.0') CLAY, high plasticity; trace fine sand, trace granules to small pebbles, subangular; dry; medium stiff; brown (10YR 4/3).	
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
10	-10	3	10.0-15.0	4.9	0.0			(11.0-12.9') SAND, fine to coarse, subangular; poorly sorted; saturated; dark grayish brown (10YR 4/2).	
					0.0				

	Remarks: bgs = below ground surface Groundwater encountered from 11.0'-12.9' bgs. No odor or staining observed.
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Date Start/Finish: 9.18.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 452852.9592 Easting: 13064636.25 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 863.49 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A15-HC110 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	-15	4	15.0-20.0	5.0	0.0			(12.9-20.0') CLAY, high plasticity; trace fine sand, trace granules to small pebbles, angular; dry; medium stiff; gray (10YR 5/1).	
20	-20				0.0			End of boring at 20.0' bgs.	
25	-25								

	Remarks: bgs = below ground surface Groundwater encountered from 11.0'-12.9' bgs. No odor or staining observed.
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Date Start/Finish: 5/16/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452852.24 Easting: 13064659.48 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 863.56 Descriptions By: Colleen Barton	Well/Boring ID: SB-A15-HC113 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
		1	0.0-5.0	4.0	0.0			(0.0-0.7) CONCRETE	
					0.6			(0.7-1.0) SAND, fine to medium, trace granules, subrounded; trace clay; well sorted; dry; brown (10YR 4/3).	
					NA			(1.0-5.0) CLAY, low plasticity; little fine to medium sand, trace granules, subangular; dry; soft; brown. NOTE: Brick debris.	
860					0.3				
					0.1				
5		2	5.0-9.0	3.1	NA			(5.0-11.0) CLAY, high plasticity; trace granules to small pebbles, subangular; dry; stiff; brown.	
					0.1			NOTE: color change to dark gray at 7.0' bgs.	
					0.1			NOTE: very fine sand and silt seam; dry; at 8.5' bgs.	
855					0.1				
		3	9.0-13.0	2.8	NA			(11.0-12.0) SAND, fine to coarse, trace granules to medium pebbles, subangular to subrounded; trace silt; poorly sorted; wet; brown.	
					0.0			(12.0-12.3) PEAT, very fine to fine sand; trace roots; very stiff; black.	
					0.1			(12.3-12.7) CLAY, low plasticity; dry; hard; dark gray (10YR 4/1) with greenish hue.	
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 11.0'-12.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/16/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452852.24 Easting: 13064659.48 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 863.56 Descriptions By: Colleen Barton	Well/Boring ID: SB-A15-HC113 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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850					NA			(12.7-13.0) SAND, very fine to fine, trace medium sand; well sorted; moist; dark gray.	
15		4	13.0-17.0	2.7	0.0			(13.0-18.4) CLAY, high plasticity; trace granules to small pebbles, subangular; dry; stiff; dark gray.	
					0.0				
					0.0				
					0.0				
845					0.0				
		5	17.0-21.0	4.0	0.0			(18.4-21.0) SILT, no plasticity; and SAND, very fine, trace fine to medium sand, trace small to medium pebbles, subrounded to subangular; moist to wet; dark gray.	
20					0.0				
					0.0				
					0.0				
								End of boring at 21.0' bgs	
840									
25									
835									

	Remarks: BGS = Below ground surface Groundwater detected between 11.0'-12.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/16/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452862.24 Easting: 13064669.66 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 863.56 Descriptions By: Colleen Barton	Well/Boring ID: SB-A15-HC114 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
					0.0			(0.0-0.7) CONCRETE	
								(0.7-1.0) SAND, fine to medium; well sorted; moist; brown.	
		1	0.0-5.0	4.0	0.0			(1.0-8.5) SAND, fine to medium, trace small pebbles, subrounded; some clay; poorly sorted; dry; brown.	
					NA				
860					0.6			NOTE: slight odor from 3.0'-4.0' bgs.	
					0.1				
5					NA				
		2	5.0-9.0	1.8	NA			NOTE: trace clay; trace coarse sand; wet at 7.0' bgs.	
					0.1				
855					0.0			(8.5-10.5) CLAY, high plasticity; trace granules to small pebbles, subangular; stiff; dry; brown (10YR 4/3).	
10					0.0			(10.5-10.8) SAND, medium to granule, trace small pebbles, subangular to subrounded; wet; brown.	
		3	9.0-13.0	3.0	0.0			(10.8-12.0) CLAY, low plasticity; little fine to medium sand, little granules to small pebbles, subrounded to subangular; dry; stiff; brown (10YR 4/3).	
					0.0			(12.0-13.0) PEAT, low plasticity; little very fine sand; dry; hard; black. NOTE: organics; trace roots.	
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected at 7.0' and between 10.5'-10.8' bgs Odor detected between 3.0'-4.0' bgs No Staining detected
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Date Start/Finish: 5/16/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452852.24 Easting: 13064679.78 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 863.52 Descriptions By: Colleen Barton	Well/Boring ID: SB-A15-HC115 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
		1	0.0-5.0	5.0	0.1			(0.0-0.7) CONCRETE	
					0.1			(0.7-1.0) SAND, fine to medium, trace small pebbles, subangular; well sorted; moist; brown.	
					0.1			(1.0-12.0) CLAY, high plasticity; little fine sand, trace coarse sand, subangular; dry; soft; brown (10YR 4/3).	
					0.2				
860					0.2				
					1.0				
5					NA			NOTE: trace fine sand at 5.0' bgs.	
		2	5.0-9.0	2.8	0.0				
					0.0				
					0.0			NOTE: color change to yellowish brown (10YR 5/4); change to very stiff at 8.0' bgs.	
855					0.0				
		3	9.0-13.0	2.9	0.0				
					0.0			NOTE: medium to coarse and seams; dry; mottled coloration; from 11.0'-12.0' bgs.	
					0.0				
10					0.0			(12.0-13.0) PEAT, no plasticity; some fine sand; dry; hard; black (10YR 2/1). NOTE: organics; trace roots.	
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 0.7'-1.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/16/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452852.24 Easting: 13064679.78 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 863.52 Descriptions By: Colleen Barton	Well/Boring ID: SB-A15-HC115 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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850					0.0			(13.0-21.0) CLAY, high plasticity; trace granules to small pebbles, subangular; dry; hard; dark grayish brown (10YR 4/2).	
15		4	13.0-17.0	3.9	0.0				
					0.0				
					0.0				
					0.0				
					0.0				
845		5	17.0-21.0	1.1	NA			NOTE: little fine sand from 17.0'-18.0' bgs.	
20					NA				
					NA				
					NA				
								End of boring at 21.0' bgs	
840									
25									
835									

	Remarks: BGS = Below ground surface Groundwater detected between 0.7'-1.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/15/12-5/16/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452842.24 Easting: 13064669.44 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 863.43 Descriptions By: Colleen Barton	Well/Boring ID: SB-A15-HE114 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
		1	0.0-5.0	5.0	NA			(0.0-0.8) CONCRETE	
					1.0			(0.8-6.0) SAND, very fine to fine, trace granules to medium pebbles, subrounded; some clay, little silt; poorly sorted; dry; yellowish brown (10YR 5/4).	
					1.7				
860					1.7				
					1.6			NOTE: decrease clay content from 4.0'-5.0' bgs.	
5					0.0			NOTE: moist to wet from 5.0'-6.0' bgs.	
		2	5.0-9.0	1.6	0.0			(6.0-9.5) CLAY, medium plasticity; trace granules to small pebbles, subangular; dry; very stiff to hard; yellowish brown (10YR 5/4).	
					0.0				
					NA				
855					NA				
		3	9.0-13.0	1.0	0.0			(9.5-14.7) SAND, medium to coarse, trace very coarse sand, subangular; well sorted; wet; yellowish brown.	
					NA				
					NA				
					NA				
10									

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 5.0'-6.0', 9.5'-14.7' and 17.7'- 18.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/15/12-5/16/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452842.24 Easting: 13064669.44 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 863.43 Descriptions By: Colleen Barton	Well/Boring ID: SB-A15-HE114 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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850					NA				
15		4	13.0-17.0	2.3	0.0			(14.7-17.7) CLAY, high plasticity; trace coarse sand to small pebbles, subangular; medium stiff; dry; dark gray (10YR 4/1).	
					0.0				
					0.0				
					0.0				
					0.0			(17.7-18.0) SAND, very fine to fine, trace small pebbles, subangular; some silt, trace clay; poorly sorted; moist to wet; dark gray. NOTE: Poor recovery.	
845		5	17.0-21.0	1.2	0.0			(18.0-25.0) No recovery.	
20					0.0				
					NA				
					NA				
					NA				
840		6	21.0-25.0	0.0	NA				
					NA				
					NA				
25					NA				
								End of boring at 25.0' bgs	
835									

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 5.0'-6.0', 9.5'-14.7' and 17.7'- 18.0' bgs No Odor or Staining detected
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Date Start/Finish: 9.18.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 452818.6985 Easting: 13064670.26 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 863.50 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A15-HG114 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	0								
		1	0.0-5.0	4.1	NA			(0.0-0.9') CONCRETE.	
					0.0			(0.9-3.0') SAND, fine; well sorted; moist; dark yellowish brown (10YR 4/6).	
					0.0				
					0.0			(3.0-5.5') CLAY, low plasticity; some fine sand, trace granules, subangular; dry; medium to stiff; brown (10YR 4/3).	
5	-5				0.0				
		2	5.0-10.0	4.1				(5.5-8.3') SAND, fine to coarse, subrounded to subangular; poorly sorted; saturated; brown (10YR 4/3).	
					0.0				
					0.0			(8.3-20.0') CLAY, high plasticity; trace fine sand, trace granules to small pebbles, angular; dry; stiff; gray (10YR 5/1).	
					0.0				
10	-10				0.0				
		3	10.0-15.0	3.9					
					0.0				

	Remarks: bgs = below ground surface Groundwater encountered from 5.5'-8.3' bgs. No odor or staining observed.
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Date Start/Finish: 9.18.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 452818.6985 Easting: 13064670.26 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 863.50 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A15-HG114 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	-15	4	15.0-20.0	4.7	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0				
20	-20							End of boring at 20.0' bgs.	
25	-25								

	Remarks: bgs = below ground surface Groundwater encountered from 5.5'-8.3' bgs. No odor or staining observed.
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Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 452910.24 Easting: 13065156.90 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 861.25 Descriptions By: A. Villhauer	Well/Boring ID: SB-A16-GX162 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860		1	1.0-5.0	5.0	0.0			(0.0-2.0) SAND, fine, trace small pebbles, subround; well sorted; dry; very dark brown (10YR 2/2). NOTE: FILL	
					0.0				
					0.0			(2.0-8.1) CLAY, medium plasticity; some fine sand; dry; medium stiff; very dark brown (10YR 2/2).	
					0.0				
5					0.0				
855		2	5.0-10.0	4.0	0.0			(8.1-20.0) CLAY, high plasticity; little fine sand, trace granule to medium pebble, subangular; dry; stiff; brown (10YR 4/3). NOTE: Glacial TILL	
					0.0				
					0.0				
10					0.0			NOTE: dark gray (10YR 4/1) at 10.0' bgs..	
850		3	10.0-15.0	5.0	0.0				
					0.0				
					0.0				
					0.0				
					0.0				

	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected
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Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 452910.24 Easting: 13065156.90 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 861.25 Descriptions By: A. Villhauer	Well/Boring ID: SB-A16-GX162 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15					0.0				
845					0.0				
					0.0				
		4	15.0-20.0	4.5	0.0				
					0.0				
					0.0				
20					0.0			End of Boring at 20.0' bgs.	
840									
25									
835									
30									

	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected
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Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 452880.21 Easting: 13065126.51 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 861.49 Descriptions By: A. Villhauer	Well/Boring ID: SB-A16-HA159 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860		1	1.0-5.0	5.0	0.0			(0.0-2.0) SAND, fine, trace small pebble, subround; well sorted; dry; very dark brown (10YR 2/2). NOTE: FILL	
					0.0			(2.0-6.0) CLAY, medium plasticity; some fine sand, trace small pebble, subround.	
5					0.0				
855		2	5.0-10.0	5.0	0.0			(6.0-20.0) CLAY, high plasticity; little fine sand, trace granule to medium pebble, subangular; dry; stiff; brown (10YR 4/3). NOTE: dark gray (10YR 4/1) at 8.5' bgs.	
					0.0			NOTE: medium sand seam from 9.7'-10.0' bgs.	
10					0.0			NOTE: Glacial TILL	
850		3	10.0-15.0	5.0	0.0				Borehole backfilled with Grout.
					0.0				

	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected
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Date Start/Finish: 6/5/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 452880.21 Easting: 13065126.51 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 861.49 Descriptions By: A. Villhauer	Well/Boring ID: SB-A16-HA159 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15					0.0				
845					0.0				
		4	15.0-20.0	4.0	0.0				
					0.0				
					0.0				
20					0.0				
840								End of boring at 20.0' bgs.	
25									
835									
30									

	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected
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Date Start/Finish: 6/6/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452880.38 Easting: 13065185.89 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 861.14 Descriptions By: A. Villhaues	Well/Boring ID: SB-A16-HA165 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860								(0.0-2.0) SAND, fine, trace small pebbles, subround; trace clay; dry; dark brown (10YR 3/3).	
		1	0.0-5.0	5.0	0.0				
					0.7				
					0.6			(2.0-7.5) CLAY, low plasticity; some fine sand; dry; stiff; dark brown (10YR 3/3).	
					0.2				
5					0.2				
					0.0				
855		2	5.0-10.0	3.5	0.0				
					0.0				
					0.7			(7.5-12.0) CLAY, high plasticity; little fine sand, trace small pebbles, subangular; dry; stiff; brown (10YR 4/3).	
					0.4				
10					0.0				
850					0.0				
					0.0				
					0.0				
		3	10.0-15.0	4.2	0.0			(12.0-15.0) SAND, fine to granule, subangular; poorly sorted; moist; brown (10YR 4/3).	
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater not encountered. No Odor or Staining detected
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Date Start/Finish: 6/6/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452880.38 Easting: 13065185.89 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 861.14 Descriptions By: A. Villhaues	Well/Boring ID: SB-A16-HA165 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15				6.0					
845				0.0				(15.0-20.0) CLAY, high plasticity; little fine sand, trace granules to small pebbles, angular; dry; stiff; dark gray (10YR 4/1).	
	4	15.0-20.0	4.1	0.0					
				0.0					
				0.0					
				0.0					
20				0.0				End of boring 20.0' bgs	
840									
25									
835									
30									

	Remarks: BGS = Below ground surface Groundwater not encountered. No Odor or Staining detected
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Date Start/Finish: 6/6/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452850.17 Easting: 13065157.24 Casing Elevation: NA Borehole Depth: 25.0' bgs. Surface Elevation: 860.90 Descriptions By: A. Villhaues	Well/Boring ID: SB-A16-HD162 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860					0.0			(0.0-1.0) SAND, fine, trace granule to small pebble, subrounded; well sorted; dry; brown (10YR 3/3). NOTE: FILL	
		1	0.0-5.0	5.0	1.7			(1.0-14.5) CLAY, medium plasticity; little fine sand, trace granule, subangular; dry; medium stiff; dark brown (10YR 3/3).	
					0.6				
					0.2				
5					0.0				
855		2	5.0-10.0	3.8	0.0				
					0.0				
					0.0			NOTE: green and black discoloration from 8.0'-10.0' bgs.	
					0.0			NOTE: high plasticity; soft at 9.0' bgs.	
10					0.0				
850		3	10.0-15.0	4.6	0.0				
					0.0				
					0.0				
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater encountered at 14.5' bgs No Odor or Staining detected Groundwater sample collected from 15-20' bgs
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Date Start/Finish: 6/6/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452850.17 Easting: 13065157.24 Casing Elevation: NA Borehole Depth: 25.0' bgs. Surface Elevation: 860.90 Descriptions By: A. Villhaues	Well/Boring ID: SB-A16-HD162 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	845	4	15.0-20.0	3.2	0.0			(14.5-20.5) SAND, fine to coarse, subangular; poorly sorted; wet; grayish brown (10YR 5/2).	
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
20	840				0.0			(20.5-25.0) CLAY, high plasticity; little fine sand, trace granule to medium pebble, subangular; dry; stiff; dark gray (10YR 4/1).	
					0.0			NOTE: TILL	
		5	20.0-25.0	3.0	0.0				
					0.0				
					0.0				
25	835							End of boring at 25.0' bgs	
30									

	Remarks: BGS = Below ground surface Groundwater encountered at 14.5' bgs No Odor or Staining detected Groundwater sample collected from 15-20' bgs
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Date Start/Finish: 9.20.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 452727.2908 Easting: 13065185.35 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 859.44 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A16-HP165 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	0								
		1	0.0-5.0	5.0	NA			(0.0- 0.3') TOPSOIL.	
					0.0			(0.3-3.0') CLAY, low plasticity; some fine sand, trace small pebbles, subrounded; dry; stiff; brown (10YR 4/3).	
					NA				
					NA			(3.0-5.0') SAND, fine, some granules to small pebbles, angular; poorly sorted; dry; pale brown (10YR 6/3).	
					NA				
5	-5				NA			(5.0-9.2') CLAY, low plasticity; some fine sand, trace small pebbles, subrounded; dry; stiff; brown (10YR 4/3).	
		2	5.0-10.0	2.5	NA				
					NA				
					NA				
					NA			(9.2-18.0') CLAY, high plasticity; trace fine sand; moist; medium to stiff; gray (10YR 5/1).	
10	-10				NA			NOTE: Black discoloration from 9.2-10.0' bgs.	
		3	10.0-15.0	3.5	NA			NOTE: Stiffness decrease to soft at 11.0' bgs.	
					NA				
					NA				

	Remarks: bgs = below ground surface Groundwater encountered from 18.0'-18.9' bgs. No odor or staining observed.
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Date Start/Finish: 9.20.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 452727.2908 Easting: 13065185.35 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 859.44 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A16-HP165 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	-15	4	15.0-20.0	3.8	NA				
					NA				
					NA				
					NA				
					NA				
					NA			(18.0-18.9') SAND, medium to coarse, subrounded; some granules, subangular; poorly sorted; saturated; dark grayish brown (10YR 4/2).	
					NA			(18.9-20.0') CLAY, high plasticity; trace fine sand; moist; soft; gray (10YR 5/1).	
20	-20				NA			End of boring at 20.0' bgs.	
25	-25								

	Remarks: bgs = below ground surface Groundwater encountered from 18.0'-18.9' bgs. No odor or staining observed.
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Boring Log .

Project No.: 01-4172-0

Boring No.: SB-A16-HP178

Project Name: RACER Lansing Plants

Date Drilled: 11/28/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		(0.0 - 0.3) TOPSOIL / GRASS		-	0.0	
		CL- (0.3 - 5.0) CLAY		-	0.0	
2		low plasticity; little fine sand, trace small pebbles, subangular; moist; medium stiff; brown (10YR 4/3)	HP-178 2.0' - 3.0'	-	0.0	
				-	0.0	
4				-	0.0	
				-	0.0	
6		(5.0 - 10.0) NO RECOVERY		-	0.0	
				-	0.0	
8				-	0.0	
				-	0.0	
10				-	0.0	
		CH- (10.0 - 19.2) CLAY	HP-178 10.0' - 11.0'	-	0.0	
		high plasticity; moist; soft; gray (10YR 5/1)		-	0.0	
12				-	0.0	
				-	0.0	
14				-	0.0	
				-	0.0	
16				-	0.0	
				-	0.0	
18				-	0.0	
				-	0.0	
20		SW- (19.2 - 22.0) SAND	HP-178	-	0.0	
		fine to coarse; subangular; little granules to small pebbles, subrounded; saturated; dark gray (10YR 4/1)			0.0	
22					0.0	
		CH- (22.0 - 25.0) CLAY	19.0' - 23.0'		0.0	
		high plasticity; trace fine sand, trace granules to small pebbles, subangular; moist; medium stiff; gray (10YR 5/1)			0.0	
24			19.0' - 25.0'		0.0	
		Note: fining upward				
26						

Completion Notes: End Of Boring at 25' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4172-0

Boring No.: SB-A16-HQ168

Project Name: RACER Lansing Plants

Date Drilled: 11/09/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		SC- (0.0 - 2.0) SAND fine and clay, trace granules to small pebbles, subangular; moist; brown (10YR 4/3)	HQ-168 1.0' - 2.0'	-	0.0	
2		Note: staining (black) 1.0' - 2.0'		-	0.0	
		CLS- (2.0 - 6.0) CLAY low plasticity; some fine sand, trace granules to small pebbles, subangular; moist; medium stiff; brown (10YR 4/3)		-	0.0	
4				-	0.0	
			HQ-168	-	0.0	
6		SWG- (6.0 - 8.5) SAND fine to coarse, some granules to medium pebbles, subangular; some concrete and organic debris, trace clay, poorly sorted; very dark brown (10YR 2/2)		-	0.0	
8				-	0.0	
		CH- (8.5 - 20.0) CLAY high plasticity; trace fine sand, trace granules, angular; moist; medium stiff; gray (10YR 5/1)	5.0' - 9.0'	-	0.0	
10		Note: becomes soft at 12.0' - 18.0' absense of granules		-	0.0	
			HQ-168 10.0' - 11.0'	-	0.0	
12				-	0.0	
				-	0.0	
14				-	0.0	
				-	0.0	
16				-	0.0	
			HQ-168 17.0' - 18.0'	-	0.0	
18				-	0.0	
				-	0.0	
20						

Completion Notes: End Of Boring at 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 6/6/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452707.44 Easting: 13065156.29 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 859.01 Descriptions By: A. Villhaues	Well/Boring ID: SB-A16-HR162 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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860									
0					0.0			(0.0-3.0) SAND, fine, trace small pebbles, subround; dry; brown (10YR 4/3).	
					0.0			NOTE: FILL.	
		1	0.0-5.0	5.0	0.0			(3.0-11.5) CLAY, medium plasticity; some fine sand; dry; stiff; brown (10YR 4/3).	
855					0.0				
5					0.0				
		2	5.0-10.0	3.9	0.0				
					0.0				
850					0.0			NOTE: green discoloration from 9.0'-10.0' bgs.	
10					0.0				
					0.0				
		3	10.0-15.0	3.5	0.0			(11.5-15.0) CLAY, little silt, high plasticity; little fine sand; moist; soft; gray (10YR 5/1).	
					0.0				
845					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected
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Date Start/Finish: 6/6/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452707.44 Easting: 13065156.29 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 859.01 Descriptions By: A. Villhaues	Well/Boring ID: SB-A16-HR162 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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845					0.0				
15		4	15.0-20.0	3.5	0.0			(15.0-20.0) CLAY, high plasticity; little fine sand, trace granules to small pebbles, angular; dry; stiff; dark gray (10YR 4/1). NOTE: TILL.	
					0.0				
					0.0				
					0.0				
840					0.0				
20					0.0			End of boring 20.0' bgs	
835									
25									
830									
30									

	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected
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Date Start/Finish: 6/6/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452677.39 Easting: 13065125.36 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 860.01 Descriptions By: A. Villhaues	Well/Boring ID: SB-A16-HU159 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	860								
					0.2			(0.0-2.0) SAND, fine; little clay; dry; brown (10YR 4/3).	
					1.7			NOTE: FILL	
		1	0.0-5.0	5.0	1.4			(2.0-6.5) CLAY, medium plasticity; some fine sand; soft; dry; brown (10YR 4/3).	
					0.7				
					0.2				
5	855							NOTE: little fine sand; stiff at 5.0' bgs.	
					0.1				
		2	5.0-10.0	3.0	0.1			(6.5-12.0) SAND, fine; well sorted; moist; yellowish brown (10YR 5/4).	
					0.0				
					0.2				
					0.0			NOTE: clay seam, high plasticity; stiff from 9.8'-10.0' bgs.	
10	850				0.0			NOTE: wet at 10.0' bgs.	
					0.0				
					0.0				
		3	10.0-15.0	4.0	0.0			(12.0-14.5) CLAY, little silt, high plasticity; some fine sand; soft; moist; gray (10YR 5/1).	
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater encountered at 10.0' bgs No Odor or Staining detected Groundwater sample collected from 10.0-14.0' bgs
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Date Start/Finish: 6/6/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452677.06 Easting: 13065185.80 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 858.78 Descriptions By: A. Villhaues	Well/Boring ID: SB-A16-HU165 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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860									
0									
					0.0			(0.0-3.0) SAND, fine, trace small pebble, subrounded; trace clay; dry; brown (10YR 4/3).	
					0.2				
					0.5			NOTE: FILL	
		1	0.0-5.0	5.0	0.6			(3.0-7.0) CLAY, medium plasticity; some fine sand, trace small pebble, subrounded; dry; stiff; brown (10YR 4/3).	
855					0.9				
5					0.9				
		2	5.0-10.0	2.9	0.0			(7.0-9.0) CONCRETE, debris.	
					0.0				
850					0.0			(9.0-16.7) CLAY, little silt, high plasticity; little fine sand; moist; soft; gray (10YR 5/1).	
10					0.0				
		3	10.0-15.0	4.5	0.0				
					0.0				
					0.0				
					0.0				
845					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected
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Date Start/Finish: 6/6/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452677.06 Easting: 13065185.80 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 858.78 Descriptions By: A. Villhaues	Well/Boring ID: SB-A16-HU165 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15					0.0				
		4	15.0-20.0	4.5	0.0			(16.7-20.0) CLAY, high plasticity; little fine sand, trace granule to small pebble, angular; dry; stiff; dark gray (10YR 4/1).	
					0.0			NOTE: TILL	
840					0.0				
20					0.0			End of boring 20.0' bgs	
835									
25									
830									
30									

	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected
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Date Start/Finish: 9.20.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 452678.3325 Easting: 13065215.56 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 859.04 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A16-HU168 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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860									
0								(0.0-0.3') TOPSOIL.	
		1	0.0-5.0	5.0		NA		(0.3-4.5') CLAY, low plasticity; some fine sand, trace small pebbles, subrounded; dry; medium stiff; brown (10YR 4/3).	
855									
5								(4.5-10.0') SAND, fine; moist; dark brown (10YR 3/3). NOTE: Some debris (crushed concrete, asphalt, and glass).	
		2	5.0-10.0	2.5					
850									
10								(10.0-20.0') CLAY, high plasticity; trace fine sand; moist; soft; gray (10YR 5/1).	
		3	10.0-15.0	3.0					

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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Boring Log .

Project No.: 01-4172-0

Boring No.: SB-A16-HV178

Project Name: RACER Lansing Plants

Date Drilled: 11/28/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0.0 - 0.3		(0.0 - 0.3) TOPSOIL / GRASS	HV-178 0.0' - 1.0'	-	0.0	
0.3 - 3.5		SP- (0.3 - 3.5) SAND fine to medium; well sorted; moist; dark yellowish brown (10YR 4/6)		-	0.0	
3.5 - 6.0		SWG- (3.5 - 6.0) SAND fine to coarse; subangular; some granules, angular; some concrete and organic debris, poorly sorted; moist; very dark brown (10YR 2/2)		-	0.0	
6.0 - 15.0		CH- (6.0 - 15.0) CLAY high plasticity; trace fine sand, moist; soft; dark gray (10YR 4/2)	HV-178 5.0' - 6.0'	-	0.0	
15.0 - 17.5		SW- (15.0 - 17.5) SAND fine to coarse; subangular; little granules to small pebbles, subrounded; poorly sorted; saturated; dark gray (10YR 4/1)		-	0.0	
17.5 - 25.0		CH- (17.5 - 25.0) CLAY high plasticity; trace fine sand, trace small pebbles, subangular; moist; medium stiff; gray (10YR 4/1)		-	0.0	
25.0 - 24.0			HV-178 24.0' - 25.0'	-	0.0	
24.0 - 25.0				-	0.0	
25.0 - 24.0				-	0.0	
24.0 - 25.0				-	0.0	
25.0 - 24.0				-	0.0	
24.0 - 25.0				-	0.0	
25.0 - 24.0				-	0.0	
24.0 - 25.0				-	0.0	
25.0 - 24.0				-	0.0	
24.0 - 25.0				-	0.0	
25.0 - 24.0				-	0.0	
24.0 - 25.0				-	0.0	
25.0 - 24.0				-	0.0	
24.0 - 25.0				-	0.0	
25.0 - 24.0				-	0.0	
24.0 - 25.0				-	0.0	
25.0 - 24.0				-	0.0	
24.0 - 25.0				-	0.0	
25.0 - 24.0				-	0.0	
24.0 - 25.0				-	0.0	

Completion Notes: End Of Boring at 25' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 6/6/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452647.22 Easting: 13065156.07 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 585.51 Descriptions By: A. Villhaues	Well/Boring ID: SB-A16-HX162 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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860									
0					0.0			(0.0-2.0) SAND, fine; trace clay; dry; brown (10YR 4/3).	
					0.2			NOTE: FILL.	
		1	0.0-5.0	5.0	0.1			(2.0-11.0) CLAY, medium plasticity; some fine sand, trace granules, subround; dry; medium stiff; brown (10YR 4/3).	
855					0.0				
5					0.0				
		2	5.0-10.0	3.9	0.0				
					0.0				
					0.2			NOTE: little fine sand; black and green discoloration from 8.0'-11.0' bgs.	
850					0.0				
10					0.0				
		3	10.0-15.0	4.7	0.0			(11.0-16.3) CLAY, little silt, high plasticity; little fine sand; moist; soft; gray (10YR 5/1).	
					0.0				
					0.0				
845					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected
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Date Start/Finish: 6/6/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452647.22 Easting: 13065156.07 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 585.51 Descriptions By: A. Villhaues	Well/Boring ID: SB-A16-HX162 Client: RACER Trust Location: Lansing, MI
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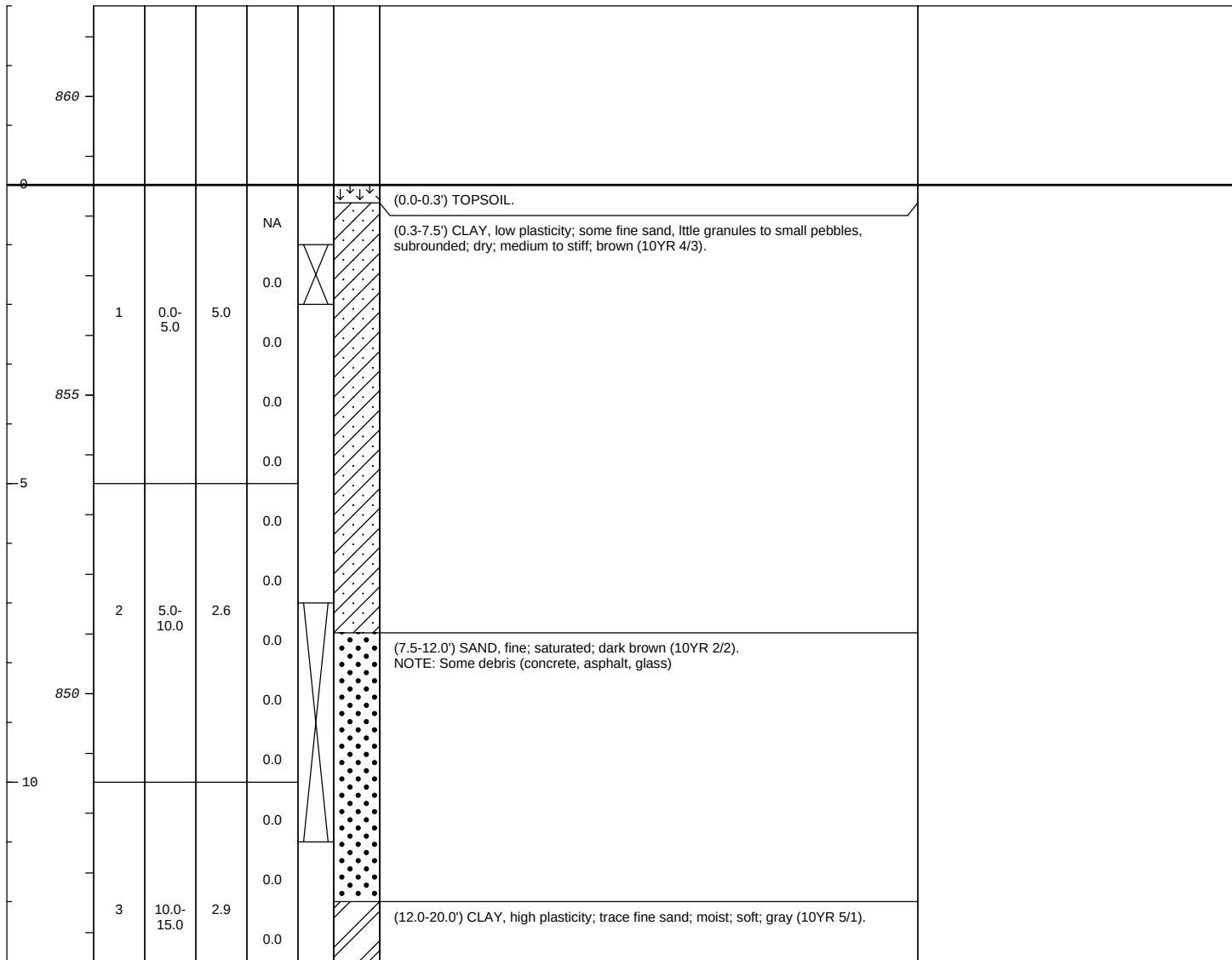
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15					0.0				
		4	15.0-20.0	4.1	0.0			(16.3-20.0) CLAY, high plasticity; little fine sand, trace granules o medium pebbles, angular; dry; stiff; dark gray (10YR 4/1).	
					0.0			NOTE: TILL.	
840					0.0				
					0.0				
20					0.0			End of boring 20.0' bgs	
835									
25									
830									
30									

	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected
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Date Start/Finish: 9.20.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 452646.0408 Easting: 13065185.87 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 858.52 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A16-HX165 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: bgs = below ground surface Groundwater encountered from 7.5'-12.0' bgs. No odor or staining observed.
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Boring Log .

Project No.: 01-4172-0

Boring No.: SB-A16-HX176

Project Name: RACER Lansing Plants

Date Drilled: 11/28/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0		(0.0 - 0.3) TOPSOIL / GRASS	HX-176 0.0' - 1.0'	-	0.0	
2		CL- (0.3 - 6.0) CLAY low plasticity; little fine sand, trace granules to small pebbles, subangular; moist; medium stiff; brown (10YR 4/3)		-	0.0	
4		Note: crushed brick and glass @ 4.0' - 5.0'		-	0.0	
6			HX-176 5.0' - 6.0'	-	0.0	
8		CH- (6.0 - 12.5) CLAY high plasticity; trace fine sand, moist; soft; gray (10YR 5/1)		-	0.0	
10				-	0.0	
12				-	0.0	
14		CH- (12.5 - 19.0) CLAY high plasticity; trace fine sand, trace granules to small pebbles, subangular; moist; medium stiff; gray (10YR 5/1)		-	0.0	
16			HX-176 15.0' - 16.0'	-	0.0	
18				-	0.0	
20		SP- (19.0 - 22.0) SAND fine; well sorted; saturated; gray (10YR 5/1)	HX-176	-	0.0	
22					0.0	
24		CH- (22.0 - 25.0) CLAY high plasticity; trace fine sand, trace small pebbles, subangular; moist; medium stiff; gray (10YR 5/1)	19.0' - 23.0'		0.0	
26					0.0	

Completion Notes: End Of Boring at 25' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4172-0

Boring No.: SB-A16-HY168

Project Name: RACER Lansing Plants

Date Drilled: 11/09/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
		CL- (0.0 - 6.5) CLAY low plasticity; little fine sand, trace granules to small pebbles, subangular; moist; medium stiff; brown (10YR 4/3)		-	0.0	
2			HY-168 1.0' - 2.0'	-	0.0	
				-	0.0	
4				-	0.0	
				-	0.0	
6				-	0.0	
			HY-168	-	0.0	
8		SWG- (6.5 - 10.0) SAND fine to coarse; some granules to small pebbles, angular; little concrete and organic debris, poorly sorted; saturated; very dark brown (10YR 2/2)		-	0.0	
				-	0.0	
10				-	0.0	
				-	0.0	
12		CH- (10.0 - 20.0) CLAY high plasticity; trace small pebbles, angular; moist; soft; gray (10YR 5/1) Note: stiffness increase to medium stiff at 19.5' Note: greenish discoloration 10.0' - 13.0'		-	0.0	
			HY-168 11.0' - 12.0'	-	0.0	
14				-	0.0	
				-	0.0	
16				-	0.0	
				-	0.0	
18			HY-168 17.0' - 18.0'	-	0.0	
				-	0.0	
20				-	0.0	

Completion Notes: End Of Boring at 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4172-0

Boring No.: SB-A16-IE168

Project Name: RACER Lansing Plants

Date Drilled: 11/28/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

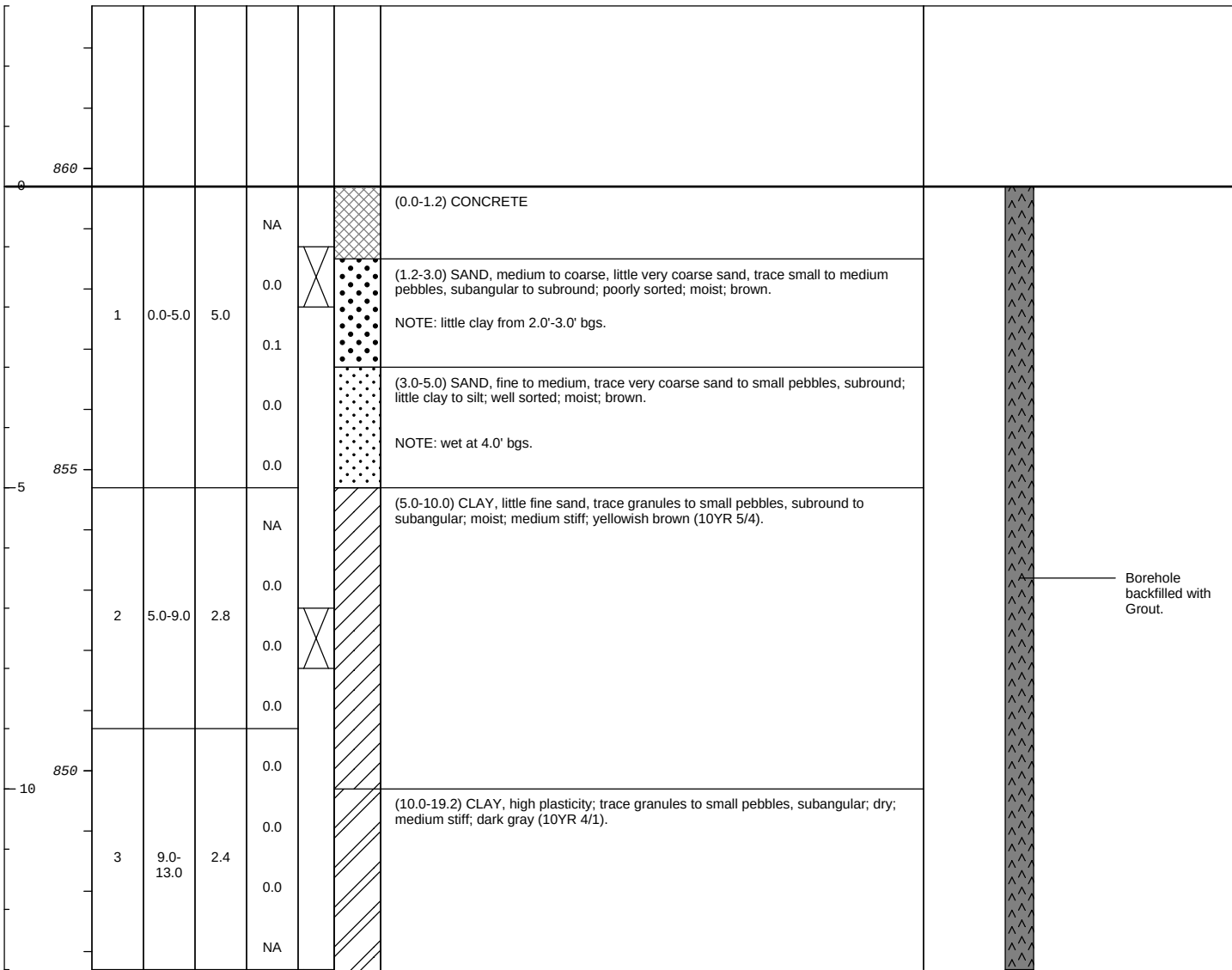
Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0		(0.0 - 0.3) TOPSOIL / GRASS	IE-168 0.0' - 1.0'	-	0.0	
2		CL- (0.3 - 4.8) CLAY low plasticity; little fine sand, trace granules to small pebbles, subangular; moist; medium stiff; brown (10YR 4/3)		-	0.0	
4				-	0.0	
6		SWG- (4.8 - 7.0) SAND fine to coarse, subangular; some granules to small pebbles, some concrete and organic debris, trace clay, poorly sorted; moist; very dark brown (10YR 2/2)	IE-168 6.0' - 7.0'	-	0.0	
8		CH- (7.0 - 11.5) CLAY high plasticity; moist; soft; gray (10YR 5/1)		-	0.0	
10				-	0.0	
12		CH- (11.5 - 20.0) CLAY high plasticity; trace fine sand, trace granules to small pebbles, angular-subangular; moist; medium stiff; gray (10YR 5/1)		-	0.0	
14				-	0.0	
16			IE-168 15.0' - 16.0'	-	0.0	
18				-	0.0	
20			IE-168	-	0.0	
22		SM- (20.0 - 22.3) SAND fine; some silt, saturated; gray (10YR 5/1)			0.0	
24		CH- (22.3 - 25.0) CLAY high plasticity; little silt, trace fine sand, trace small pebbles, angular; moist; medium stiff; gray (10YR 5/1)	19.0' - 23.0'		0.0	
26					0.0	

Completion Notes: End Of Boring at 25' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

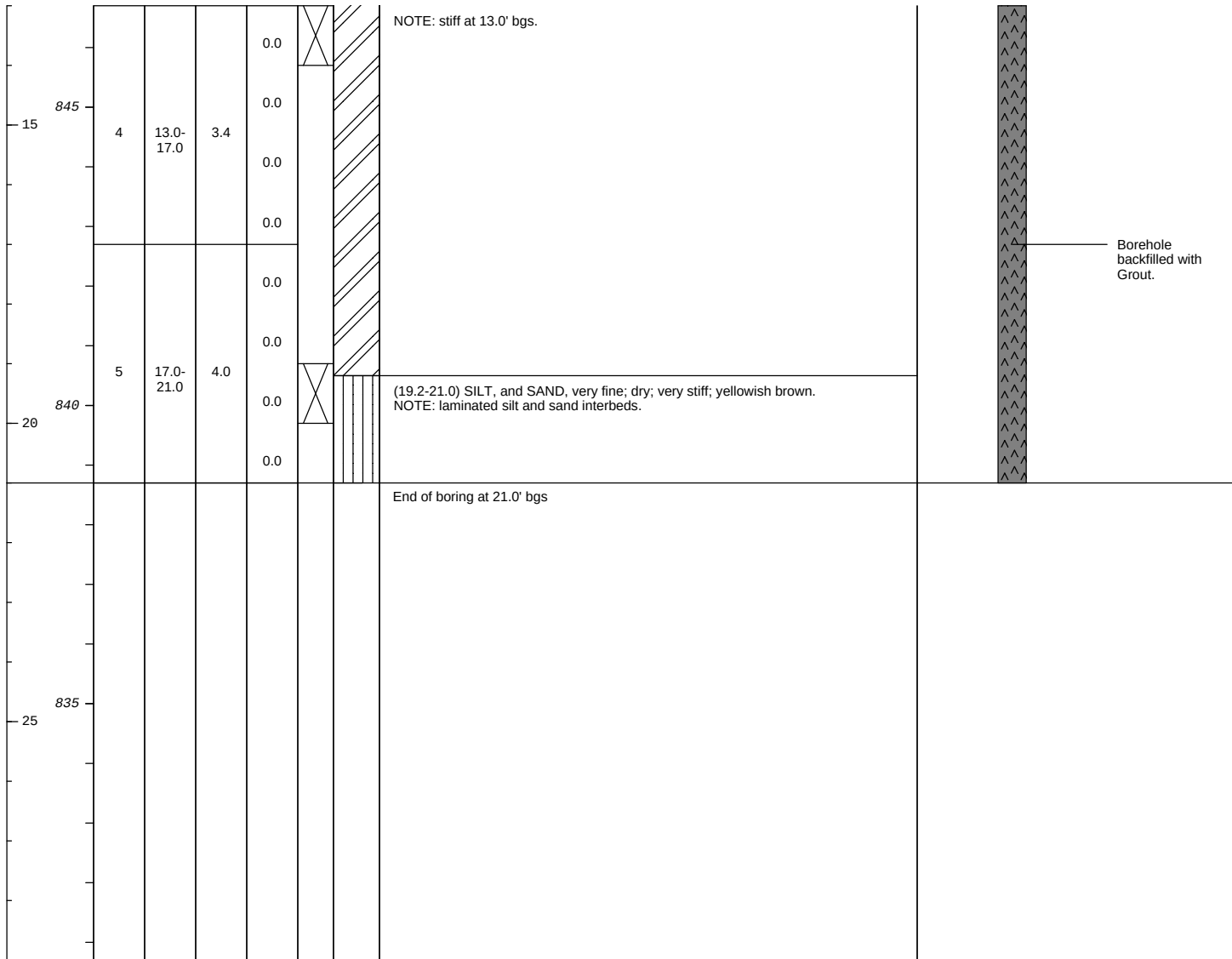
Date Start/Finish: 5/14/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453919.81 Easting: 13064983.67 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 859.70 Descriptions By: Colleen Barton	Well/Boring ID: SB-A17-DA145 Client: RACER Trust Location: Lansing, MI
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[illegible]

	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-5.0' bgs No odor or staining observed
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Date Start/Finish: 5/14/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453919.81 Easting: 13064983.67 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 859.70 Descriptions By: Colleen Barton	Well/Boring ID: SB-A17-DA145 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-5.0' bgs No odor or staining observed
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Date Start/Finish: 5/11/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453899.92 Easting: 13064954.91 Casing Elevation: Borehole Depth: 7.0' bgs Surface Elevation: 860.22 Descriptions By: Colleen Barton	Well/Boring ID: SB-A17-DC142 REFUSAL Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	860								
		1	0.0-5.0	4.5	NA			(0.0-1.1) CONCRETE	
					1.4			(1.1-7.0) SAND, fine to medium; trace coarse sand to small pebbles, subrounded; little silt; poorly sorted; wet, brown (10YR 4/3).	
					2.5				
					0.1				
					0.6				
5	855				0.0				
		2	5.0-7.0	2.0	0.0			NOTE: Refusal - CONCRETE at 7.0' bgs.	
					0.0			End of boring at 7.0' bgs due to refusal	
10	850								

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 1.1'-7.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/14/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453900.05 Easting: 13064962.10 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 860.22 Descriptions By: Colleen Barton	Well/Boring ID: SB-A17-DC143 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	860							(0.0-0.7) CONCRETE	
		1	0.0-5.0	5.0	NA			(0.7-2.0) SAND, medium to coarse, some granules to large pebbles, subangular to subround; trace clay; poorly sorted; wet; dark yellowish brown (10YR 4/6).	
					0.0				
					0.0			(2.0-9.7) CLAY, little silt, high plasticity; trace small to medium pebbles, subrounded; moist; medium stiff; yellowish brown (10YR 5/4).	
					0.0				
					0.0				
5	855								
		2	5.0-9.0	3.6				NOTE: very stiff from 6.7'-7.3' bgs.	
					0.0				
					0.0			NOTE: medium to coarse sand seam; wet at 8.5' bgs.	
					0.0				
					0.0			(9.7-10.0) SAND, medium to coarse, trace very coarse sand, subangular; well sorted; wet; yellowish brown.	
10	850							(10.0-10.8) CLAY, high plasticity; trace granules to small pebble, angular; dry; very stiff; yellowish brown.	
		3	9.0-13.0	3.3				(10.8-19.6) CLAY, high plasticity; trace granules to small pebbles, angular; dry to moist; medium stiff; dark grey.	
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater encountered from 0.7'-2.0' and at 8.5' bgs No odor or staining observed
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Date Start/Finish: 5/14/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453900.40 Easting: 13065008.21 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 859.48 Descriptions By: Colleen Barton	Well/Boring ID: SB-A17-DC147 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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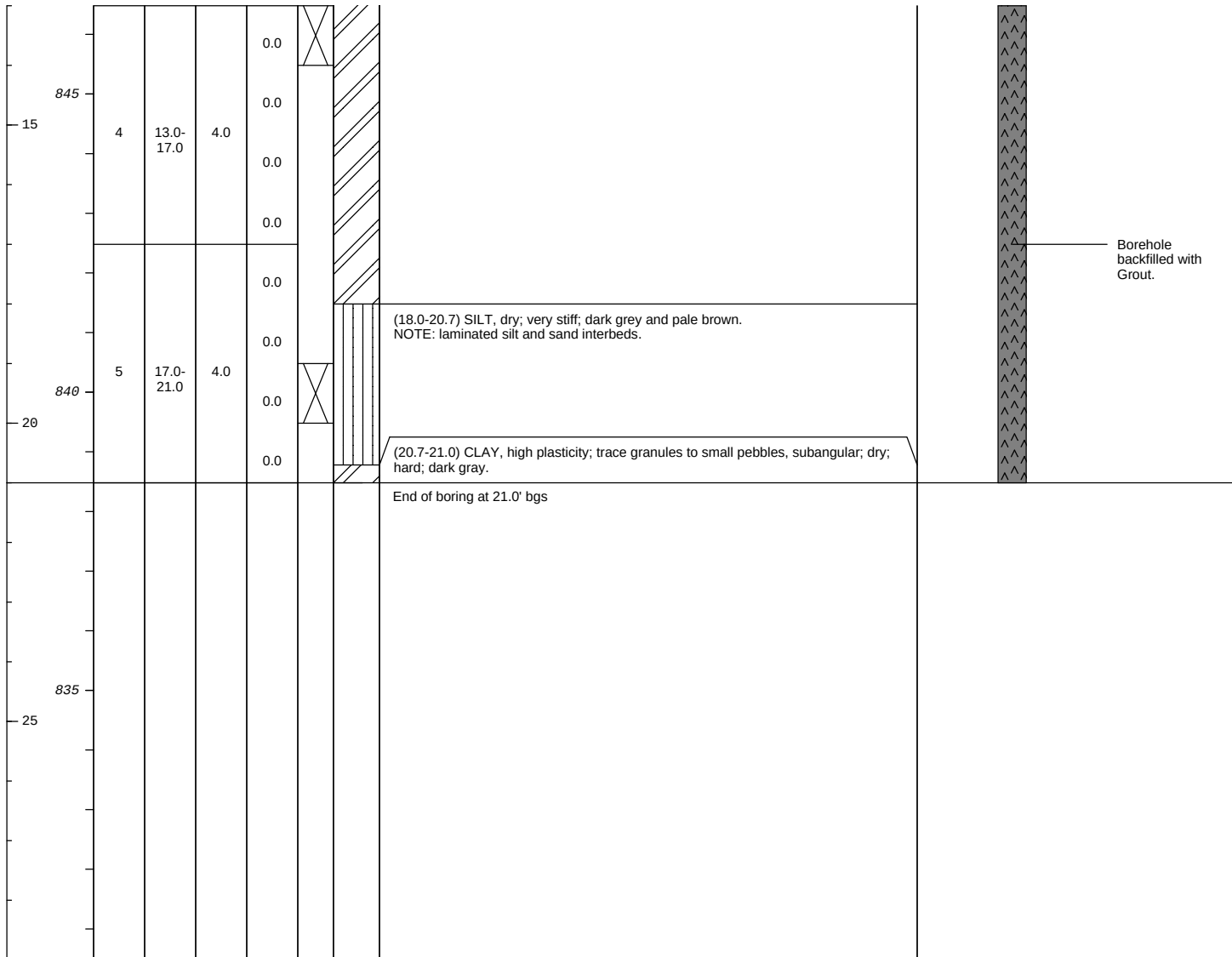
860									
0					NA			(0.0-1.0) CONCRETE	
		1	0.0-5.0	5.0	0.0			(1.0-10.9) SAND, fine to medium, trace granules to small pebbles, subangular; well sorted; moist; brown (10YR 4/3).	
					0.0				
					0.0				
855					0.0			NOTE: wet at 4.0' bgs.	
5					0.0				
		2	5.0-9.0	2.7	0.0			NOTE: color change to dark grayish brown (10YR 4/2) at 7.0' bgs; black staining at 7.5' bgs.	
					0.0				
					0.0				
850					NA				
10					0.0				
		3	9.0-13.0	2.4	0.0			(10.9-11.2) CONCRETE	
					0.0			(11.2-18.0) CLAY, high plasticity; trace granules to small pebbles, subangular; dry; very stiff; dark gray.	
					NA				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-11.2' bgs No odor observed
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Date Start/Finish: 5/14/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453900.40 Easting: 13065008.21 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 859.48 Descriptions By: Colleen Barton	Well/Boring ID: SB-A17-DC147 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-11.2' bgs No odor observed
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Date Start/Finish: 5/14/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453874.35 Easting: 13064947.37 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 860.27 Descriptions By: Colleen Barton	Well/Boring ID: SB-A17-DE141 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	860							(0.0-1.0) CONCRETE	
		1	0.0-5.0	5.0	NA			(1.0-3.0) SAND, fine to medium, trace small to large pebbles, subangular to subround; trace clay; poorly sorted; moist; brown (10YR 3/3).	
					0.1				
					0.2				
					0.1			(3.0-19.3) CLAY, medium plasticity; trace medium sand, trace granules to medium pebbles, subround; dry; stiff; grayish brown (10YR 5/2).	
5	855				0.0				
		2	5.0-9.0	3.7				NOTE: medium stiff; moist; granules and pebbles, subangular from 7.0'-8.0' bgs.	
					0.0				
					0.0				
					0.0				
10	850	3	9.0-13.0	4.0				NOTE: soft; color change to dark grey at 9.4' bgs.	
					0.0				
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater not encountered No odor or staining observed
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Date Start/Finish: 5/14/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453874.35 Easting: 13064947.37 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 860.27 Descriptions By: Colleen Barton	Well/Boring ID: SB-A17-DE141 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	845	4	13.0-17.0	4.0	0.0			NOTE: medium stiff at 13.0' bgs.	 Borehole backfilled with Grout.
					0.0			NOTE: stiff at 15.0' bgs.	
					0.0				
					0.0				
20	840	5	17.0-21.0	4.0	0.0				 Borehole backfilled with Grout.
					0.0			(19.3-21.0) SAND, very fine, trace very coarse sand, subangular; and SILT; well sorted; dry; light yellowish brown (10YR 6/4).	
					0.0				
					0.0			(21.0-25.0) CLAY, high plasticity; trace granule to small pebbles, angular; dry to moist; soft; dark gray.	
25	835	6	21.0-25.0	4.0	0.0				 Borehole backfilled with Grout.
					0.0			NOTE: very fine sand seam; dry at 24.3' bgs.	
					0.0				
					0.0			End of boring at 25.0' bgs	

	Remarks: BGS = Below ground surface Groundwater not encountered No odor or staining observed
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Date Start/Finish: 5/11/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453869.58 Easting: 13064956.34 Casing Elevation: NA Borehole Depth: 4.5' bgs Surface Elevation: 859.97 Descriptions By: Colleen Barton	Well/Boring ID: SB-A17-DF142 REFUSAL Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	860								
		1	0.0-4.5	4.5	NA			(0.0-1.0) CONCRETE	
					0.9			(1.0-4.5) SAND, fine to medium, trace small pebbles, subrounded; little clay to silt; poorly sorted; wet; dark yellowish brown (10YR 4/6).	
					2.0				
					NA			NOTE: Refusal - Concrete 4.5' bgs.	
-5	855							End of boring at 4.5' bgs due to refusal	
-10	850								

	Remarks: BGS = Below ground surface Groundwater detected between 1.0'-3.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/11/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453871.74 Easting: 13064995.40 Casing Elevation: NA Borehole Depth: 12.0' bgs Surface Elevation: 859.49 Descriptions By: Colleen Barton	Well/Boring ID: SB-A17-DF146 REFUSAL Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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860									
0									
		1	0.0-5.0	5.0	NA			(0.0-1.0) CONCRETE	
					0.6			(1.0-3.0) SAND, fine, trace coarse sand, subangular; well sorted; dry; brownish yellow (10YR 6/6).	
					0.4				
					0.8			(3.0-12.0) SAND, fine to medium, trace coarse sand to small pebbles, subangular to subrounded; well sorted; moist; dark yellowish brown (10YR 4/4).	
855					0.6				
5								NOTE: wet at 5.0' bgs.	
		2	5.0-9.0	3.3	0.0				
					0.0				
					0.0			NOTE: color change to grayish brown (10YR 5/2) at 7.7' bgs.	
					0.0			NOTE: black staining from 8.0'-8.1' bgs.	
850									
10									
		3	9.0-12.0	3.0	0.0				
					0.0			NOTE: black staining from 11.0'-12.0' bgs.	
					0.0				
								End of boring at 12.0' bgs due to refusal (CONCRETE)	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected at 5.0' bgs Staining detected between 8.0'-8.1' and 11.0'-12.0' bgs No Odor detected
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Date Start/Finish: 5/11/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453848.93 Easting: 13064985.79 Casing Elevation: NA Borehole Depth: 29.0' bgs Surface Elevation: 859.75 Descriptions By: Colleen Barton	Well/Boring ID: SB-A17-DH145 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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860									
0									
		1	0.0-5.0	5.0	NA			(0.0-0.8) CONCRETE	
					0.0			(0.8-2.0) SAND, fine to coarse, some small to large pebbles, subangular to subrounded; poorly ported; dry; brown.	
					0.0			(2.0-4.0) CLAY, high plasticity; trace granules to small pebbles, subrounded; dry to moist; medium stiff; dark yellowish brown (10YR 4/4).	
					0.0				
5	855				7.3			(4.0-5.0) SAND, very fine to fine, trace small pebbles, subrounded; some silt, little clay; poorly sorted; wet; yellowish brown (10YR 4/4). NOTE: Odor.	
		2	5.0-9.0	3.2	2.0			(5.0-9.2) CLAY, little silt, high plasticity; trace granules to small pebbles, little fine to medium sand, subangular to subround; stiff; moist; brown (10YR 3/3). NOTE: silt and sand seams are wet.	
					0.0				
					0.0				
					0.0				
10	850				0.0			(9.2-16.7) CLAY, high plasticity; trace granules, subangular; dry; medium stiff; dark gray (10YR 4/1).	
		3	9.0-13.0	3.6	0.0			NOTE: silt seam is wet at 10.9' bgs. NOTE: very fine sand seam; moist at 11.1' bgs.	
					0.0				
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-5.0', 5.0'-9.2' at seams, and at 10.9' bgs Odor detected between 4.0'-5.0' bgs No staining observed
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Date Start/Finish: 5/11/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453848.93 Easting: 13064985.79 Casing Elevation: NA Borehole Depth: 29.0' bgs Surface Elevation: 859.75 Descriptions By: Colleen Barton	Well/Boring ID: SB-A17-DH145 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	845	4	13.0-17.0	4.0	0.0			(16.7-17.0) SAND, very fine; and SILT; well sorted; dry; brownish yellow (10YR 6/6).	
					0.0			(17.0-19.5) CLAY, low plasticity; granules to very large pebbles, subangular; dry; hard; yellowish brown (10YR 5/4).	
					0.0			NOTE: very fine sand and silt layers; dry from 17.5'-17.7' bgs.	
					0.0			NOTE: very fine sand and silt layers; dry from 18.3'-18.7' bgs.	
20	840	5	17.0-21.0	4.0	0.0			(19.5-23.0) CLAY, little silt; trace granules to small pebbles, subangular; moist; soft; dark gray (10YR 4/1).	
					0.0			NOTE: very fine sand and silt layers; dry from 19.7'-19.8' bgs.	
					0.0				
		6	21.0-25.0	4.0	0.0			(23.0-26.4) SAND, very fine; and SILT; well sorted; dry; pale brown (10YR 6/3).	
					0.0			NOTE: Crossbedded; fluvial.	
25	835				0.0			NOTE: trace fine sand; no crossbedding from 25.0' to 26.4' bgs.	
					0.0				
		7	25.0-29.0	4.0	0.0			(26.4-29.0) SAND, very fine to fine, trace medium sand, subrounded to subangular; and SILT; poorly sorted; dry; light brownish gray (10YR 6/2).	
					0.0				
					0.0				
					0.0				
30	830							End of boring at 29.0' bgs	Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-5.0', 5.0'-9.2' at seams, and at 10.9' bgs Odor detected between 4.0'-5.0' bgs No staining observed
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Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A17-DU143

Project Name: RACER Lansing Plants

Date Drilled: 9/11/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0		(0.0 - 1.1) CONCRETE		-	NM	
2		SWG- (1.1 - 8.8) SAND, fine to coarse; some granules to medium pebbles, subrounded; poorly sorted; saturated; brown (10YR 4/3)	DU-143 1.0' - 5.0'	-	0.0	
4				-	0.0	
4				-	1.3	
6		NOTE: black discoloration at 3.0' to 8.8' bgs; strong odor		-	5.8	
6				-	2.9	
8				-	4.7	
8				-	8.7	
10		CH- (8.8 - 23.0) CLAY, medium plasticity; trace fine sand, trace granules to small pebbles, subangular; dry; stiff; darkgray (10YR 4/1)	DU-143 10.0' - 11.0'	-	108.7	
12		NOTE: moderate odor, transition to gray (10YR 5/1) at 13.0' bgs		-	108.2	
12				-	40.3	
14				-	30.6	
14				-	3.6	
16			DU-143 16.0' - 17.0'	-	0.0	
16				-	0.0	
18				-	0.0	
18				-	0.0	
20				-	0.0	
20				-	0.0	
22				-	0.0	
22				-	0.0	
24		SM- (23.0 - 30.0) SAND, fine; some silt, well sorted; moist; dense; brown (10YR 5/3)	DU-143 23.0' - 24.0'	-	0.0	
24				-	0.0	
26				-	0.0	
26				-	0.0	
28				-	0.0	
28			DU-143 29.0' - 30.0'	-	0.0	
30						
32						

Completion Notes: End Of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A17-DU147

Project Name: RACER Lansing Plants

Date Drilled: 9/11/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0		(0.0 - 0.8) CONCRETE	DU-147 0.0' - 4.0'	-	NM	
2		SW- (0.8 - 1.9) SAND, fine; little small to large pebbles, rounded; poorly sorted; saturated; gray (10YR 5/1)		-	0.0	
4		CL- (1.90 - 3.5) CLAY, medium plasticity; little fine sand, trace granules, subangular; dry; brown (10YR 4/3)		-	0.0	
6		CLS- (3.5 - 6.0) CLAY, medium plasticity; some fine; sand, moist; soft; dark yellowish brown (10YR 4/4)	DU-147 5.0' - 6.0'	-	0.0	
8		CH- (6.0 - 10.0) CLAY, high plasticity; trace fine; sand, moist; medium stiff; gray (10YR 5/1)		-	0.0	
10		CH- (10.0 - 21.5) CLAY, high plasticity; trace fine sand; trace granules to small pebbles, subangular; dry; stiff; gray (10YR 5/1)	DU-147 10.0' - 11.0'	-	0.3	
12		NOTE: 17.0' to 18.0' plasticity decreases to low; sand; increases to little		-	4.8	
14				-	3.0	
16				-	0.3	
18				-	0.0	
20				-	0.0	
22				-	0.0	
24				-	0.0	
26				-	0.0	
28		SP- (21.5 - 26.0) SAND, very fine to fine; well sorted; moist; dense; dark yellowish brown (10YR 4/6)	DU-147 17.0' - 18.0'	-	0.0	
30		SM- (26.0 - 30.0) SAND, very fine; some silt, well sorted; moist; dense; gray (10YR 5/1)	DU-147 25.0' - 26.0'	-	0.0	
32			DU-147 29.0' - 30.0'	-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	

Completion Notes: End Of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

[illegible]

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 9.19.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 453717.2015 Easting: 13065094.48 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 859.76 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A17-DU156 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	-15	4	14.0-18.0	4.0	0.0				
					0.0				
					0.0				
					0.0				
					0.0				
20	-20	5	18.0-20.0	2.0	0.0				
					0.0			(19.0-20.5') CLAY, high plasticity; and SAND, fine; dry; stiff; brown (10YR 4/3).	
					0.0				
					0.0				
					0.0				
25	-25	6	20.0-22.0	2.0	0.0			(20.5-21.5') SAND, very fine to fine; well sorted; moist; dark yellowish brown (10YR 4/6).	
					0.0				
					0.0			(21.5-25.0') CLAY, low plasticity; little fine sand, trace small to medium pebbles, angular; dry; stiff; gray (10YR 5/1).	
					0.0				
					0.0				
		7	22.0-26.0	3.6	0.0				
					0.0				
					0.0				
					0.0				
					0.0				
		8	26.0-30.0	4.0	0.0			(25.0-26.0') SAND, very fine to fine; well sorted; dry; pale brown (10YR 6/3).	
					0.0				
					0.0			(26.0-30.0') CLAY, high plasticity; little fine sand, trace small pebbles, angular; moist; soft; gray (10YR 5/1).	
					0.0				
					0.0				

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 9.19.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 453717.2015 Easting: 13065094.48 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 859.76 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A17-DU156 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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30	30				0.0			End of boring at 30.0' bgs.	
35	-35								
40	-40								
45	-45								

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A17-DY143

Project Name: RACER Lansing Plants

Date Drilled: 9/10/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT325

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0		(0.0 - 1.1) CONCRETE		-	NM	
2		SP- (1.1 - 5.0) SAND, fine; trace granules; sub angular; moist; brown (10YR 4/3)	DY-143 1.0' - 2.0'	-	0.1	
4		NOTE: saturated at 4.7'		-	3.0	
4				-	4.7	
6		- (5.0 - 8.0) NO RECOVERY	DY-143 4.5' - 8.5'	-	8.0	
6				-	NM	
8				-	NM	
8		SWG- (8.0 - 10.0) SAND, fine to medium; some granules to large pebbles, subangular; poorly sorted; saturated; dark gray (10YR 4/1)		-	NM	
10		NOTE: strong odor NOTE: poor recovery		-	8.7	
10				-	NM	
12				-	NM	
12		CH- (10.0 - 15.0) CLAY, medium plasticity; trace fine sand, trace granules to small pebbles, subangular; dry; medium stiff; dark gray (10YR 4/1)	DY-143 13.0' - 14.0'	-	1264	
14				-	3217	
14				-	NM	
16		CH- (15.0 - 25.0) CLAY, high plasticity; trace fine sand, trace granules to small pebbles, angular; dry; stiff; gray (10YR 5/1)		-	44.5	
16				-	15.3	
18				-	3.0	
18				-	3.0	
20			DY-143 19.0' - 2.0'	-	0.0	
20				-	0.2	
22				-	1.7	
22				-	0.0	
24				-	0.0	
24				-	0.0	
26		CLS- (25.0 - 27.0) CLAY, low plasticity; some fine sand, little silt, trace granules to small pebbles, angular; dry; stiff; brown (10YR4/3)	DY-143 26.0' - 27.0'	-	0.3	
26				-	0.2	
28		- (27.0 - 30.0) NO RECOVERY		-	0.0	
28				-	NM	
30				-	NM	
30				-	NM	
32						

Completion Notes: End Of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A17-EC135

Project Name: RACER Lansing Plants

Date Drilled: 9/11/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE		No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts PID (ppm)	
0		Ground Surface			
		(0.0 - 1.0) CONCRETE		- NM	
2		CLS- (1.00 - 4.5) CLAY, low plasticity; some fine sand, trace granules to small pebbles, subangular;dry; stiff; brown (10YR 4/3)	EC-135 1.0' - 2.0'	- 0.0	
4		NOTE: stiffness decreases to medium stiff at 2.5'		- 0.0	
				- 0.0	
6				- 0.0	
				- 0.0	
				- 0.0	
8		CLS- (4.5 - 7.0) CLAY, low plasticity; and sand, fine; trace granules to large pebbles subrounded; dry, medium stiff; brown (10YR 4/3)	EC-135 6.0' - 7.0'	- 0.0	
10		NOTE:black discoloration from 6.0' to 7.0' bgs	EC-135 7.0' - 11.0'	- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	
12		SM- (7.00 - 10.70) SAND, very fine; and silt; well sorted; moist; slow dilatancy; dark yellowish brown (10YR 4/4)		- 0.0	
14		NOTE: silt decreases to little by 9.5' bgs		- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	
16		CH- (10.70 - 22.0) CLAY, high plasticity; trace fine sand, trace granules to small pebbles, angular; dry; stiff; gray (10YR 5/1)	EC-135 16.0' - 17.0'	- 0.0	
18				- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	
22		SM- (22.0 - 26.0) SAND, very fine and silt, well sorted;very slow dilentancy; very dense; brown (10YR 4/3)	EC-135 22.0' - 23.0'	- 0.0	
24				- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	
26		SP- (26.0 - 30.0) SAND, fine; well sorted; moist; dense; brown (10YR 5/3)		- 0.0	
28				- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	
30			EC-135 29.0' - 30.0'		
32					

Completion Notes: End Of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 9.19.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 453637.2536 Easting: 13065094.74 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 859.91 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A17-EC156 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	0								
		1	0.0-5.0	4.0	0.0			(0.0-0.4') ASPHALT.	
					0.0			(0.4-1.0') CONCRETE.	
					0.0			(1.0-5.0') CLAY, low plasticity; some fine sand, trace small to medium pebbles, subangular; dry; medium stiff; dark grayish brown (10YR4/2).	
					0.0				
					0.0				
					0.0				
					0.0				
5	-5				0.0			(5.0- 6.3') CLAY, high plasticity; little fine sand, trace granules, subangular; moist; soft; borwn (10YR 4/3).	
		2	5.0-10.0	4.6	0.0			(6.3-7.5') SAND, fine; well sorted; saturated; dark yellowish brown (10YR 4/6).	
					0.0			(7.5-17.4') CLAY, high plasticity; trace fine sand, trace small pebbles, angular; dry; stiff; gray (10YR 5/1).	
					0.0				
					0.0				
					0.0				
10	-10	3	10.0-14.0	4.0	0.0				
					0.0				
					0.0				
					0.0				

	Remarks: bgs = below ground surface Groundwater encountered from 6.3'-7.5' bgs. No odor or staining observed.
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Date Start/Finish: 9.19.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 453637.2536 Easting: 13065094.74 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 859.91 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A17-EC156 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	-15	4	14.0-17.0	3.0	0.0				
					0.0				
					0.0				
					0.0				
20	-20	5	17.0-20.0	3.0	0.0			(17.4-23.0') SAND, very fine; well sorted; dry; pale brown (10YR 6/3).	
					0.0				
					0.0				
					0.0				
25	-25	6	20.0-24.0	3.9	0.0			(23.0-30.0') CLAY, high plasticity; little fine sand, trace granules to small pebbles, angular; dry; medium stiff; gray (10YR 5/1).	
					0.0				
					0.0				
					0.0				
		7	24.0-26.0	1.2	0.0				
					0.0				
					0.0				
					0.0				
		8	26.0-30.0	1.5	0.0				
					0.0				
					0.0				
					0.0				

	Remarks: bgs = below ground surface Groundwater encountered from 6.3'-7.5' bgs. No odor or staining observed.
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Date Start/Finish: 9.19.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 453637.2536 Easting: 13065094.74 Casing Elevation: NA Borehole Depth: 30.0' bgs Surface Elevation: 859.91 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A17-EC156 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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30	30				0.0			End of boring at 30.0' bgs.	
35	-35								
40	-40								
45	-45								

	Remarks: bgs = below ground surface Groundwater encountered from 6.3'-7.5' bgs. No odor or staining observed.
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Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A17-EE179

Project Name: RACER Lansing Plants

Date Drilled: 9/10/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE		No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts PID (ppm)	
0		Ground Surface			
		(0.0 - 0.5) CONCRETE			
		SW- (0.50 - 1.5) SAND, fine to medium; trace coarse sand, subangular; poorly sorted moist; darkbrown (10YR 5/3)	EE-179 0.5' - 1.5'	- 0.0	
2		CH- (1.5 - 6.5) CLAY, high plasticity ; trace fine sand, trace granules, sub angular;dry; medium stiff; brown (10YR 4/3)		- 0.0	
				- 0.0	
4				- 0.0	
				- 0.0	
6				- 0.0	
				- 0.0	
		CLS- (6.50 - 8.50) CLAY, medium plasticity; and sand,fine; trace granules, subangular; moist; soft; brown (10YR 5/3)	EE-179 7.5' - 8.5'	- 0.0	
8		CH- (8.50 - 10.0) CLAY, high plasticity; trace fine sand, trace granules to medium pebbles, angular; dry; stiff; brown (10YR 4/3) CH- (10.0 - 17.0) CLAY, high plasticity; little fine sand, trace granules, subangular; moist; soft; gray (10YR 5/1)		- 0.0	
				- 0.0	
10				- 0.0	
				- 0.0	
12				- 0.0	
				- 0.0	
14				- 0.0	
				- 0.0	
16				- 0.0	
				- 0.0	
18		CH- (17.9 - 20.0) CLAY, fine to medium; trace coarse sand, subangular;moist ;dark brown (10YR 5/3)		- 0.0	
				- 0.0	
20				- 0.0	

Completion Notes: End Of Boring at 20' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ.
The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A17-EH142

Project Name: RACER Lansing Plants

Date Drilled: 9/10/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0		(0.0 - 0.9) CONCRETE		-	NM	
2		CL- (0.9 - 7.5) CLAY, medium plasticity; little fine sand, trace granules to small pebbles, subangular; dry; stiff; brown (10YR 4/3)	EH-142 2.0' - 3.0'	-	0.0	
4				-	0.0	
6				-	0.0	
8		CLS- (7.5 - 9.0) CLAY, low plasticity; some fine sand some granules to medium pebbles, subrounded to subangular; moist; medium stiff; brown (10YR 4/3)	EH-142 8.0' - 12.0'	-	0.0	
10				-	0.0	
12		SW- (9.0 - 10.70) SAND, fine to medium; coarse sand to small pebbles, subrounded; poorly sorted; saturated; brown (10YR 5/3)		-	0.0	
14				-	0.0	
16		CH- (10.7 - 23.5) CLAY, medium plasticity; little sand, fine; trace granules to small pebbles, subangular; dry; stiff; brown (10YR 4/3)		-	0.0	
18		NOTE: color transition to gray (10YR 5/1) at 13.0' bgs	EH-142 17.0' - 18.0'	-	0.0	
20				-	0.0	
22				-	0.0	
24		SP- (23.5 - 30.0) , very fine; well sorted; moist; very dense; brown (10YR 5/3)	EH-142 24.0' - 25.0'	-	0.0	
26				-	0.0	
28				-	0.0	
30			EH-142 29.0' - 30.0'	-	0.0	
32						

Completion Notes: End of Boring at 30.0' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A18-BZ146

Project Name: RACER Lansing Plants

Date Drilled: 9/12/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT22

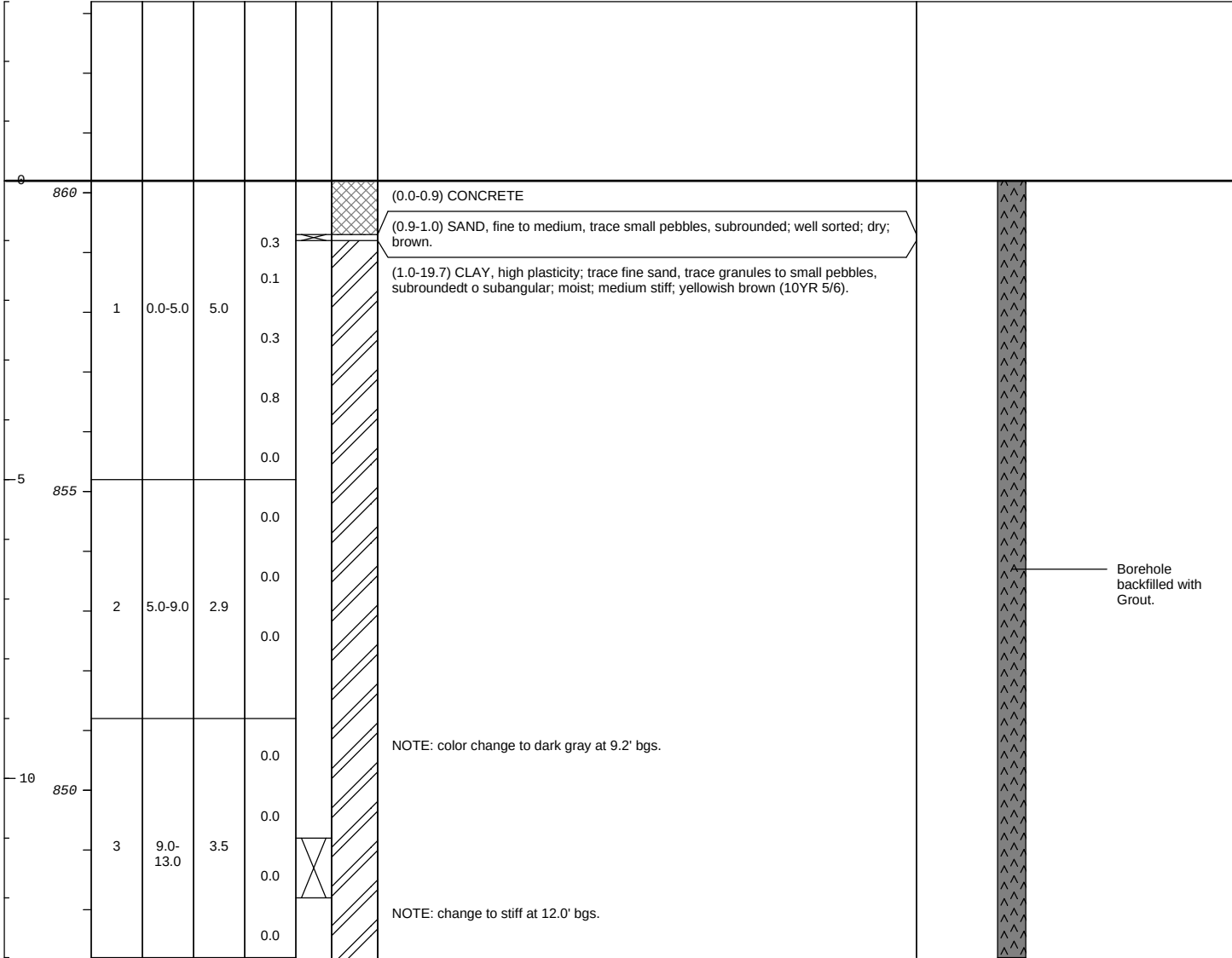
SUBSURFACE PROFILE			SAMPLE		No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts PID (ppm)	
0		Ground Surface			
		(0.0 - 0.9) CONCRETE		- NM	
2		SW- (0.9 - 1.2) SAND, fine; trace small to large pebble, poorly sorted; moist; dark brown (10YR 3/3)	BZ-146 1.0' - 2.0'	- 0.0	
4		CLS- (1.2 - 10.0) CLAY, low plasticity; some fine sand; trace granules to small pebbles; sub angular; dry; stiff, brown (10YR 4/3) NOTE: sand increases to "and" from 9.0' to 10.0' bgs		- 0.0	
6				- 0.0	
8				- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	
10		CH- (10.0 - 19.2) CLAY, high placticity; trace fine sand, trace granules to small pebbles, subangular to angular; dry; stiff ; dark gray (10YR 4/1)	BZ-146 9.0' - 10.0'	- 0.0	
12				- 0.0	
14				- 0.0	
16				- 0.0	
18				- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	
20		SP- (19.2 - 25.0) SAND, very fine to fine; well sorted; saturated; brown; (10YR 5/3)	BZ-146 20.0' - 24.0'	- 0.0	
22				- 0.0	
24				- 0.0	
				- 0.0	
				- 0.0	
26		CH- (25.0 - 29.5) CLAY, high plasticity; trace fine sand, trace granules to large pebble, subangular; dry stiff; brown; (10YR4/3) NOTE: transition to gray (10YR 5/1) at 26.5' bgs		- 0.0	
28				- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	
30		SP- (29.5 - 30.0) SAND, very fine; moist; dense;dark yellowish brown (10YR 4/6)	BZ-146 29.0' - 30.0'	- 0.0	
32					

Completion Notes: End of Boring at 30.0' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 5/15/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 454145.29 Easting: 13064996.21 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 860.20 Descriptions By: Colleen Barton	Well/Boring ID: SB-A18-CD146 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Date Start/Finish: 5/15/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 454145.29 Easting: 13064996.21 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 860.20 Descriptions By: Colleen Barton	Well/Boring ID: SB-A18-CD146 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	845	4	13.0-17.0	4.0	0.0				
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
20	840	5	17.0-21.0	3.8	0.0			(19.7-20.0) SAND, fine to medium; well sorted; dry; light yellowish brown (10YR 6/4).	
					0.0			(20.0-21.0) CLAY, low plasticity; little fine sand, trace granules, subrounded; very stiff; brown (10YR 5/3).	
					0.0			End of boring at 21.0' bgs	
25	835								

	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Date Start/Finish: 5/15/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 454098.35 Easting: 13064913.30 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 863.55 Descriptions By: Colleen Barton	Well/Boring ID: SB-A18-CI138 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
		1	0.0-5.0	5.0	NA			(0.0-1.2) CONCRETE	
					0.2			(1.2-12.5) SAND, fine to medium, trace granules, subrounded; well sorted; dry; brown (10YR 5/3).	
					0.1				
860					0.0				
5					0.3				
					0.0			NOTE: wet at 5.5' bgs.	
		2	5.0-9.0	0.5	NA				
					NA				
855					NA				
					0.0				
10					0.0				
		3	9.0-13.0	1.2	NA				
					NA				
					NA			(12.5-22.3) CLAY, high plasticity; trace small pebbles, subrounded; dry; very stiff;	

	Remarks: BGS = Below ground surface Groundwater detected at 5.5' and between 22.3'-23.5' and 23.5'-24.8' bgs No Odor or Staining detected
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Date Start/Finish: 5/15/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 454098.35 Easting: 13064913.30 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 863.55 Descriptions By: Colleen Barton	Well/Boring ID: SB-A18-CI138 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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850					0.0			dark gray.	
15		4	13.0-17.0	2.9	0.0				
					0.0				
					0.0				
					0.0				
845		5	17.0-21.0	3.8	0.0			NOTE: coarse to very coarse sand layer; dry from 18.3'-18.5' bgs.	
20					0.0				
					0.0				
					0.0				
					0.0				
840		6	21.0-25.0	4.0	0.0			(22.3-23.5) SILT, little clay, low plasticity; no dilatancy; medium stiff; wet; yellowish brown (10YR 5/6).	
					0.0			(23.5-24.8) SAND, very fine to fine; well sorted; wet; yellowish brown.	
					0.0			(24.8-25.0) CLAY, medium plasticity; trace granules to small pebbles, subangular; dry; hard; yellowish brown.	
25								End of boring at 25.0' bgs	
835									

	Remarks: BGS = Below ground surface Groundwater detected at 5.5' and between 22.3'-23.5' and 23.5'-24.8' bgs No Odor or Staining detected
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Boring Log .

Project No.: 01-4174-0

Boring No.: SB-A18-CJ153

Project Name: RACER Lansing Plants

Date Drilled: 9/12/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: A.Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
0		(0.0 - 2.0) CRUSHED/ GROUND CONCRETE		-	0.0	
2				-	0.0	
2		SP- (2.0 - 6.0) SAND, fine; well sorted; moist; yellowish brown (10YR 5/4)		-	0.0	
4				-	0.0	
4		NOTE: saturated at 4.6' trace small pebbles, subrounded from 5.0' to 6.0' bgs	CJ-153 4.0' - 8.0'	-	0.0	
6				-	0.0	
6		CL- (6.0 - 10.0) CLAY, medium plasticity; little fine sand, trace granules to small pebbles, subangular; moist; medium stiff; brown (10YR 4/3)		-	0.0	
8				-	0.0	
8			CJ-153 9.0' - 10.0'	-	0.0	
10		CH- (10.0 - 20.0) CLAY, high plasticity; trace fine sand; trace granules to small pebbles; angular; dry; stiff; gray; (10YR 5/1)		-	0.0	
12				-	0.0	
12				-	0.0	
14				-	0.0	
14				-	0.0	
16				-	0.0	
16				-	0.0	
18				-	0.0	
18				-	0.0	
20				-	0.0	
20		SP- (20.0 - 22.0) SAND, very fine to fine; well sorted; moist; yellowish brown (10YR 5/4)	CJ-153 21.0' - 22.0'	-	0.0	
22				-	0.0	
22		CH- (22.0 - 29.0) CLAY, high plasticity; little fine sand, trace granules to small pebbles, angular; moist; soft; grey (10YR 5/1)		-	0.0	
24				-	0.0	
24				-	0.0	
26				-	0.0	
26				-	0.0	
28				-	0.0	
28				-	0.0	
30		SP- (29.0 - 30.0) SAND, very fine; moist; very dense; yellowish brown (10YR 5/4)	CJ-153 29.0' - 30.0'	-	0.0	
32						

Completion Notes: End of Boring at 30.0' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Boring Log .

Project No.: 01-4172-0

Boring No.: SB-A18-CJ178

Project Name: RACER Lansing Plants

Date Drilled: 11/08/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				
2		CL- (0.0 - 1.5) CLAY low plasticity; little fine sand, moist; stiff; brown (10YR 4/3)	CJ-178 1.0' - 2.0'	-	0.0	
4		SP- (1.5 - 4.7) SAND fine; well sorted; moist; pale brown (10YR 6/3)		-	0.0	
6		CLS- (4.7 - 5.8) CLAY low plasticity; and fine sand, moist; soft; brown (10YR 4/3)	CJ-178 5.0' - 6.0'	-	0.0	
8		SP- (5.8 - 6.5) SAND fine; well sorted; saturated; brown (10YR 5/3)		-	0.0	
10		CLS- (6.5 - 12.0) CLAY low plasticity; and fine sand, trace small pebbles, subangular; moist; dark yellowish brown (10YR 4/4)		-	0.0	
12			CJ-178 11.0' - 12.0'	-	0.0	
14		CH- (12.0 - 20.0) CLAY high plasticity; trace fine sand, trace granules to small pebbles, subangular; dry; stiff; gray (10YR 5/1)		-	0.0	
16				-	0.0	
18				-	0.0	
20				-	0.0	
22		CL- (20.0 - 25.0) CLAY low plasticity, little fine sand, little granules to small pebbles, angular; dry; stiff; brown (10YR 4/3)	CJ-178 20.0' - 21.0'	-	0.0	
24				-	0.0	
26		SP- (25.0 - 29.2) SAND fine, trace small to medium pebbles, subangular; well sorted; dry; brown (10YR 5/3)		-	0.0	
28				-	0.0	
30		SM- (29.2 - 30.0) SAND fine, and silt, moist; dense; brown (10YR 4/3)	CJ-178 29.0' - 30.0'	-	0.0	

Completion Notes: End Of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

Date Start/Finish: 5/15/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 454021.16 Easting: 13064994.98 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 863.58 Descriptions By: Colleen Barton	Well/Boring ID: SB-A18-CQ146 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
		1	0.0-5.0	5.0	2.2	X		(0.0-0.7) CONCRETE	
					0.2			(0.7-9.0) CLAY, high plasticity; little medium to coarse sand, trace granules to small pebbles, subangular; dry; stiff; yellowish brown (10YR 5/4).	
860					2.8				
					1.5				
5					2.7				
		2	5.0-9.0	4.0	0.0				
					0.0				
					0.0				
855					0.0			NOTE: fine to medium sand seams; wet from 8.0'-8.5' bgs.	
10		3	9.0-13.0	0.4	NA			NOTE: Poor recovery; evidence of a very fine sand; wet from 9.0'-18.1' bgs..	
					NA				
					NA				
					NA				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 8.0'-8.5', 9.0'-13.0', and 23.7'-24.5' bgs No Odor or Staining detected
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Date Start/Finish: 5/15/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 454021.16 Easting: 13064994.98 Casing Elevation: NA Borehole Depth: 25.0' bgs Surface Elevation: 863.58 Descriptions By: Colleen Barton	Well/Boring ID: SB-A18-CQ146 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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850					NA				
15		4	13.0-17.0	0.0	NA				
					NA				
					NA				
					NA				
					0.0				
845		5	17.0-21.0	2.9	0.0			(18.1-23.7) CLAY, high plasticity; trace granules to small pebbles, subangular; dry; moist; medium stiff; dark gray.	
20					0.0				
					0.0				
					0.0				
840		6	21.0-25.0	4.0	0.0			(23.7-24.5) SAND, very fine; and SILT; well sorted; moist to wet; yellowish brown.	
					0.0			(24.5-25.0) CLAY, no plasticity; dry; hard; grayish brown (10YR 5/2).	
25								End of boring at 25.0' bgs	
835									

	Remarks: BGS = Below ground surface Groundwater detected between 8.0'-8.5', 9.0'-13.0', and 23.7'-24.5' bgs No Odor or Staining detected
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Date Start/Finish: 5/14/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453997.40 Easting: 13064976.17 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 861.22 Descriptions By: Colleen Barton	Well/Boring ID: SB-A18-CS144 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0								(0.0-0.5) CONCRETE	
860		1	0.0-5.0	5.0	NA			(0.5-21.0) CLAY, high plasticity; trace medium sand, trace granule to small pebble, subround; dry; medium stiff; brown (10YR 5/3).	
					0.0				
					0.0				
					0.0			NOTE: wet from 4.0'-5.0' bgs.	
5					0.0				
855		2	5.0-9.0	4.0	0.0			NOTE: fine to medium sand seams; wet from 6.0'-7.0' bgs.	
					0.0			NOTE: little granules from 6.5'-9.0' bgs.	
					0.0				
					0.0				
					NA				
10					NA			NOTE: color change to dark grey; soft at 9.5' bgs.	
850		3	9.0-13.0	4.0	0.0				
					0.0				
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-5.0' and 6.0'-7.0' bgs No odor or staining observed
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Date Start/Finish: 5/14/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453997.40 Easting: 13064976.17 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 861.22 Descriptions By: Colleen Barton	Well/Boring ID: SB-A18-CS144 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	845	4	13.0-17.0	2.8	0.0 0.0 0.0 NA			NOTE: large pebbles at 16.3' bgs.	
20		5	17.0-21.0	4.0	0.0 0.0 0.0 0.0			NOTE: color change to dark greyish brown; increase in stiffness; dry at 19.5' bgs. NOTE: hard from 20.0'-21.0' bgs.	Borehole backfilled with Grout.
25	835								

	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-5.0' and 6.0'-7.0' bgs No odor or staining observed
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Date Start/Finish: 5/14/12-5/15/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453996.72 Easting: 13065018.12 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 860.01 Descriptions By: Colleen Barton	Well/Boring ID: SB-A18-CS148 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	860								
		1	0.0-5.0	5.0	NA			(0.0-0.9) CONCRETE	
					0.0			(0.9-1.0) SAND, fine to coarse, some granules to small pebbles, trace large pebbles, subrounded; poorly sorted; wet; brown.	
					0.0			(1.0-10.5) CLAY, high plasticity; trace granules, subangular; dry; stiff; dark yellowish brown.	
					0.0				
					0.0				
5	855				0.0			NOTE: trace sand, fine at 5.0' bgs.	
		2	5.0-9.0	0.9	NA				
					NA				
					NA				
10	850				0.0				
		3	9.0-13.0	4.0	0.0			(10.5-20.7) CLAY, high plasticity; trace small to medium pebbles, trace coarse sand, subangular; dry; stiff; dark gray.	
					0.0				
					0.0				
					0.0				

	Remarks: BGS = Below ground surface Groundwater detected between 0.95'-1.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/14/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453974.98 Easting: 13064996.02 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 859.89 Descriptions By: Colleen Barton	Well/Boring ID: SB-A18-CU146 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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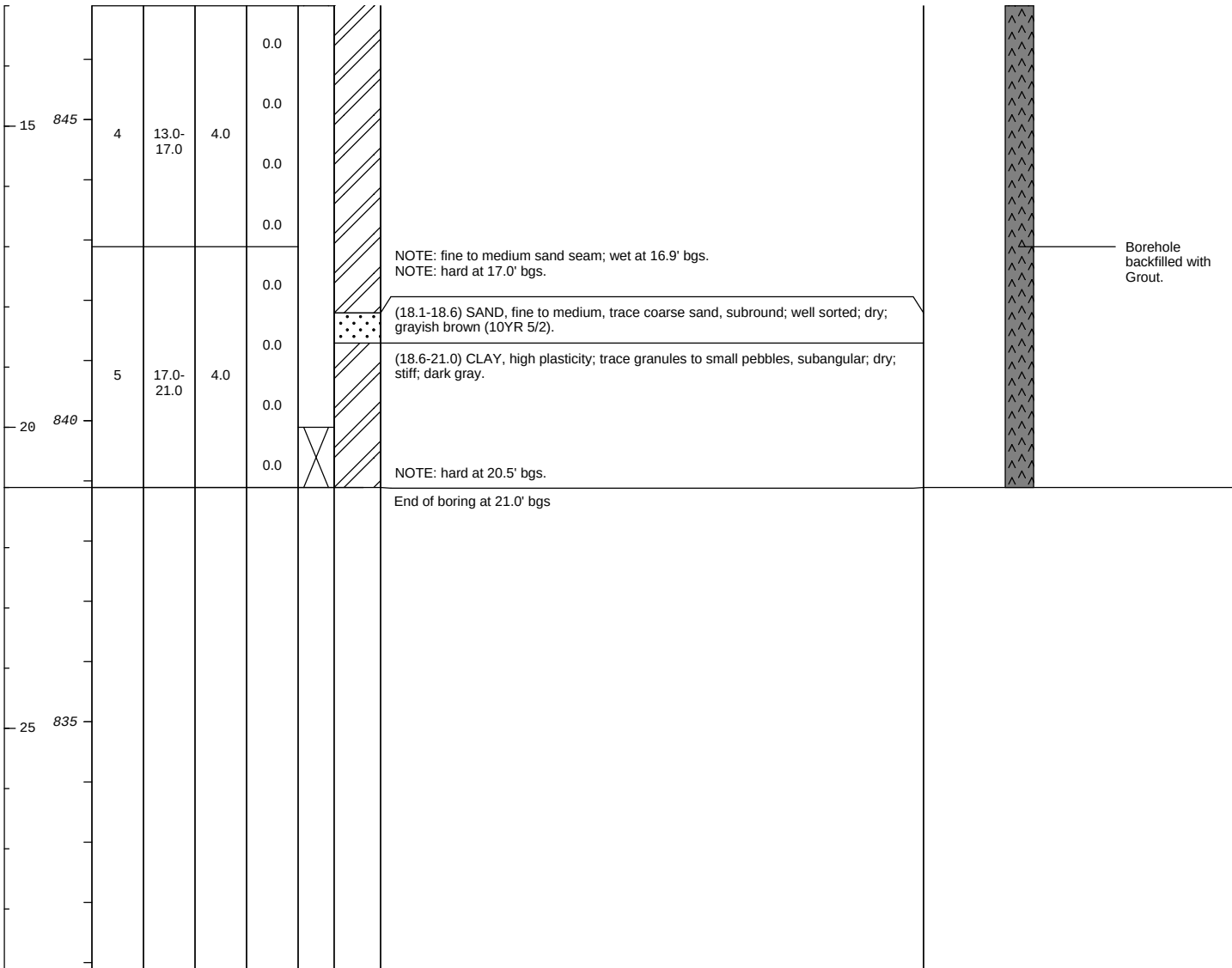
0	860								
		1	0.0-5.0	5.0	NA			(0.0-1.0) CONCRETE	
					0.0			(1.0-1.5) SAND, medium to very coarse, trace small pebbles, subround to subangular; poorly sorted; wet; brown.	
					0.0			(1.5-18.1) CLAY, high plasticity; trace coarse sand to granules, subangular; trace silt; dry to moist; medium stiff; yellowish brown (10YR 5/6).	
					0.0				
					0.0				
5	855				0.0			NOTE: soft from 5.0'-7.0' bgs.	
		2	5.0-9.0	2.9	0.0				
					0.0				
					0.0			NOTE: fine sand seam; wet at 7.8' bgs.	
					NA				
					0.0			NOTE: color change to dark gray; trace small pebbles, subangular; dry at 9.0' bgs.	
10	850				0.0				
		3	9.0-13.0	2.7	0.0				
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 0.95'-1.5' bgs No odor or staining observed
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Date Start/Finish: 5/14/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453974.98 Easting: 13064996.02 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 859.89 Descriptions By: Colleen Barton	Well/Boring ID: SB-A18-CU146 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column		
								Stratigraphic Description	Well/Boring Construction



	Remarks: BGS = Below ground surface Groundwater detected between 0.95'-1.5' bgs No odor or staining observed
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Date Start/Finish: 6/6/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452816.13 Easting: 13065038.30 Casing Elevation: NA Borehole Depth: 15.0' bgs Surface Elevation: 863.53 Descriptions By: M. Hicks	Well/Boring ID: SB-A19-HG150 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
		1	0.0-3.0	3.0	0.0			(0.0-1.0) CONCRETE	
					0.0			(1.0-3.0) SAND, very fine to fine, little granules to small pebbles; little silt; poorly sorted; moist; brown (10YR 4/3). NOTE: FILL.	
860		2	3.0-5.5'					(3.0-5.5) CONCRETE	
5		3	5.5-6.5					(5.5-11.05) SAND, very fine to medium, little granules to medium pebbles; little silt; poorly sorted; moist; brown (10YR 4/3). NOTE: increasing sand at 6.55' bgs.	
		4	6.5-10.0	3.5					
855									
10								(11.05-13.1) CLAY, some silt, high plasticity; little very fine to fine sand; no dilatancy; moist; soft; brown (10YR 4/3) mottled with dark grayish brown (10YR 4/2).	
		5	10.0-15.0	5.0				(13.1-13.7) SAND, fine to coarse, little granules to small pebbles, subangular to subround; poorly sorted; moist; dark grayish brown (10YR 4/2). (13.7-15.0) CLAY, some silt, high plasticity; little very fine sand, trace granules to	
850									

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater not encountered No odor or staining observed
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Date Start/Finish: 6/6/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452816.13 Easting: 13065038.30 Casing Elevation: NA Borehole Depth: 15.0' bgs Surface Elevation: 863.53 Descriptions By: M. Hicks	Well/Boring ID: SB-A19-HG150 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15								small pebbles, subangular to subround; moist; medium stiff; dark grayish brown (10YR 4/2). NOTE: TILL.	
								End of boring at 15.0' bgs.	
845									
20									
840									
25									
835									
30									

	Remarks: BGS = Below ground surface Groundwater not encountered No odor or staining observed
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Date Start/Finish: 9.18.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 452787.3328 Easting: 13064974.96 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 863.51 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A19-HJ144 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	0								
		1	0.0-5.0	2.5	NA			(0.0-2.5') CONCRETE.	
					NA				
					0.0			(2.5-5.0') SAND, fine to medium, little small pebbles, angular; poorly sorted; moist; brown (10YR 4/3).	
					0.0				
					0.0				
5	-5				0.0			(5.0-7.5') CLAY, low plasticity; little fine sand, trace granules to small pebbles, angular; dry; medium stiff; brown (10YR 4/3).	
		2	5.0-10.0	4.9	0.0				
					0.0			(7.5-16.9') CLAY, high plasticity; trace fine sand, trace small pebbles, subangular to angular; dry; stiff; gray (10YR 5/1).	
					0.0			NOTE: Discoloration from 7.5-8.0' bgs.	
					0.0				
10	-10				0.0				
		3	10.0-14.0	4.0	0.0				
					0.0				
					0.0				
					0.0				

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 9.18.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 452727.4369 Easting: 13065038.68 Casing Elevation: NA Borehole Depth: 14.0' bgs Surface Elevation: 863.52 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A19-HP150 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	0								
					NA			(0.0-2.5') CONCRETE.	
					NA				
		1	0.0-5.0	2.5	0.0			(2.5-14.0') SILT, little clay, slow dilatancy; little very fine sand; moist to wet; gray (10YR 5/1).	
					0.0				
-5	-5				0.0				
		2	5.0-10.0	4.7	0.0				
					0.0				
					0.0				
					0.0				
					0.0				
-10	-10				0.0				
		3	10.0-14.0	3.5	0.0				
					0.0				
					0.0				

	Remarks: bgs = below ground surface Groundwater encountered from 2.0'-14.0' bgs. No odor or staining observed.
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Date Start/Finish: 9.18.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 452727.4369 Easting: 13065038.68 Casing Elevation: NA Borehole Depth: 14.0' bgs Surface Elevation: 863.52 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A19-HP150 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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					0.0	X			
15	-15							End of boring at 14.0' bgs due to refusal - 3 attempts were made.	
20	-20								
25	-25								

	Remarks: bgs = below ground surface Groundwater encountered from 2.0'-14.0' bgs. No odor or staining observed.
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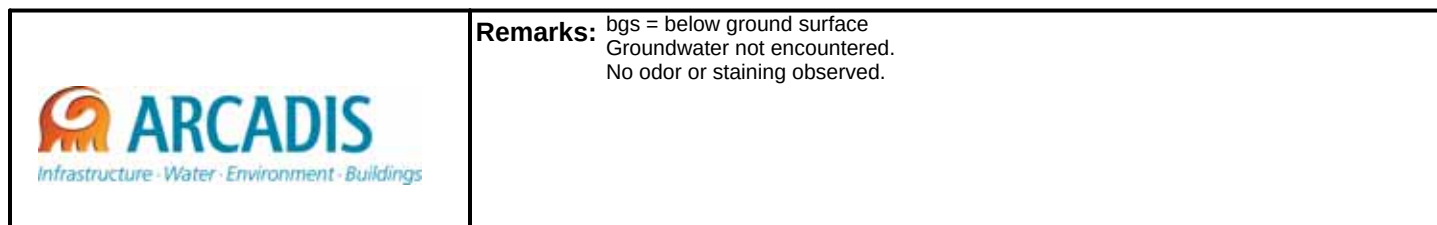
Date Start/Finish: 9.18.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 452717.3208 Easting: 13065034.66 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 863.57 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A19-HQ150 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	0								
		1	0.0-5.0	3.0	NA			(0.0-2.0') CONCRETE.	
					NA				
					0.0			(2.0-10.5') SAND, fine, trace small pebbles, subrounded; well sorted; moist; brown (10YR 4/3).	
					0.0				
					0.0				
-5	-5				0.0				
		2	5.0-10.0	3.7	0.0				
					0.0				
					0.0				
					0.0				
					0.0				
-10	-10				0.0				
					0.0			(10.5-15.0') CLAY, high plasticity; trace fine sand, trace granules to small pebbles, subangular; dry; medium stiff; gray (10YR 5/1).	
					0.0				
		3	10.0-15.0	4.5	0.0				
					0.0				

	Remarks: bgs = below ground surface Groundwater encountered from 15.0'-20.0' bgs. No odor or staining observed.
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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Date Start/Finish: 9.19.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 453859.0797 Easting: 13063779.33 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 862.82 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A20-EH24 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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					0.0				
15	-15				0.0			(14.0-19.0') CLAY, high plasticity; trace fine sand, trace granules to small pebbles, angular; dry; stiff; brown (10YR 4/3).	
		4	15.0-20.0	5.0	0.0				
					0.0				
					0.0				
					0.0				
					0.0				
20	-20				0.0			(19.0-20.0') SAND, fine; well sorted; moist; dark yellowish brown (10YR 4/6).	
								End of boring at 20.0' bgs.	
25	-25								

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 9.19.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 453548.4092 Easting: 13063717.19 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 856.83 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A20-EL18 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	0								
		1	0.0-5.0	5.0	0.0			(0.0-0.5') TOPSOIL.	
					0.0			(0.5-5.0') CLAY, low plasticity; some fine sand, trace granules to small granules, subrounded; dry; stiff; brown (10YR 4/3).	
					0.0				
					0.0				
					0.0				
					0.0				
5	-5	2	5.0-10.0	3.0	0.0			(5.0-20.0') CLAY, medium plasticity; some fine sand, trace granules to small pebbles, angular; moist; soft; dark gray (10YR 4/1).	
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
10	-10	3	10.0-15.0	3.0	0.0				
					0.0				
					0.0				
					0.0				

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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[illegible]

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 9.19.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 453547.5411 Easting: 13063833.94 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 860.79 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A20-EL30 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	0								
		1	0.0-5.0	5.0	0.0			(0.0-0.5') TOPSOIL.	
					0.0			(0.5-7.5') CLAY, low plasticity; some fine sand, trace granules to small pebbles, subrounded; moist; stiff; brown (10YR 4/3).	
					0.0				
					0.0				
					0.0				
					0.0				
5	-5	2	5.0-10.0	3.9	0.0				
					0.0				
					0.0			(7.5-10.7') SAND, fine to very fine; little silt; moist; dark yellowish brown (10YR 4/3).	
					0.0				
					0.0				
					0.0				
10	-10	3	10.0-14.0	3.5	0.0			(10.7-17.0') CLAY, high plasticity; trace fine sand, trace granules, subangular; dry; stiff; brown (10YR 4/3).	
					0.0				
					0.0				
					0.0				

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 9.19.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 453547.5411 Easting: 13063833.94 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 860.79 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A20-EL30 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	-15	4	14.0-18.0	3.5	0.0				
					0.0				
					0.0				
					0.0				
					0.0				
20	-20	5	18.0-20.0	1.4	0.0			(17.0-19.5') SAND, very fine; well sorted; moist; brown (10YR 5/3).	
					0.0				
					0.0				
					0.0				
					0.0			(19.5-20.0') CLAY, low plasticity; some fine sand; moist; medium stiff; brown (10YR 4/3).	
25	-25							End of boring at 20.0' bgs.	

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 6/7/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453541.80 Easting: 13063788.74 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 860.72 Descriptions By: M. Meckley	Well/Boring ID: SB-A20-EM25 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	860	1	0.0-5.0	5.0	0.5			(0.0-1.0) SILT, trace clay, medium to high plasticity; trace very fine sand; rapid dilatancy; dry; soft; dark grayish brown (10YR 2/2).	
					0.8			(1.0-5.0) SAND, very fine, little granules, subangular to subround; little silt, trace clay; poorly sorted; dry; dark yellowish brown (10YR 4/6).	
					0.9				
					0.3				
					0.0				
5	855	2	5.0-9.0	2.3	0.0			(5.0-8.2) CLAY, little silt, high plasticity; trace very fine sand; rapid dilatancy; dry; soft; dark grayish brown (10YR 4/2). NOTE: some silt; dark yellowish brown (10YR 4/4) at 6.0' bgs. NOTE: fine sand seam; moist at 7.0' bgs.	
					0.0				
					0.0				
					0.0			(8.2-8.8) SAND, fine to medium; well sorted; wet; dark yellowish brown (10YR 4/6).	
					0.0			(8.8-10.5) CLAY, little silt, low plasticity; trace fine sand, trace granules, subangular to subround; no dilatancy; dry; stiff; dark yellowish brown (10YR 3/6). NOTE: some silt; high plasticity; rapid dilatancy; little very fine sand; soft at 9.0' bgs.	
10	850	3	9.0-13.0	2.0	0.0			(10.5-12.5) SILT, some clay, high plasticity; little very fine sand; rapid dilatancy; dry; soft; dark yellowish brown (10YR 4/6). NOTE: very fine sand seam at 11.0' bgs. NOTE: medium to coarse sand seam at 11.1' bgs.	
					0.0			(12.5-13.2) SAND, very fine; little silt; well sorted; moist; dark yellowish brown (10YR 4/6).	
					0.0			(13.2-14.0) CLAY, trace silt, low plasticity; trace very fine sand; no dilatancy; dry; stiff; dark yellowish brown (10YR 4/6).	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater encountered from 14-15.2' bgs No Odor or Staining detected
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Date Start/Finish: 6/7/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453541.80 Easting: 13063788.74 Casing Elevation: NA Borehole Depth: 21.0' bgs Surface Elevation: 860.72 Descriptions By: M. Meckley	Well/Boring ID: SB-A20-EM25 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	845	4	13.0-17.0	4.2	0.0		(14.0-15.2) SAND, very fine; some clay to silt; well sorted; wet; brown (10YR 4/3).	
					0.0		(15.2-17.0) CLAY, little silt, medium plasticity; trace very fine sand, trace granules, subangular; slow dilatancy; dry; very stiff; dark yellowish brown (10YR 4/6).	
					0.0		(17.0-19.2) SAND, very fine; trace silt; well sorted; wet; yellowish brown (10YR 5/6).	
20	840	5	17.0-21.0	3.5	0.0		(19.2-21.0) SILT, little clay, high plasticity; rapid dilatancy; wet to moist; yellowish brown (10YR 5/6). NOTE: some clay; dry; brown (10YR 4/3) at 19.8' bgs.	
					0.0		End of boring 21.0' bgs	
25	835							
30								

	Remarks: BGS = Below ground surface Groundwater encountered from 14-15.2' bgs No Odor or Staining detected
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Date Start/Finish: 6/7/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453529.87 Easting: 13063782.39 Casing Elevation: NA Borehole Depth: 9.0' bgs Surface Elevation: 860.85 Descriptions By: M. Meckley	Well/Boring ID: SB-A20-EN25 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860		1	0.0-5.0	5.0	NA			(0.0-1.0) CONCRETE	
					0.7			(1.0-2.0) SAND, very fine to fine, trace medium sand; little clay; poorly sorted; wet; dark yellowish brown (10YR 4/4).	
					0.4			(2.0-6.0) SAND, very fine, trace fine sand; trace clay; well sorted; moist; yellowish brown (10YR 5/6).	
					0.5			NOTE: trace silt; little clay; trace small pebbles, subround; poorly sorted at 4.0' bgs.	
5					0.0			NOTE: silt lens at 5.1' bgs.	
855		2	5.0-9.0	3.0	0.0			(6.0-7.1) CLAY, little silt, medium to low plasticity; trace very fine sand; no dilatancy; dry; stiff; dark yellowish brown (10YR 4/4).	
					0.0			(7.1-9.0) CLAY, some silt, high plasticity; trace very fine to coarse sand, subangular; rapid dilatancy; moist; soft; dark grayish brown (10YR 4/2).	
					0.0			NOTE: trace granules, subangular to subround at 7.5' bgs.	
10									
850									

	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected Refusal encountered at 9.0' bgs
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Date Start/Finish: 6/7/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453496.49 Easting: 13063734.62 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.13 Descriptions By: M. Meckley	Well/Boring ID: SB-A20-EQ20 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0								(0.0-1.0) CONCRETE	
860		1	0.0-5.0	5.0	NA	X		(1.0-9.0) CLAY, little silt, high plasticity; little fine sand, trace granule; rapid dilatancy; moist; medium stiff; dark brown (10YR 3/3).	
					1.7	X		NOTE: some silt; trace granule, subrounded to subangular; dry; dark yellowish brown (10YR, 4/4) at 3.0' bgs.	
					1.2				
					3.4				
5					2.0				
855		2	5.0-9.0	4.0	0.0	X		NOTE: little granule, small pebble, subrounded to subangular; stiff at 5.5' bgs.	
					0.0	X		NOTE: moist from 6.0'-7.0' bgs.	
					0.0			NOTE: some very fine sand; medium stiff at 7.0' bgs.	
					0.0			NOTE: little very fine sand; stiff at 8.5' bgs.	
					0.0			NOTE: small lens soft silt and clay; dark brown (10YR, 3/3) at 8.7' bgs.	
10					0.0			(9.0-13.0) CLAY, some silt, low to medium plasticity; little very fine sand, trace granule, subrounded to subangular; no dilatancy; dry; very stiff; dark yellowish brown (10YR 4/6).	
850		3	9.0-13.0	3.9	NA			NOTE: stiff at 11.0' bgs.	
					NA			NOTE: some very fine sand at 11.5' bgs.	
					NA				
15					NA			(13.0-15.0) CLAY, some silt, high plasticity; little very fine sand; rapid dilatancy; dry; medium stiff; dark yellowish brown (10YR 4/6).	
845		4	13.0-17.0	NA	NA			(15.0-17.0) SILT, little clay, high plasticity; little very fine sand; slow dilatancy; dry; medium stiff; dark yellowish brown (10YR 3/4).	
					NA	X			
								End of boring at 17.0' bgs.	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected
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Date Start/Finish: 6/7/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453496.33 Easting: 13063825.75 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.08 Descriptions By: M. Meckley	Well/Boring ID: SB-A20-EQ29 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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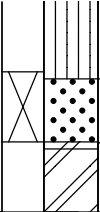
0									
860		1	0.0-5.0	5.0	NA			(0.0-1.0) CONCRETE	
					0.2			(1.0-5.0) SAND, medium to coarse, little fine sand, little small to medium pebble, subrounded to subangular; poorly sorted; moist; brown (10YR 4/3)	
					0.1			NOTE: trace small pebble; little clay at 2.0' bgs.	
					0.3				
					0.0			NOTE: little silt at 4.0' bgs.	
5		2	5.0-9.0	3.2	0.0			(5.0-9.5) CLAY, little silt, low plasticity; trace very fine sand, trace granule to small pebble, subrounded to subangular; no dilatancy; dry; stiff to very stiff; dark yellowish brown (10YR 4/6).	
					0.0			NOTE: slight mottling with gray (10YR, 5/1) from 6.5'-8.0' bgs..	
					0.0			NOTE: high plasticity, rapid dilatancy; medium stiff to soft at 7.8' bgs.	
					0.1			NOTE: very dark grayish brown (10YR, 3/2); organics at 8.4' bgs.	
10					0.0			(9.50-10.6) CLAY, some silt, low plasticity; little very fine sand, trace granule, subrounded to subangular; slow dilatancy; very stiff.	
		3	9.0-13.0	3.2	0.0			(10.6-11.8) SILT, trace clay, medium plasticity; trace very fine sand, trace granule, subrounded; rapid dilatancy; dry; soft to medium stiff; dark brown (10YR 3/3).	
					0.0			(11.8-13) SAND, very fine, trace coarse sand, trace small to medium pebble, subrounded to subangular; little silt; poorly sorted; dry; yellowish brown (10YR 5/4).	
					0.0			(13-15.3) SILT, little clay, medium to low plasticity; trace fine sand, trace granule, subrounded; rapid dilatancy; dry; stiff; yellowish brown (10YR 5/4).	
					NA				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater observed from 15.3 - 16.1' bgs No Odor or Staining detected
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Date Start/Finish: 6/7/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453496.33 Easting: 13063825.75 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.08 Descriptions By: M. Meckley	Well/Boring ID: SB-A20-EQ29 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	845	4	13.0-17.0	NA	NA	NA		(15.3-16.1) SAND, very fine, trace granule, subrounded to subangular; little silt; poorly sorted; moist, yellowish brown (10YR 5/4). NOTE: medium to very coarse sand seam, trace small pebble, subrounded to subangular at 15.6' bgs. (16.1-17) CLAY, trace silt, high plasticity; trace very fine sand; no dilatancy; dry; medium stiff; yellowish brown (10YR 4/4). NOTE: medium sand seam at 16.7' bgs. NOTE: little silt; low plasticity; stiff to very stiff at 16.8' bgs. End of boring at 17.0' bgs.	
20	840								
25	835								
30									

	Remarks: BGS = Below ground surface Groundwater observed from 15.3 - 16.1' bgs No Odor or Staining detected
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Date Start/Finish: 6/7/2012 Drilling Company: Stock Driller's Name: Chris Baker Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453496.33 Easting: 13063825.75 Casing Elevation: NA Borehole Depth: 17.0' bgs Surface Elevation: 861.08 Descriptions By: M. Meckley	Well/Boring ID: SB-A20-EQ29 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
30									

	Remarks: BGS = Below ground surface Groundwater observed from 15.3 - 16.1' bgs No Odor or Staining detected
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Date Start/Finish: 6/6/2012 - 6/7/2012 Drilling Company: Stock Driller's Name: Rich Stock and Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453000.10 Easting: 13063823.33 Casing Elevation: NA Borehole Depth: 15.0' bgs Surface Elevation: 843.42 Descriptions By: A. Villhaues	Well/Boring ID: SB-A21-GO29 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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845									
0		1	0.0-1.2		NA			(0.0-1.2) CONCRETE	
		2	1.2-2.0		0.0	X		(1.2-8.0) SAND, fine, trace large pebble, subrounded; well sorted; brown (10YR 4/3). NOTE: FILL.	
				3.0					
840		3	2.0-5.0		0.0				
					0.0				
5					0.0				
		4	5.0-10.0		0.0	X			
				3.2					
835					0.0			(8.0-15.0) SAND, fine; well sorted; dry; yellowish brown (10YR 5/4).	
					0.0				
10					0.0				
		5	10.0-15.0		0.0				
				2.2					
830					0.0				
					0.0				
15					NA	X			
								End of boring at 15.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected
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Date Start/Finish: 6/6/2012 - 6/7/2012 Drilling Company: Stock Driller's Name: Rich Stock and Jake Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 452980.20 Easting: 13063802.21 Casing Elevation: NA Borehole Depth: 15.0' bgs Surface Elevation: 843.48 Descriptions By: A. Villhauer	Well/Boring ID: SB-A21-GQ27 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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845									
0									
					NA			(0-1.2) CONCRETE	
					0.0	X		(1.2-4.5) SAND, fine; well sorted; moist; brown (10YR 4/3).	
					0.0				
840		1	1.0-5.0	NA	0.0				
					0.0				
					0.0			(4.5-6.0) SAND, fine; some silt; dark gray (10YR 4/1).	
5		2	5.0-6.0	4.0	0.0				
					0.9			(6.0-8.1) SAND, fine; well sorted; moist; brown (10YR 4/3).	
					0.0	X		NOTE: Refusal encountered at 6.0' bgs, continued drilling at stepout location on 6/7/2012	
835		3	6.0-10.0	3.0	0.0			(8.1-15.0) SAND, fine; and SILT; moist; dark gray (10YR 4/1).	
					0.0				
					0.0				
					0.0				
830		4	10.0-15.0	3.1	0.0				
					0.0	X			
					0.0				
15								End of boring at 15.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected
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Date Start/Finish: 6/6/2012 - 6/7/2012 Drilling Company: Stock Driller's Name: Rich Stock Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 452979.10 Easting: 13063843.24 Casing Elevation: NA Borehole Depth: 14.5' bgs Surface Elevation: 843.52 Descriptions By: A. Villhauer	Well/Boring ID: SB-A21-GQ31 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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845									
0									
					NA			(0.0-1.0) CONCRETE	
					0.0			(1.0-4.0) SAND, fine; well sorted; moist; brown (10YR 4/3).	
					0.0			NOTE: FILL.	
840		1	1.0-5.0	NA	0.0				
					0.0			(4.0-6.7) SAND, fine; and SILT; moist; dark gray (10YR 4/1).	
5					0.0			NOTE: wet at 5.0' bgs.	
					0.0			NOTE: siltstone fragments at 6.0' bgs abd 6.7' bgs.	
		2	5.0-9.0	4.0	0.0			(6.7-13) SAND, medium; well sorted; moist; yellowish brown (10YR 5/4).	
					0.0			NOTE: thin (0.5-2.0 cm) bands of silt present from 8.6'-9.0' bgs.	
835					0.0				
					0.0				
10					0.0				
		3	9.0-13.2	3.2	0.0				
					0.0			(13-14.5) SAND, fine; and SILT; moist; dark gray (10YR 4/1).	
830		4	13.2-14.5	1.5	0.0				
								End of boring at 14.5' bgs	
15									

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater encountered at 5.0' bgs No Odor or Staining detected
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Date Start/Finish: 9.19.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 452979.3409 Easting: 13063894.10 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 843.48 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A21-GQ36 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	0								
		1	0.0-5.0	3.8	0.0			(0.0-1.2') CONCRETE.	
					0.0			(1.2-6.0') SAND, fine; well sorted; moist; dark yellowish brown (10YR 4/6).	
					0.0				
					0.0				
					0.0				
-5	-5				0.0				
		2	5.0-9.0	4.1	0.0			(6.0-9.4') SAND, fine to coarse, subangular; poorly sorted; moist; yellowish brown (10YR 5/4).	
					0.0				
					0.0				
					0.0				
					0.0				
-10	-10				0.0			(9.4-20.0') SAND, fine to very fine; well sorted; moist; brown (10YR 5/4).	
					0.0			NOTE: thin 1.0-2.0 cm bands of silt at 9.9' bgs.	
					0.0				
		3	9.0-15.0	3.3	0.0				
					0.0				

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 9.19.12 Drilling Company: PME Driller's Name: Steve / Kelly Drilling Method: Geoprobe Sampling Method: Direct Push Rig Type: Geoprobe	Northing: 452979.3409 Easting: 13063894.10 Casing Elevation: NA Borehole Depth: 20.0' bgs Surface Elevation: 843.48 Descriptions By: Alex Villhauer	Well/Boring ID: SB-A21-GQ36 Client: RACER Location: RACER Lansing Plant 3
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	-15	4	15.0-20.0	3.8	0.0			NOTE: thin 1.0-2.0 cm bands of silt at 14.5' bgs.	
20	-20				0.0			NOTE: thin 1.0-2.0 cm bands of silt at 19.5' bgs.	
25	-25				0.0			End of boring at 20.0' bgs.	

	Remarks: bgs = below ground surface Groundwater not encountered. No odor or staining observed.
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Date Start/Finish: 6/7/2012 Drilling Company: Stock Driller's Name: Jake Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452946.00 Easting: 13063822.52 Casing Elevation: NA Borehole Depth: 15.0' bgs Surface Elevation: 843.38 Descriptions By: A. Villhaues	Well/Boring ID: SB-A21-GT29 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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845									
0									
		1	0.0-5.0	NA	NA	X		(0-1.2) CONCRETE	
					0.2	X		(1.2-7.0) SAND, fine; well sorted, moist; brown (10YR 4/3). NOTE: FILL.	
840					0.1				
					0.3				
5					0.0				
		2			0.0	X			
			5.0-10.0	4.1	0.0	X		(7.0-9.0) SAND, fine; and SILT; moist; dark gray (10YR 4/1). NOTE: siltstone fragments from 8.6'-9.0' bgs.	
835					0.1				
					0.0			(9.0-15.0) SAND, fine; well sorted; dry; yellowish brown (10YR 5/4). NOTE: very difficult to drill through; tight sand.	
10					0.0				
		3	10.0-15.0	3.6	0.0				
					0.0				
830					0.0				
					0.0	X			
15		4			0.0	X		End of boring at 15.0' bgs	

	Remarks: BGS = Below ground surface Groundwater not encountered No Odor or Staining detected
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Boring Log .

Project No.: 01-4172-0

Boring No.: SB-P6-KJ266

Project Name: RACER Lansing Plants

Date Drilled: 11/30/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE		No Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts PID (ppm)	
0		Ground Surface			
		(0.0 - 0.3) TOPSOIL / GRASS		- 0.0	
2		CL- (0.3 - 4.0) CLAY medium plasticity; little fine sand, trace small pebbles, subrounded; moist; stiff; dark grayish brown (10YR 4/2)	KJ-266 1.0' - 2.0'	- 0.0	
4		CLS- (4.0 - 7.5) CLAY low plasticity; and fine sand, moist; medium stiff; brown (10YR 4/3)		- 0.0	
6				- 0.0	
8				- 0.0	
10				- 0.0	
12				- 0.0	
14		CH- (7.5 - 12.5) CLAY high plasticity; trace fine sand, trace granules, angular; dry; stiff; gray (10YR 5/1)		- 0.0	
16				- 0.0	
18				- 0.0	
20				- 0.0	
22				- 0.0	
24		SP- (12.5 - 13.5) SAND fine; well sorted; moist; dark gray (10YR 4/1)		- 0.0	
26				- 0.0	
28				- 0.0	
30				- 0.0	
				- 0.0	
		CH- (13.5 - 22.5) CLAY high plasticity; trace fine sand, trace granules to small pebbles, angular; moist; medium stiff; gray (10YR 5/1)	11.0' - 15.0'	- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	
		Note: seam of dense moist silt @ 18.2' - 18.5'		- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	
		CH- (22.5 - 30.0) CLAY high plasticity; little silt, moist; soft; gray (10YR 5/1)		- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	
			KJ-266 25.0' - 26.0'	- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	
				- 0.0	

Completion Notes: End Of Boring at 30' bgs hole filled with bentonite grout

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



Soil Gas Log:

Project No.: 01-4172-0

Well No.: SG-A2-PC75

Project Name: RACER Lansing Plants

Date Drilled: 11/29/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			Soil Gas Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				Bentonite Grout Seal 3/16" ID Polytubing Stainless Steel Soil Gas Screen Sand Pack
		(0.0 - 0.3) ASPHALT				
		(0.3 - 0.8) CONCRETE		-	0.0	
		SP- (0.8 - 6.0) SAND very fine to fine; well sorted; moist; dark yellowish brown (10YR 4/6)		-	0.0	
2				-	0.0	
				-	0.0	
4				-	0.0	
				-	0.0	
			PC-75 5.0' - 5.5'		0.0	
6						

Completion Notes: End Of Boring at 6' bgs hole filled with bentonite grout

1. Boring backfilled with natural soils unless otherwise noted



Soil Gas Log:

Project No.: 01-4172-0

Well No.: SG-A2-PC77

Project Name: RACER Lansing Plants

Date Drilled: 11/29/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			Soil Gas Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				Bentonite Grout Seal 3/16" ID Polytubing Stainless Steel Soil Gas Screen Sand Pack
		(0.0 - 0.2) ASPHALT				
		(0.2 - 0.6) CONCRETE		-	0.0	
		SP- (0.6 - 1.5) SAND fine; well sorted; moist; dark yellowish brown (10YR 4/6)		-	0.0	
		SC- (1.5 - 6.0) SAND fine; and clay, trace small pebbles, subrounded, moist; brown (10YR 4/3)		-	0.0	
2				-	0.0	
				-	0.0	
4				-	0.0	
				-	0.0	
			PC-77 5.0' - 5.5'		0.0	
6						

Completion Notes: End Of Boring at 6' bgs hole filled with bentonite grout

1. Boring backfilled with natural soils unless otherwise noted



Soil Gas Log:

Project No.: 01-4172-0

Well No.: SG-A7-TC220

Project Name: RACER Lansing Plants

Date Drilled: 11/29/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			Soil Gas Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				Bentonite Grout Seal 3/16" ID PolyTubing Stainless Steel Soil Gas Screen Sand Pack
		(0.0 - 0.5) TOPSOIL / GRASS				
		SP- (0.5 - 5.0) SAND fine; trace granules to small pebbles, subrounded; well sorted; moist; brown (10YR 4/3)		-	0.0	
2				-	0.0	
				-	0.0	
4				-	0.0	
			TC-220 4.0' - 4.5'			
				-	0.0	
6						

Completion Notes: End Of Boring at 5' bgs hole filled with bentonite grout

1. Boring backfilled with natural soils unless otherwise noted



Soil Gas Log:

Project No.: 01-4172-0

Well No.: SG-A7-TC221

Project Name: RACER Lansing Plants

Date Drilled: 11/29/12

Facility ID#:

Drill Rig: Geoprobe

Logged By: Alexander Villhauer

Sampling Method: Dual Tube DT22

SUBSURFACE PROFILE			SAMPLE			Soil Gas Well Installed
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	
0		Ground Surface				Bentonite Grout Seal 3/16" ID Polytubing Sand Pack Stainless Steel Soil Gas Screen
		(0.0 - 0.4) TOPSOIL / GRASS				
		SP- (0.4 - 5.0) SAND fine; trace granules to small pebbles, subrounded; well sorted; moist; brown (10YR 4/3)		-	0.0	
2				-	0.0	
				-	0.0	
4				-	0.0	
			TC-221 4.0' - 4.5'	-	0.0	
6						

Completion Notes: End Of Boring at 5' bgs hole filled with bentonite grout

1. Boring backfilled with natural soils unless otherwise noted

Date Start/Finish: 6/4/2012 - 6/5/2012 Drilling Company: Geoserv Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452839.67 Easting: 13063772.36 Casing Elevation: NA Borehole Depth: 76.5' bgs. Surface Elevation: 861.38 Descriptions By: M. Hicks	Well/Boring ID: VAP-A11-HE24 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860									
		1	0.0-5.0	5	0.0			(0.0-2.1) CONCRETE	
					0.0				
					0.0			(2.1-3.5) SAND, fine to very coarse, some granules to large pebbles, subangular to subround; little silt; poorly sorted; moist; brown (10YR 4/3).	
					0.0			NOTE: FILL; wet.	
					0.0			(3.5-8.4) CLAY, some silt, high plasticity; some very fine to medium sand. trace granules to medium pebbles; no dilatancy; moist; soft; brown (10YR 4/3) mottled grayish brown.	
					0.0			NOTE: large to very large pebbles at 4.5' bgs.	
5					0.0				
855		2	5.0-8.25	3.25	0.0				
					0.0				
					0.0				
					0.0				
10					0.0			(8.4-13.35) SILT, non-plastic; some very fine to fine sand, little coarse sand to medium pebbles, subangular to subround; no dilatancy; dry; very stiff; brown (10YR 4/3).	
850		3	8.25-13.25	5	0.0			NOTE: some small to medium pebbles from 11.0'-11.25' bgs.	
					0.0			NOTE: sand, fine to coarse, subangular to subround; little silt; moist; brown (10YR 4/3) from 11.9'-12.0' bgs.	
					0.0				

	Remarks: BGS = Below ground surface Groundwater encountered at 28.0' and 35.0' bgs Staining and odor observed at 7.0' bgs Groundwater Sample collected from 37-38' bgs Shake test 7-9' bgs: negative
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Date Start/Finish: 6/4/2012 - 6/5/2012 Drilling Company: Geoserv Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452839.67 Easting: 13063772.36 Casing Elevation: NA Borehole Depth: 76.5' bgs. Surface Elevation: 861.38 Descriptions By: M. Hicks	Well/Boring ID: VAP-A11-HE24 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	845	4	13.25-18.25	5	0.0			(13.35-19.4) CLAY, some silt, high plasticity; little very fine to fine sand, trace granules to medium pebbles, subangular to subround; no dilatancy; moist; very soft to medium stiff; dark grayish brown (10YR 4/2). NOTE: Glacial TILL. NOTE: increase in sand content with depth.	
20	840	5	18.25-23.25	5	0.0			(19.4-21.35) SAND, very fine to fine, trace coarse sand; and SILT, non-plastic; rapid dilatancy; wet; yellowish brown (10YR 5/6). NOTE: laminated silt; 0.01'-0.04' thick.	
					0.0			(21.35-22.0) SILT, non-plastic; some very fine to fine sand; slow dilatancy; moist; dark grayish brown (10YR 4/2).	
25	835	6	23.25-28.25	5	0.0			(22.0-31.4) CLAY, some silt, high plasticity; little very fine to fine sand, trace granules to medium pebbles, subangular to subround; medium stiff; dark grayish brown (10YR 4/2). NOTE: some sand at 22.6' bgs.	

	Remarks: BGS = Below ground surface Groundwater encountered at 28.0' and 35.0' bgs Staining and odor observed at 7.0' bgs Groundwater Sample collected from 37'-38' bgs Shake test 7-9' bgs: negative
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Date Start/Finish: 6/4/2012 - 6/5/2012 Drilling Company: Geoserv Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452839.67 Easting: 13063772.36 Casing Elevation: NA Borehole Depth: 76.5' bgs. Surface Elevation: 861.38 Descriptions By: M. Hicks	Well/Boring ID: VAP-A11-HE24 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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30					0.0				
		7	28.25-33.25	5	0.0				
830					0.0			(31.4-55.5) SAND, fine to medium, subangular to subround; moist; brown (10YR 4/3).	
					0.0			NOTE: medium to coarse sand, trace granules to small pebbles at 32.35' bgs.	
					0.0			NOTE: small to large pebbles; moist from 33.18'-33.23' bgs.	
					0.0			NOTE: fine to medium sand, trace coarse sand to small pebbles; dry at 33.23' bgs.	
					NA				
					NA				
35					NA				
		8	33.25-38.25	5	NA				
825					NA				
					NA				
					NA				
					NA				
					NA				
40					NA			NOTE: very fine sand from 39.35'-39.55' bgs.	
					NA				
		9	38.25-43.25	5	NA			NOTE: some small to large pebbles, subangular to subround from 40.9'-41.6' bgs.	
820					NA				
					NA				
					NA			NOTE: very fine sand; and silt, non-plastic; dry from 42.5'-42.7' bgs.	
					NA			NOTE: very fine to fine sand, trace medium to coarse sand; dry at 42.7' bgs.	
					NA				
					NA				
45					NA				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater encountered at 28.0' and 35.0' bgs Staining and odor observed at 7.0' bgs Groundwater Sample collected from 37'-38' bgs Shake test 7'-9' bgs: negative
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Date Start/Finish: 6/4/2012 - 6/5/2012 Drilling Company: Geoserv Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452839.67 Easting: 13063772.36 Casing Elevation: NA Borehole Depth: 76.5' bgs. Surface Elevation: 861.38 Descriptions By: M. Hicks	Well/Boring ID: VAP-A11-HE24 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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45									
815		10	43.25-48.25	5	NA				
					NA				
					NA				
					NA				
50					NA				
					NA				
810		11	48.25-53.25	5	NA				
					NA				
					NA				
					NA				
55					NA				
					NA				
					NA				
805		12	53.25-58.25	5	NA			(55.5-56.1) CLAY, some silt, high plasticity; little very fine to fine sand, trace granules to large pebbles, subangular to subround; moist; medium stiff; brown (10YR 4/3) to dark grayish brown (10YR 4/2).	
					NA			(56.1-56.55) SAND, fine to coarse, subangular to subround; and GRAVEL, granule to medium pebble. subangular to subround; poorly sorted; dry; brown (10YR 4/3).	
					NA			(56.55-60.0) SAND, very fine to medium, trace granules to medium pebbles; and SILT, non-plastic, no dilatancy; dry to slightly moist; dark grayish brown (10YR 4/2).	
					NA				
					NA				
60					NA			(60.0-64.45) SAND, very fine; and SILT, non-plastic, no dilatancy; moist; dark grayish brown (10YR 4/2).	

	Remarks: BGS = Below ground surface Groundwater encountered at 28.0' and 35.0' bgs Staining and odor observed at 7.0' bgs Groundwater Sample collected from 37-38' bgs Shake test 7-9' bgs: negative
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Date Start/Finish: 6/4/2012 - 6/5/2012 Drilling Company: Geoserv Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452839.67 Easting: 13063772.36 Casing Elevation: NA Borehole Depth: 76.5' bgs. Surface Elevation: 861.38 Descriptions By: M. Hicks	Well/Boring ID: VAP-A11-HE24 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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800	13	58.25-63.25	5	NA				NOTE: slow dilatancy; wet from 61.3'-62.05' bgs.	
				NA				NOTE: silt; dry from 62.05'-62.25' bgs. NOTE: laminated silt; 0.01'-0.03' thick.	
				NA				NOTE: silt; dry from 64.35'-64.45' bgs.	
65				NA				(64.45-76.5) SILT, non-plastic; some very fine sand; no dilatancy; moist; dark grayish brown (10YR 4/2).	
795	14	63.25-68.25	5	NA					
				NA					
70				NA					
790	15	68.25-73.25	5	NA					
				NA					
75	16	73.25-76.5	3.25	NA				NOTE: rapid dilatancy; wet; very soft from 73.7'-74.6' bgs.	
				NA				NOTE: dry; hard at 74.6' bgs.	
785				NA					
								End of boring at 76.5' bgs.	

	Remarks: BGS = Below ground surface Groundwater encountered at 28.0' and 35.0' bgs Staining and odor observed at 7.0' bgs Groundwater Sample collected from 37-38' bgs Shake test 7-9' bgs: negative
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Date Start/Finish: 5/30/12 Drilling Company: Stock Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 454027.46 Easting: 13064776.79 Casing Elevation: NA Borehole Depth: 80.0' bgs Surface Elevation: 863.31 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A14-CP124 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
		1	0.0-5.0	5.0	0.0			(0.0-0.7) CONCRETE	
					0.0			(0.7-4.5) SAND, very fine to coarse, little granules to small pebbles, subangular to subrounded; moist; brown (10YR 4/3). NOTE: FILL.	
860					0.0				
					0.0				
5		2	5.0-8.25	2.0	0.0			(4.5-13.4) CLAY, some silt, high plasticity; some fine to medium sand, trace coarse sand to medium pebbles, subangular to subrounded; no dilatancy; moist; brown (10YR 4/3).	
					0.0				
					0.0				
855					0.0				
		3	8.25-13.25	3.5	NA				
					NA				
10					NA				
					NA				
					NA			NOTE: very large pebbles, angular at 11.0' bgs.	
					NA				
					NA				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected at 61.5' and between 77.5'-78.0' bgs No Odor detected No Staining detected
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Date Start/Finish: 5/30/12 Drilling Company: Stock Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 454027.46 Easting: 13064776.79 Casing Elevation: NA Borehole Depth: 80.0' bgs Surface Elevation: 863.31 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A14-CP124 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15	850	4	13.25-18.25	3.0	NA		 (13.4-14.5) SAND, fine to medium, little coarse sand to medium pebbles, subangular to subrounded; little silt; moist; (10YR 4/3).		
					NA		 (14.5-15.0) SILT, non-plastic, no dilatancy; and SAND, very fine to fine, trace small pebbles, subangular to subrounded; dry; brown (10YR 4/3).		
					NA		 (15.0-22.0) CLAY, some silt, medium plasticity; some very fine sand, trace granules to small pebbles; no dilatancy; moist; stiff; dark grayish brown (10YR 4/2).		
					NA				
					NA				
20	845	5	18.25-23.25	4.75	NA				
					NA				
					0.0				
					0.0				
					0.0		 (22.0-22.9) SILT, non-plastic, no dilatancy; and SAND, very fine to fine; moist; brown (10YR 4/2).		
					0.0		 (22.9-24.05) CLAY, some silt; little sand, very fine, trace small pebbles; no dilatancy; moist; hard; dark grayish brown. NOTE: TILL.		
25	840	6	23.25-28.25	5.25	0.0		 (24.05-24.7) SILT, non-plastic, no dilatancy; and SAND, very fine to fine; dry to slightly moist; brown (10YR 4/3).		
					0.0		 (24.7-27.5) CLAY, some silt, high plasticity; some fine to medium sand, trace coarse sand to medium pebbles, subangular to subround; moist; soft; dark grayish brown (10YR 4/2).		
					0.0				
					0.0				
					0.0		 (27.5-29.65) SAND, very fine to medium, trace coarse sand to granules, subangular to subrounded; dry; brown (10YR 4/3).		
835					0.0			NOTE: color change to light brownish gray (10YR 6/2); very fine to fine sand at 28.6' bgs.	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected at 61.5' and between 77.5'-78.0' bgs No Odor detected No Staining detected
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Date Start/Finish: 5/30/12 Drilling Company: Stock Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 454027.46 Easting: 13064776.79 Casing Elevation: NA Borehole Depth: 80.0' bgs Surface Elevation: 863.31 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A14-CP124 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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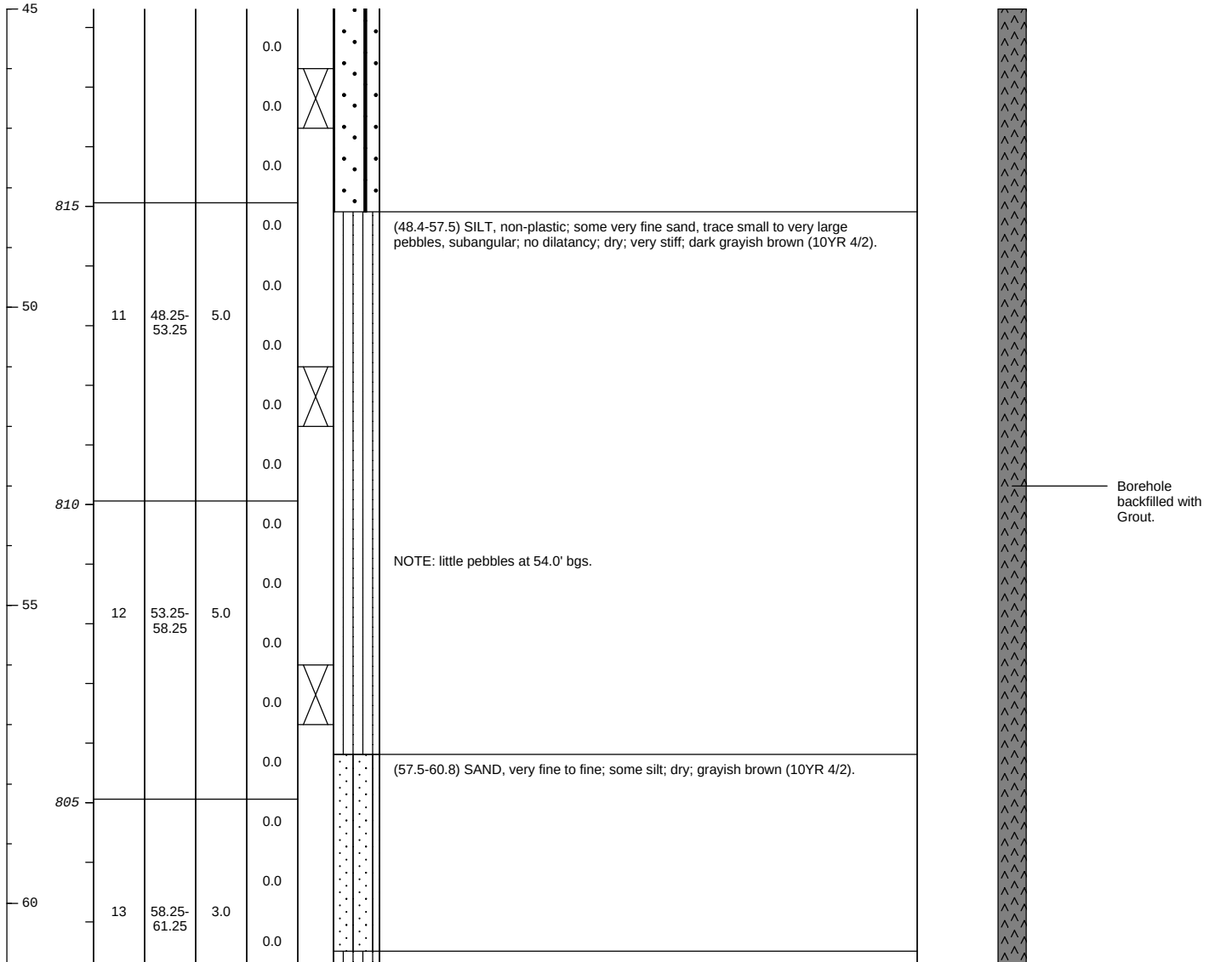
30		7	28.25-33.25	5.0	0.0			(29.65-32.8) SAND, very fine to fine; and SILT, non-platic, no dilatancy; dry to slightly moist; light brownish gray (10YR 6/2) to dark grayish brown (10YR 4/2). NOTE: laminated silt from 29.65'-29.9', 30.65'-31.15', and 31.50'-31.65' bgs.	
					0.0				
					0.0				
					0.0				
830					0.0			(32.8-36.75) SAND, very fine to medium; and SILT, non-plastic, no dilatancy; dry; very stiff; dark grayish brown (10YR 4/2).	
					0.0				
35		8	33.25-38.25	5.0	0.0				
					0.0				
					0.0				
					0.0				
					0.0			(36.75-43.7) SAND, very fine to fine; well sorted; dry; light brownish gray (10YR 6/2).	
825					0.0				
					0.0				
40		9	38.25-43.25		0.0				
					0.0				
					0.0				
					0.0				
820					0.0			(43.7-44.05) CLAY, some silt; some fine to medium sand, trace samll pebbles; no dilatancy; dry; stiff; dark grayish brown (10YR 4/2).	
					0.0			(44.05-48.4) SAND, very fine to medium, little coarse sand to small pebbles, subangular to subrounded; some silt; poorly sorted; dry; grayish brown (10YR 5/3).	
45		10	43.25-48.25	5.0	0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected at 61.5' and between 77.5'-78.0' bgs No Odor detected No Staining detected
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Date Start/Finish: 5/30/12 Drilling Company: Stock Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 454027.46 Easting: 13064776.79 Casing Elevation: NA Borehole Depth: 80.0' bgs Surface Elevation: 863.31 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A14-CP124 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected at 61.5' and between 77.5'-78.0' bgs No Odor detected No Staining detected
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Date Start/Finish: 5/30/12 Drilling Company: Stock Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 454027.46 Easting: 13064776.79 Casing Elevation: NA Borehole Depth: 80.0' bgs Surface Elevation: 863.31 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A14-CP124 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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								(60.8-62.95) SILT, non-plastic; some very fine sand; no dilatancy; dry; very stiff; dark grayish brown (10YR 4/2). NOTE: wet; slow dilatancy (no water produced) at 61.5' bgs.	
800		14	61.25-63.25	2.0	0.0				
					0.0			(62.95-63.8) SAND, fine to medium, trace coarse sand and granules, subangular to subround; poorly sorted; moist; grayish brown (10YR 5/2).	
65		15	63.25-68.25	5.0	0.0			(63.8-79.5) SILT, non-plastic; some very fine sand; no dilatancy; moist; very stiff; dark grayish brown (10YR 5/2). NOTE: laminated very fine sand, 0.01-0.3' thick; dry; from 65-85'-66.3' bgs.	
					0.0				
					0.0				
795					0.0				
					0.0				
70		16	68.25-73.25	5.0	0.0				
					0.0				
					0.0				
					0.0				
790					0.0				
					0.0				
75		17	73.25-77.5	4.25	0.0				
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected at 61.5' and between 77.5'-78.0' bgs No Odor detected No Staining detected
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Date Start/Finish: 5/30/12 Drilling Company: Stock Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 454027.46 Easting: 13064776.79 Casing Elevation: NA Borehole Depth: 80.0' bgs Surface Elevation: 863.31 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A14-CP124 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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785	18	77.5-80.0		0.0	X			NOTE: wet from 77.5'-78.0' bgs.	
				0.0					
				0.0				(79.5-80.0) SANDSTONE, silt; fine to coarse sand, little granules to very large pebbles; weathered.	
80								End of Boring at 80.0' bgs.	Borehole backfilled with Grout.
780									
85									
775									
90									

	Remarks: BGS = Below ground surface Groundwater detected at 61.5' and between 77.5'-78.0' bgs No Odor detected No Staining detected
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Date Start/Finish: 5/30/12 Drilling Company: Stock Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453849.38 Easting: 13064533.97 Casing Elevation: NA Borehole Depth: 85.0' bgs Surface Elevation: 863.34 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A14-DH100 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
		1	0.0-5.0	5.0	0.0			(0.0-0.7) CONCRETE	
					0.0			(0.7-8.05) CLAY, some silt, medium plasticity; some fine to coarse sand, trace granules to medium pebbles; no dilatancy; moist; dark yellowish brown (10YR 4/4).	
860					0.0				
					0.0				
5					0.0				
		2	5.0-8.25	3.25	0.0				
					0.0				
					0.0			(8.05-8.5) SAND, fine to coarse, subangular to subround; and GRAVEL, granules to small pebbles, subangular to subround; little silt; poorly sorted; moist; yellowish brown (10YR 5/4).	
855					0.0				
					0.0			(8.5-13.65) SAND, very fine to fine, trace granules to small pebbles; and SILT; non plastic, no dilatancy; dry; stiff; dark yellowish brown (10YR 4/4).	
					0.0				
10		3	8.25-13.25	3.5	0.0				
					0.0				
					0.0				
					0.0				
					0.0				

	Remarks: BGS = Below ground surface Groundwater detected between 64.0'-64.8', at 68.40' and again between 70.0'-70.4' bgs No Odor detected No Staining detected
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Date Start/Finish: 5/30/12 Drilling Company: Stock Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453849.38 Easting: 13064533.97 Casing Elevation: NA Borehole Depth: 85.0' bgs Surface Elevation: 863.34 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A14-DH100 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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850				0.0				(13.65-22.20) CLAY, some silt, medium plasticity; some very fine to fine sand, trace granules to medium pebbles; no dilatancy; moist; medium stiff; dark yellowish brown (10YR 4/4). NOTE: TILL	
15	4	13.25-18.25	5.0	0.0				NOTE: color change to dark grayish brown (10YR 4/2) at 17.0' bgs.	
				0.0					
				0.0					
				0.0					
845				0.0					
				0.0					
20	5	18.25-23.25	5.0	0.0					
				0.0					
				0.0					
				0.0					
				0.0					
840				0.0				(22.20-26.10) SILT, non plastic, no dilatancy; and SAND, very fine to fine, trace granules to small pebbles, subangular to subround; dry; very hard; brown (10YR 4/3). NOTE: very fine to fine sand seam, 0.03' thick; dry at 22.5' bgs.	
				0.0				NOTE: high plasticity; no dilatancy; moist; soft from 24.65'-26.10' bgs.	
25	6	23.25-28.25	5.0	0.0				(26.10-26.45) SAND, very fine to very coarse, little granules to medium pebbles, subangular to subround; poorly sorted; dry; dark yellowish brown (10YR 4/6).	
				0.0				(26.45-27.30) SILT, non plastic, no dilatancy; and SAND, very fine to fine; dry; brown (10YR 5/3). NOTE: very fine to fine sand layer; dry; pale brown (10YR 6/3) from 26.83'-26.9' bgs.	
				0.0				(27.30-32.93) CLAY, some silt, medium plasticity; some very fine to medium sand, trace granules to large pebbles, subangular, moist, medium stiff; dark grayish brown (10YR 4/2).	
835				0.0					

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 64.0'-64.8', at 68.40' and again between 70.0'-70.4' bgs No Odor detected No Staining detected
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Date Start/Finish: 5/30/12 Drilling Company: Stock Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453849.38 Easting: 13064533.97 Casing Elevation: NA Borehole Depth: 85.0' bgs Surface Elevation: 863.34 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A14-DH100 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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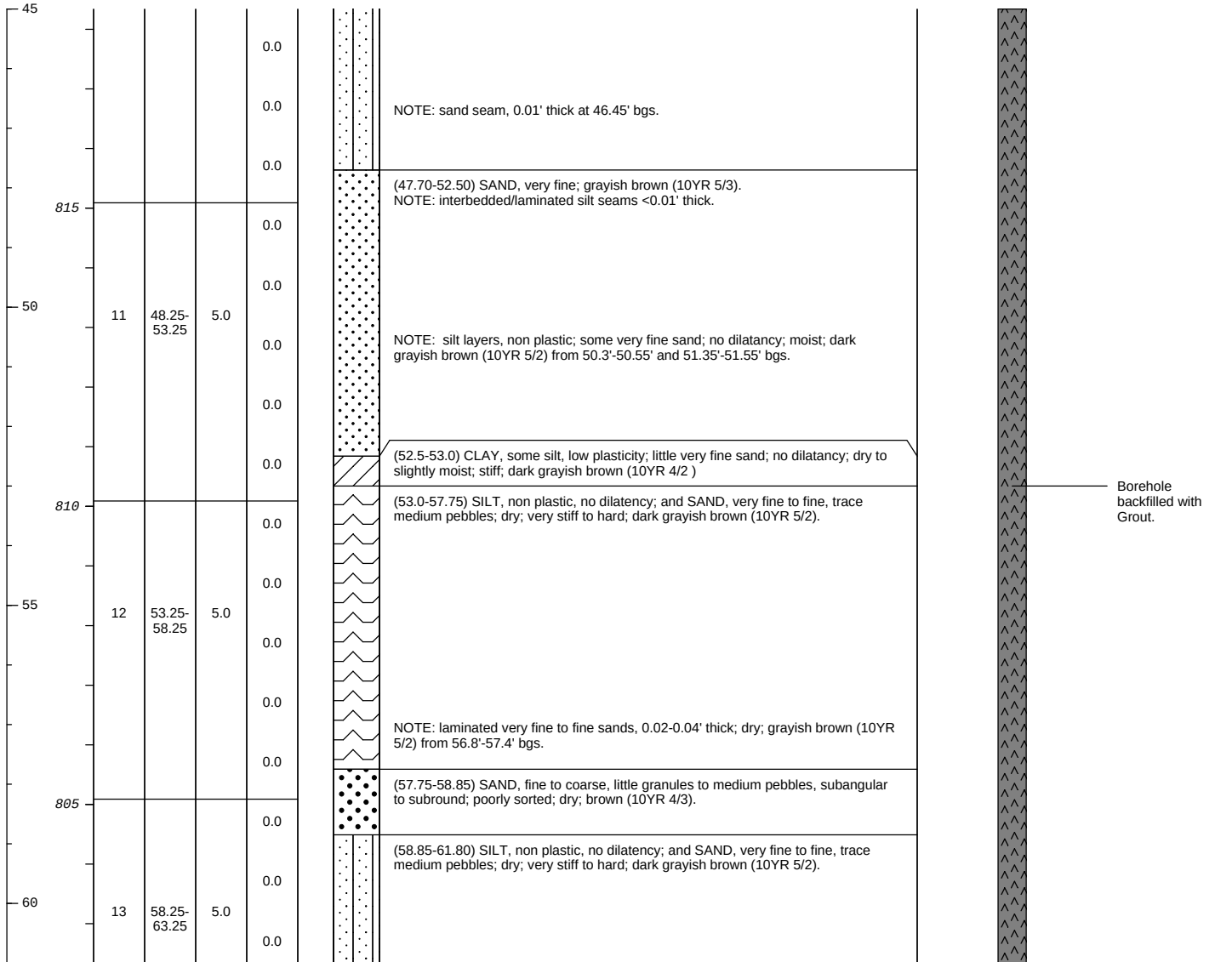
30		7	28.25-33.25	5.0	0.0				
					0.0				
					0.0				
					0.0				
					0.0			NOTE: stiff at 32.5' bgs.	
830					0.0			(32.93-38.8) SAND, very fine to fine; well sorted; dry; grayish brown (10YR 5/2).	
					0.0				
35		8	33.25-38.25	4.5	0.0			NOTE: CLAY layer, medium plasticity; dry; very stiff from 35.1'-35.2' bgs. NOTE: very fine to coarse sand, some granules to medium pebbles, trace large pebbles, subangular to subround; poorly sorted; dry; grayish brown (10YR 5/2) at 35.2' bgs.	
					0.0				
					0.0			NOTE: SILT, non plastic; some very fine sand; dry; very stiff from 36.8'-37.1' bgs.	
					0.0				
825					0.0				
					0.0			(38.8-47.70) SILT, non plastic, no dilatency; and SAND, very fine to fine, trace medium pebbles; subangular; dry; very stiff to hard; dark grayish brown (10YR 5/2).	
40		9	38.25-43.25	5.0	0.0			NOTE: laminated very fine to fine sand, 0.02 to 0.04' thick; dry; grayish brown (10YR 5/2) from 38.8'-42.0' bgs.	
					0.0				
					0.0				
					0.0				
820					0.0				
					0.0				
45		10	43.25-48.25	5.0	0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 64.0'-64.8', at 68.40' and again between 70.0'-70.4' bgs No Odor detected No Staining detected
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Date Start/Finish: 5/30/12 Drilling Company: Stock Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453849.38 Easting: 13064533.97 Casing Elevation: NA Borehole Depth: 85.0' bgs Surface Elevation: 863.34 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A14-DH100 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 64.0'-64.8', at 68.40' and again between 70.0'-70.4' bgs No Odor detected No Staining detected
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Date Start/Finish: 5/30/12 Drilling Company: Stock Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453849.38 Easting: 13064533.97 Casing Elevation: NA Borehole Depth: 85.0' bgs Surface Elevation: 863.34 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A14-DH100 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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					0.0				
					0.0			(61.80-63.40) SAND, very fine to fine; dry; grayish brown (10YR 5/3). NOTE: laminated silt, <0.01' thick.	
800								NOTE: all sands from 61.8' to end of boring are dark grayish brown (10YR 4/2) with a reddish tint.	
					0.0			(63.40-71.40) SILT, non plastic, no dilatancy; and SAND, very fine to fine; moist; stiff; dark grayish brown (10YR 4/2).	
65	14	63.25-68.25	5.0		0.0			NOTE: fast to slow dilatancy; wet from 64.0'-64.8' bgs.	
					0.0			NOTE: fine to medium sand, subangular to subround; well sorted; moist; dark grayish brown (10YR 4/2) from 65.0'-65.2' bgs.	
					0.0			NOTE: dry at 65.2' bgs.	
					0.0				
					0.0				
795					0.0			NOTE: SAND, very fine; and SILT; rapid dilatancy; wet from 68.0'-69.4' bgs.	
	15	68.25-71.5	3.25		0.0				
70					0.0			NOTE: SAND, very fine; and SILT, rapid dilatancy; wet from 70.0'-70.4' bgs.	
					0.0				
	16	71.5-73.25	1.75		0.0			(71.4-72.95) SAND, fine to medium, subangular to subround; well sorted; moist; dark grayish brown (10YR 4/2).	
					0.0				
790					0.0			(72.95-85.0) SILT, non plastic; little very fine sand; no dilatancy; moist; very stiff, dark grayish brown (10YR 4/2)	
								NOTE: laminated sands, <0.01' thick, very fine.	
75	17	73.25-78.25	5.0		0.0				
					0.0				
					0.0			NOTE: very fine to medium sand; moist from 76.65'-76.8' bgs.	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 64.0'-64.8', at 68.40' and again between 70.0'-70.4' bgs No Odor detected No Staining detected
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Date Start/Finish: 5/30/12 Drilling Company: Stock Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453849.38 Easting: 13064533.97 Casing Elevation: NA Borehole Depth: 85.0' bgs Surface Elevation: 863.34 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A14-DH100 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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785					0.0			Note: dry at 77.1' bgs.	
80	18	78.25-82.25	4.0		0.0			Note: dry; hard at 795' bgs.	
					0.0				
					0.0				
780	19	82.25-85.0	2.75		NA				
					NA				
85								End of Boring at 85.0' bgs.	
775									
90									

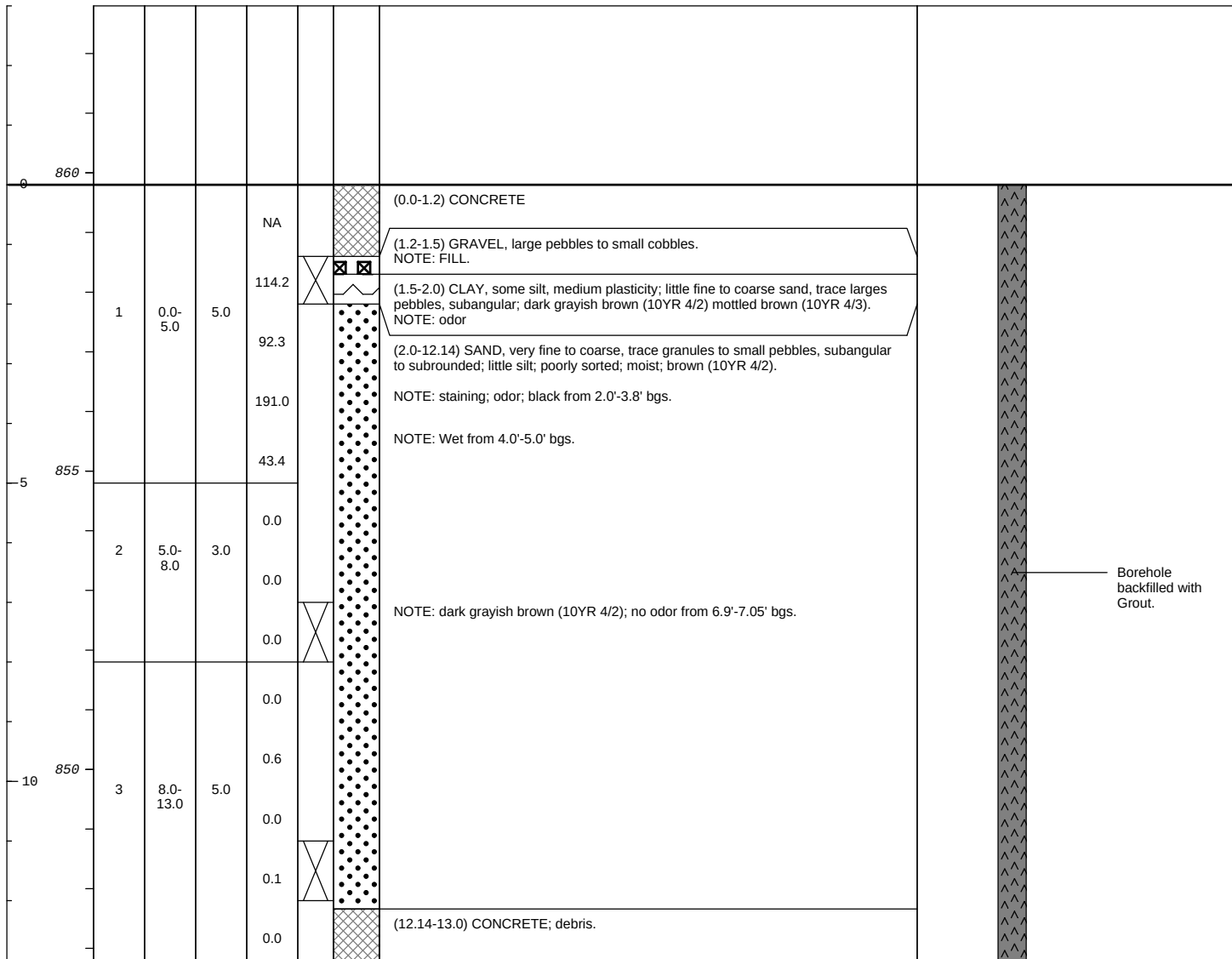


Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 64.0'-64.8', at 68.40' and again between 70.0'-70.4' bgs No Odor detected No Staining detected
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Date Start/Finish: 5/18/12-5/23/12 Drilling Company: GeoServ Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Direct Push	Northing: 453876.08 Easting: 13064975.35 Casing Elevation: NA Borehole Depth: 67.0' bgs Surface Elevation: 859.80 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A17-DE144 Client: RACER Trust Location: Lansing, MI
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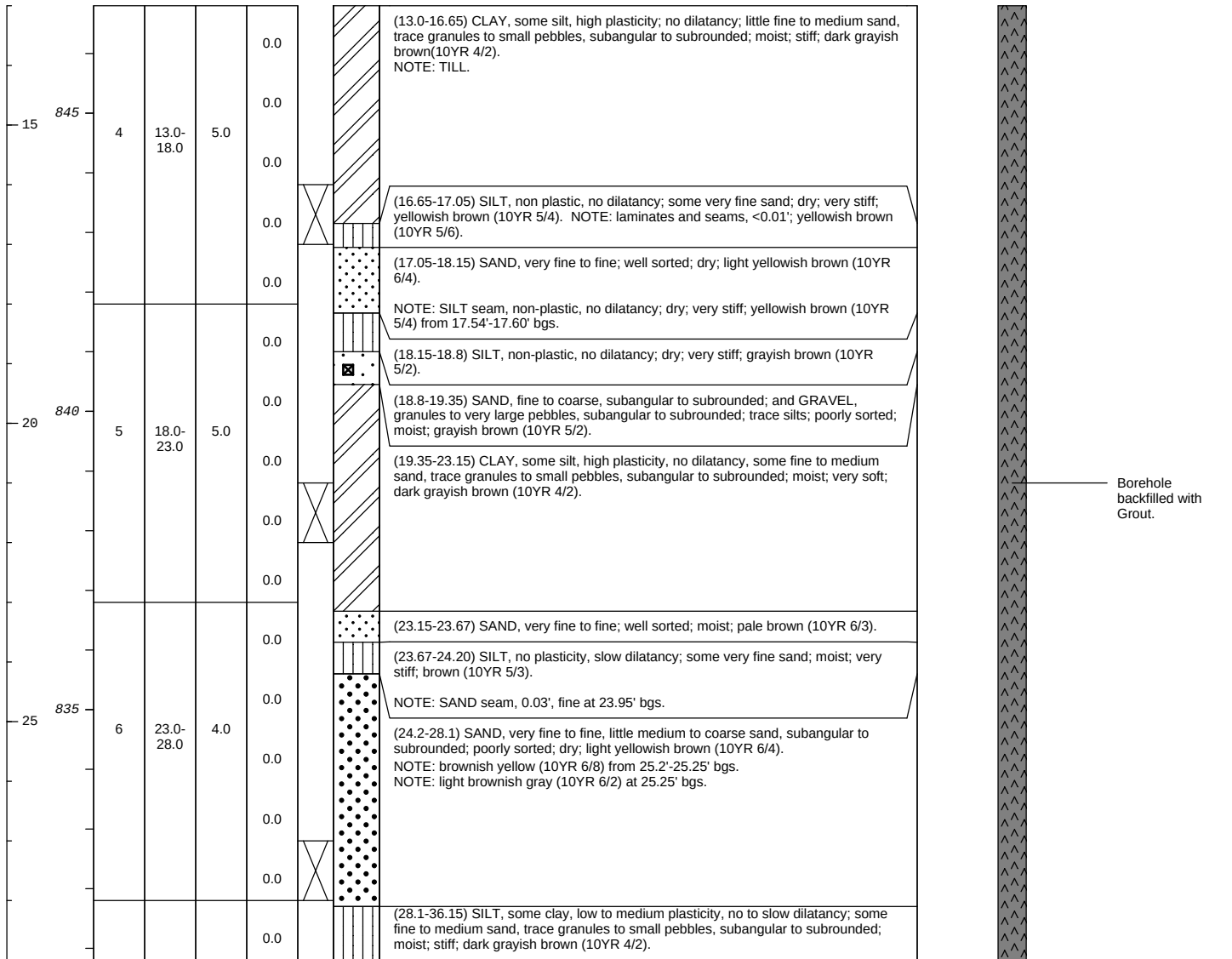
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-5.0', 40.0'-40.09', at 63.0' and again between 63.8'-65.2' bgs Odor detected between 1.5'-3.8' bgs Staining detected between 2.0'-3.8' bgs
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Date Start/Finish: 5/18/12-5/23/12 Drilling Company: GeoServ Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Direct Push	Northing: 453876.08 Easting: 13064975.35 Casing Elevation: NA Borehole Depth: 67.0' bgs Surface Elevation: 859.80 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A17-DE144 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-5.0', 40.0'-40.09', at 63.0' and again between 63.8'-65.2' bgs Odor detected between 1.5'-3.8' bgs Staining detected between 2.0'-3.8' bgs
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Date Start/Finish: 5/18/12-5/23/12 Drilling Company: GeoServ Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Direct Push	Northing: 453876.08 Easting: 13064975.35 Casing Elevation: NA Borehole Depth: 67.0' bgs Surface Elevation: 859.80 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A17-DE144 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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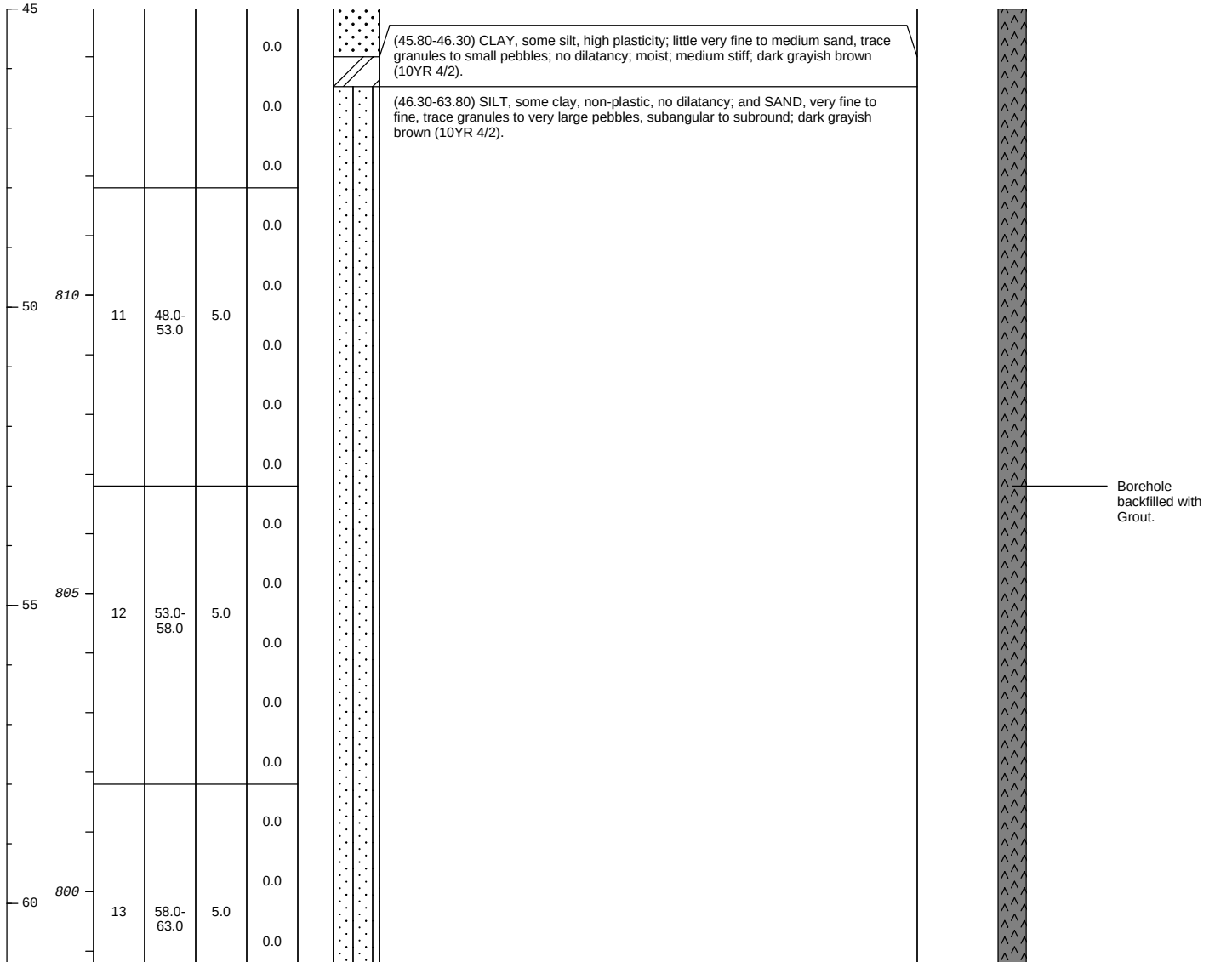
30	830	7	28.0-33.0	5.0	0.0			NOTE: laminated, 0.01' to 0.02' thick with sands. NOTE: SAND layer from 29.4'-29.55' bgs.	
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
35	825	8	33.0-38.0	5.0	0.0				
					0.0				
					0.0				
					0.0				
					0.0			(36.15-37.10) SAND, very fine to fine; well sorted; moist; light brownish gray (10YR 6/2).	
					0.0			(37.10-38.18) SILT, non-plastic, no dilatancy; some very fine to fine sand; dry; very stiff; dark grayish brown (10YR 4/2).	
					0.0				
40	820	9	38.0-43.0	2.0	0.0			(38.18-41.75) SAND, very fine to medium, trace coarse sand to granules, subangular to subrounded; some silt; poorly sorted; moist; dark grayish brown (10YR 4/2). NOTE: coarse sands from 39.45'-39.5' bgs. NOTE: wet from 40.0'-40.9' bgs.	
					0.0				
					0.0				
					0.0				
					0.0			(41.75-45.80) SAND, very fine to medium; dry; gray (10YR 6/1).	
					0.0				
					0.0				
					0.0				
45	815	10	43.0-48.0	5.0	0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-5.0', 40.0'-40.09', at 63.0' and again between 63.8'-65.2' bgs Odor detected between 1.5'-3.8' bgs Staining detected between 2.0'-3.8' bgs
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Date Start/Finish: 5/18/12-5/23/12 Drilling Company: GeoServ Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Direct Push	Northing: 453876.08 Easting: 13064975.35 Casing Elevation: NA Borehole Depth: 67.0' bgs Surface Elevation: 859.80 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A17-DE144 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-5.0', 40.0'-40.09', at 63.0' and again between 63.8'-65.2' bgs Odor detected between 1.5'-3.8' bgs Staining detected between 2.0'-3.8' bgs
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[illegible]

	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-5.0', 40.0'-40.09', at 63.0' and again between 63.8'-65.2' bgs Odor detected between 1.5'-3.8' bgs Staining detected between 2.0'-3.8' bgs
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Date Start/Finish: 5/18/12-5/22/18 Drilling Company: Stock Driller's Name: Jake B Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453867.22 Easting: 13065201.90 Casing Elevation: NA Borehole Depth: 74.5' bgs Surface Elevation: 859.10 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A17-DF167 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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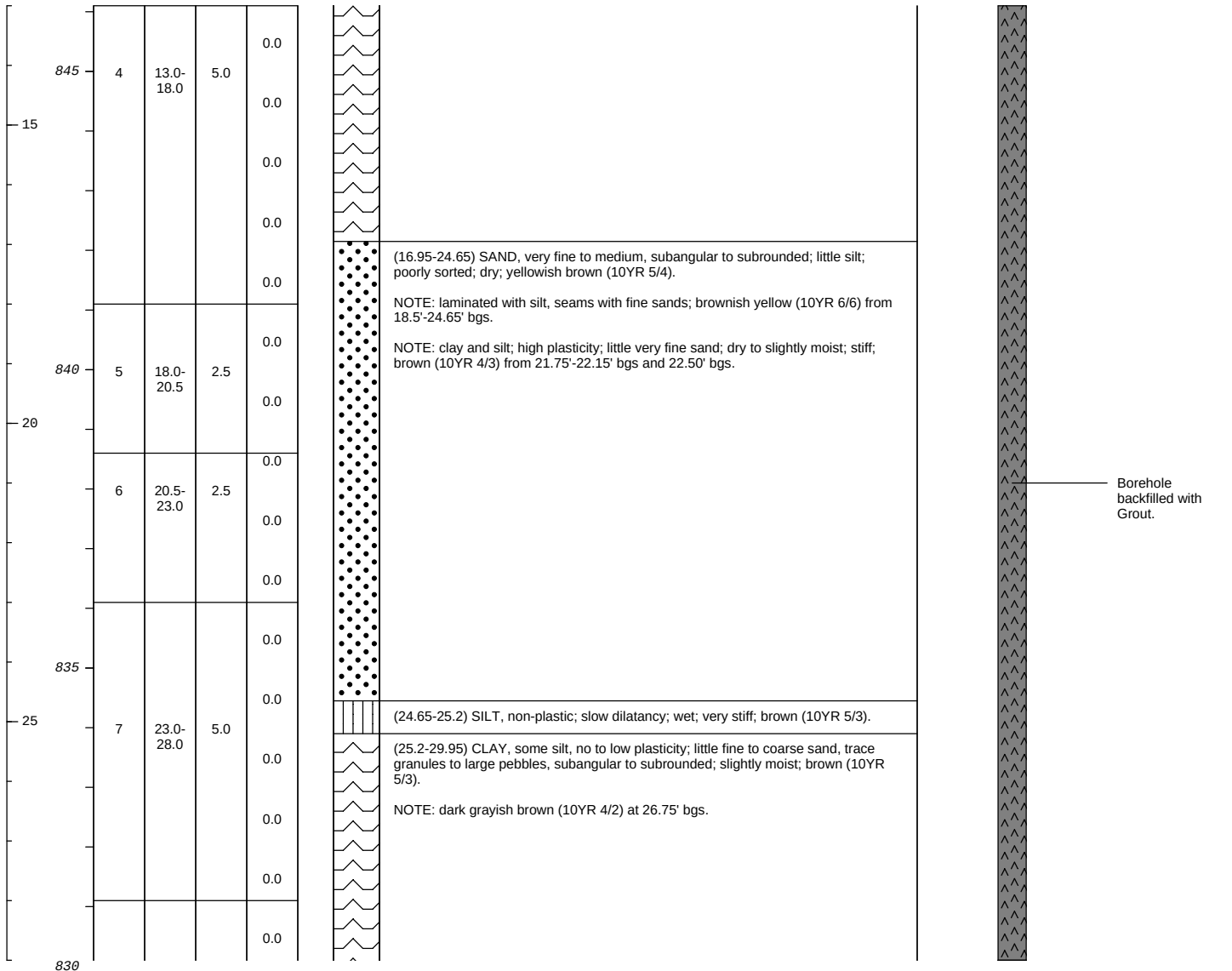
860									
0								(0.0-0.8) CONCRETE	
		1	0.0-5.0	5.0	NA			(0.8-4.2) SAND, fine to coarse, trace granules to small pebbles, subangular to subrounded; moist; brown (10YR 4/2).	
					0.0				
					0.0				
855					0.0			(4.2-5.0) CLAY, some silt, low plasticity; little fine to medium sand, trace granules to small pebbles, subangular to subrounded; dry; brown (10YR 4/3) mottled dark grayish brown (10YR 5/2).	
5		2	5.0-8.0	3.0	0.0			(5.0-16.95) CLAY, some silt, medium plasticity; little very fine to medium sand, trace granules to large pebbles, subangular to subrounded; medium stiff to stiff; dark grayish brown (10YR 4/2). NOTE: TILL.	
					0.0			NOTE: brown (10YR 4/3) at 6.3' bgs.	
					0.0			NOTE: sand seam (0.01'), fine to medium, subangular to subrounded at 6.65' bgs.	
					0.0			NOTE: sand layer, medium to coarse, subangular to subrounded; well sorted; very moist to slightly wet; brown (10YR 4/3) from 9.15'-9.3' bgs.	
850					0.0			NOTE: trace at 13.5' bgs.	
		3	8.0-13.0	5.0	0.0			NOTE: color change to brown (10YR 4/3) at 16.17' bgs.	
10					0.0				
					0.0				
					0.0				
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 9.15'-9.3', 24.65'-25.2', 31.15'-38.45', 55.2'-56.0', 58.5'-63.2' and 63.75'-69.45' bgs. No Odor or Staining detected
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Date Start/Finish: 5/18/12-5/22/18 Drilling Company: Stock Driller's Name: Jake B Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453867.22 Easting: 13065201.90 Casing Elevation: NA Borehole Depth: 74.5' bgs Surface Elevation: 859.10 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A17-DF167 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 9.15'-9.3', 24.65'-25.2', 31.15'-38.45', 55.2'-56.0', 58.5'-63.2' and 63.75'-69.45' bgs. No Odor or Staining detected
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Date Start/Finish: 5/18/12-5/22/18 Drilling Company: Stock Driller's Name: Jake B Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453867.22 Easting: 13065201.90 Casing Elevation: NA Borehole Depth: 74.5' bgs Surface Elevation: 859.10 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A17-DF167 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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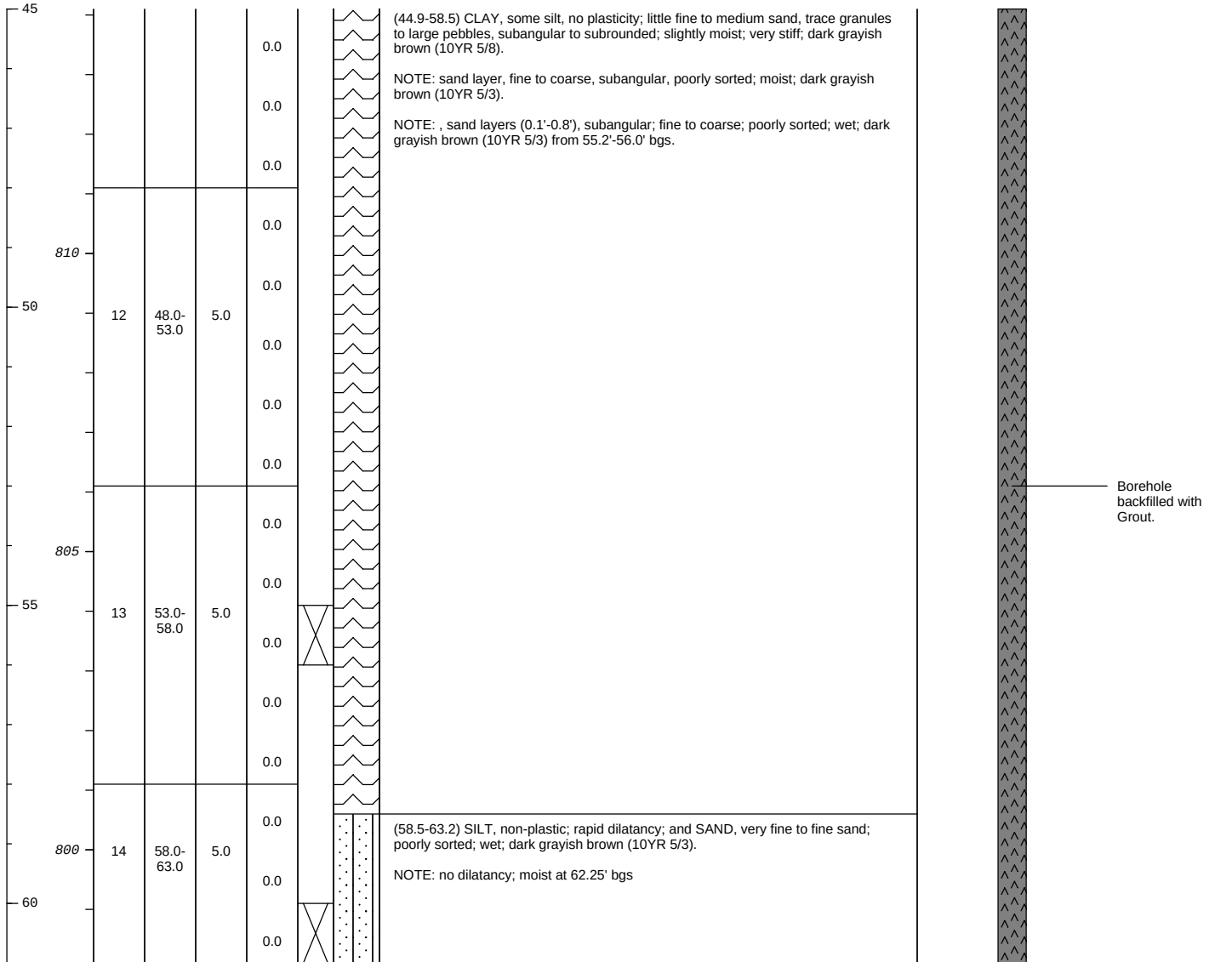
830									
30		8	28.0-33.0	4.3	0.0			(29.95-31.15) SAND, very fine to coarse; and GRAVEL, granules to lage pebbles, subangular; poorly sorted; dry; light brownish gray (10YR 6/2).	
					0.0			(31.15-31.30) SILT, some clay, low plasticity; little fine to medium sand, trace gmaules to small pebbles, subangular to subrounded; dry to moist; stiff; dark grayish brown (10YR 4/2). NOTE: slow dilatancy; wet.	
					0.0				
825					0.0			(33.0-38.45) SILT, non-plastic; slow to no dilatancy; little very fine to fine sand, trace medium to coarse sand, subangular to subrounded; wet to dry; dark grayish brown (10YR 5/2). NOTE: dry at 35.5' bgs. NOTE: laminated silt with sands from 35.5'-38.45' bgs. NOTE: sand seam, fine to medium; dry from 36.3'-36.35' bgs.	
35		9	33.0-38.0	5.0	0.0				
					0.0				
					0.0				
					0.0				
820					0.0			(38.45-44.9) SAND, very fine to fine, trace medium to coarse sand to granules, subangular to subrounded; some silt; poorly sorted;moist; drak grayish brown (10YR 4/2). NOTE: slow dilatancy from 39.65'-41.15' bgs. NOTE: sand layers, fine to coarse, subangular to subrounded; trace granules to large pebbles, subangular to subrounded; poorly osrted; dry; light brownish gray (10YR 6/2) from 41.45'-41.93', 42.10'-42.55', 42.85'-43.45' bgs. NOTE: silt layers; little fine sand from 43.45'-43.75', 44.25'-44.5' bgs NOTE: sands have pinkish color tint to them from 43.45'-44.90' bgs	
40		10	38.0-43.0	5.0	0.0				
					0.0				
					0.0				
					0.0				
815					0.0				
		11	43.0-48.0	5.0	0.0				
					0.0				
45					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 9.15'-9.3', 24.65'-25.2', 31.15'-38.45', 55.2'-56.0', 58.5'-63.2' and 63.75'-69.45' bgs. No Odor or Staining detected
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Date Start/Finish: 5/18/12-5/22/18 Drilling Company: Stock Driller's Name: Jake B Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453867.22 Easting: 13065201.90 Casing Elevation: NA Borehole Depth: 74.5' bgs Surface Elevation: 859.10 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A17-DF167 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 9.15'-9.3', 24.65'-25.2', 31.15'-38.45', 55.2'-56.0', 58.5'-63.2' and 63.75'-69.45' bgs. No Odor or Staining detected
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Date Start/Finish: 5/18/12-5/22/18 Drilling Company: Stock Driller's Name: Jake B Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453867.22 Easting: 13065201.90 Casing Elevation: NA Borehole Depth: 74.5' bgs Surface Elevation: 859.10 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A17-DF167 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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795	15	63.0-68.0	5.0	0.0				(63.2-63.75) SILT, non-plastic; no dilatancy; trace very fine sand; dry; dark grayish brown (10YR 5/3).	
				0.0				(63.75-69.45) SAND, very fine to coarse, trace granules to very large pebbles, subangular to subround; some silt; wet to moist; very dark grayish brown (10YR 3/2). NOTE: moist at 66.10' bgs	
790	16	68.0-73.0	4.0	0.0				(69.45-71.10) SILT, non-plastic, some very fine to coarse sand, trace granules to very large pebbles, subangular to subrounded; dry very stiff; very dark gray (10YR 3/1). NOTE: weathered sandstone.	
				0.0				(71.10-74.5) SHALE, with interbedded sandstone; some silt, little fine to medium sand; weathered; dry; gray (10YR 5/1) to dark grayish brown (10YR 4/2). NOTE: flaky; irradecent. NOTE: coal seam; soft; irradecent; black from 72.45'-72.65' bgs	
785	17	73.0-74.5	1.5						
75								End of boring at 74.5' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 9.15'-9.3', 24.65'-25.2', 31.15'-38.45', 55.2'-56.0', 58.5'-63.2' and 63.75'-69.45' bgs. No Odor or Staining detected
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Date Start/Finish: 5/24/12 Drilling Company: GeoServ Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453638.93 Easting: 13064971.21 Casing Elevation: NA Borehole Depth: 80.0' bgs Surface Elevation: 863.46 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A17-EC144 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
		1	0.0-5.0	5.0	NA			(0.0-1.0) CONCRETE	
					0.0			(1.0-12.0) SAND, very fine to medium, trace coarse sand to granules, subangular to subround; moist; dark grayish brown (10YR 5/2).	
					0.0			NOTE: odor.	
860					0.0				
5					0.0				
		2	5.0-8.0	1.0					
					0.0				
					0.0			NOTE: trace small to very large pebbles at 7.0' bgs.	
					0.0				
855					0.0				
10					0.0				
		3	8.0-13.0	2.5					
					0.0				
					0.0			NOTE: fine to very coarse sand at 11.0' bgs.	
					0.0				
					0.0			(12.0-14.10) CLAY, some silt, high plasticity; some very fine to medium sand, trace granules to small pebbles, subangular to subround; no dilatancy; moist; soft; dark grayish brown (10YR 4/2).	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 13.80'-13.90', 16.56'-16.65', 42.1'-43.0' and 74.50'-77.20' bgs Odor detected between 1.0'-16.65' bgs No Staining detected
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Date Start/Finish: 5/24/12 Drilling Company: GeoServ Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453638.93 Easting: 13064971.21 Casing Elevation: NA Borehole Depth: 80.0' bgs Surface Elevation: 863.46 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A17-EC144 Client: RACER Trust Location: Lansing, MI
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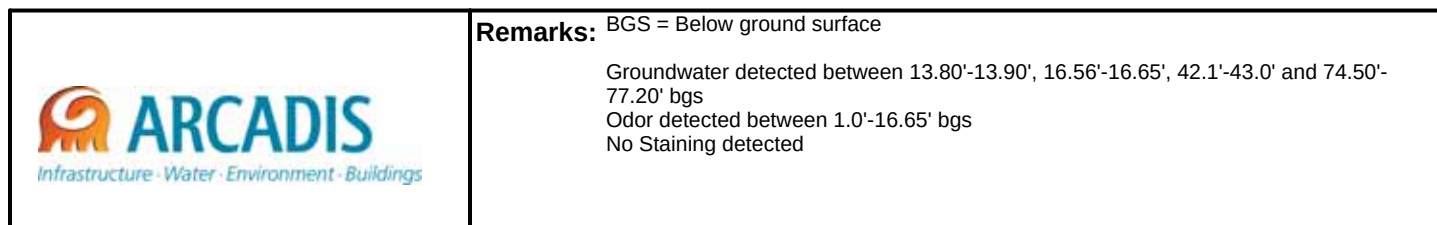
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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850					0.0			NOTE: odor.	
					0.0			NOTE: fine to coarse sand layer; wet from 13.8'13.9' bgs.	
15		4	13.0-18.0	5.0	0.0			(14.10-16.56) SILT, non plastic; some very fine sand, little coarse sand to small pebbles; no dilatancy; dry; very stiff; dark grayish brown (10YR 4/2).	
					0.0			NOTE: slight odor.	
					0.0			(16.56-16.65) SAND, medium to very coarse, subangular to subround; wet; dark grayish brown (10YR 4/2).	
					0.0			NOTE: very strong odor.	
					0.0			(16.65-18.0) CLAY, some silt, medium plasticity; some fine to medium sand, trace granules to small pebbles, subangular to subround; moist; medium stiff; dark grayish brown (10YR 4/2).	
845		5	18.0-20.0	0.0	NA			(18.0-21.0) No Recovery NOTE: set 4.0'/2.0" temp casing.	
					NA				
20		6	20.0-21.0	0.0	NA				
								(21.0-22.75) SILT, non plastic; little very fine sand; no dilatancy; dry; very soft; brown (10YR 4/2).	
		7	21.0-23.25	2.25	0.0				
					0.0				
840					0.0			(22.75-23.80) SAND, fine to medium, subangular to subround; well sorted; dry; brown (10YR 4/3).	
					0.0			(23.80-27.75) SILT, non plastic; little very fine to fine sand; poorly sorted; no dilatancy; dry; yellowish brown (10YR 5/6).	
25		8	23.25-28.25	5.0	0.0			NOTE: laminated; 0.01' to 0.03' sand; yellowish brown (10YR 5/8).	
					0.0			NOTE: sand seams; dry; pale brown (10YR 6/3) from 25.2'-25.25', 26.55'-26.6', and 27.0'-27.05' bgs.	
					0.0				
					0.0				
835					0.0			(27.75-37.75) CLAY, some silt, low plasticity, some very fine to medium sand, trace coarse sands to small pebbles, subangular to subround; no dilatancy; dry to slightly moist; medium stiff; dark grayish brown (10YR 4/2).	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 13.80'-13.90', 16.56'-16.65', 42.1'-43.0' and 74.50'-77.20' bgs Odor detected between 1.0'-16.65' bgs No Staining detected
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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Date Start/Finish: 5/24/12 Drilling Company: GeoServ Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453638.93 Easting: 13064971.21 Casing Elevation: NA Borehole Depth: 80.0' bgs Surface Elevation: 863.46 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A17-EC144 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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45		13	43.25-48.25	5.0	0.0			(45.2-46.2) SAND, very fine to fine; little silt; dry; gray (10YR 5/1).	
					0.0			(46.2-48.45) SAND, very fine to medium, little granules to medium pebbles, subangular to subround; little silt; poorly sorted; slightly moist; dark grayish brown (10YR 4/2).	
					0.0				
815					0.0			(48.45-52.45) SAND, very fine to medium, little granules to medium pebbles, subangular to subround; some silt; poorly sorted; slightly moist; dark grayish brown (10YR 4/2).	
					0.0				
50		14	48.25-53.25	5.0	0.0			NOTE: very fine to medium sand layer, subangular; poorly sorted; moist; grayish brown (10YR 5/2) from 52.0'-52.45' bgs.	
					0.0			(52.45-53.75) CLAY, some silt, non plastic; some fine to medium sand, little very coarse sand to medium pebbles; no dilatancy; moist; stiff; dark grayish brown (10YR 4/2).	
810					0.0			(53.75-72.35) SILT, some clay, non plastic; and SAND, very fine to fine, trace granules to very large pebbles, subangular to subround; no dilatancy; dry to moist; hard; dark grayish brown (10YR 4/2). NOTE: TILL.	
					0.0			NOTE: very fine to fine sand seam and layer; well sorted; moist; brown (10YR 5/3) from 54.8'-54.85' and 57.35'-57.55' bgs.	
55		15	53.25-58.25	5.0	0.0				
					0.0				
					0.0				
805					0.0				
					0.0				
60		16	58.25-63.25	5.0	0.0			NOTE: low plasticity at 60.0' bgs.	
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 13.80'-13.90', 16.56'-16.65', 42.1'-43.0' and 74.50'-77.20' bgs Odor detected between 1.0'-16.65' bgs No Staining detected
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Date Start/Finish: 5/24/12 Drilling Company: GeoServ Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453638.93 Easting: 13064971.21 Casing Elevation: NA Borehole Depth: 80.0' bgs Surface Elevation: 863.46 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A17-EC144 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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800	65	17	63.25-68.25	5.0	0.0				
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
795	70	18	68.25-73.25	5.0	0.0				
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
790					0.0			(72.35-74.50) SILT, non plastic; some very fine to fine sand; no dilatancy; dry; very stiff.	
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
75		19	73.25-78.25	5.0	0.0			(74.50-77.20) SAND, very fine to coarse, some granules to very large pebbles, subangular; some silt; wet; dark grayish brown (10YR 4/2).	
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				

	Remarks: BGS = Below ground surface Groundwater detected between 13.80'-13.90', 16.56'-16.65', 42.1'-43.0' and 74.50'-77.20' bgs Odor detected between 1.0'-16.65' bgs No Staining detected
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Date Start/Finish: 5/24/12 Drilling Company: GeoServ Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453638.93 Easting: 13064971.21 Casing Elevation: NA Borehole Depth: 80.0' bgs Surface Elevation: 863.46 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A17-EC144 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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785				0.0				(77.20-79.60) SILT, nonplastic, no dilatancy; and SAND, very fine to fine, trace small to large pebbles, subangular to subround; moist; dark grayish brown (10YR 4/3). NOTE: small cobble (weathered bedrock) at 77.8' bgs.	
	20	78.25-80.0	1.75	0.0				(79.60-80) SANDSTONE/SHALE, weathered. NOTE: coal seam from 79.6'-79.7' bgs.	
80				0.0				End of Boring 80.0' bgs	Borehole backfilled with Grout.
780									
85									
775									
90									

	Remarks: BGS = Below ground surface Groundwater detected between 13.80'-13.90', 16.56'-16.65', 42.1'-43.0' and 74.50'-77.20' bgs Odor detected between 1.0'-16.65' bgs No Staining detected
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Date Start/Finish: 5/17/12-5/18/12 Drilling Company: GeoServ Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 454023.96 Easting: 13064977.70 Casing Elevation: NA Borehole Depth: 72.9' bgs Surface Elevation: 863.51 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A18-CP144 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
		1	0.0-5.0	5.0	NA			(0.0-0.75) CONCRETE	
					0.0			(0.75-3.5) SAND, very fine to medium, little granules to small pebbles, subangular to subrounded; some silt; poorly sorted; dry; brown (10YR 4/3). NOTE: FILL.	
860					0.0				
					0.0			(3.5-5.0) CLAY, some silt, low to medium plasticity; little very fine to fine sand, subangular to subrounded; dry; soft; brown (10YR 4/3). NOTE: gray (10YR 6/1) mottling at 4.3' bgs.	
5		2	5.0-8.0	3.0	0.0			(5.0-12.62) CLAY, some silt, no to low plasticity; little very fine to coarse sand, trace granules to large pebbles, subrounded to subangular; dry; stiff to very stiff; brown(10YR 4/3).	
					0.0				
					0.0				
855					0.0				
					0.0			NOTE: medium to coarse sand seam, subangular; moist; pale brown (10YR 6/3); form 9.45'-9.51' bgs. NOTE: high plasticity; very soft to soft; moist; from 9.51'-12.6' bgs.	
10		3	8.0-13.0	5.0	0.0				
					0.0				
					0.0			NOTE: medium to coarse sand seam, subangular; moist; pale brown (10YR 6/3); from 11.3'-11.33' bgs.	
					0.0				
					0.0			NOTE: very fine to fine sand seam; dry; brown (10YR 4/3); from 12.6'-12.62' bgs.	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 27.19'-27.35', at 62.90', between 65.0'-65.9' nad 68.35'-69.75' bgs No Odor or Staining detected
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Date Start/Finish: 5/17/12-5/18/12 Drilling Company: GeoServ Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 454023.96 Easting: 13064977.70 Casing Elevation: NA Borehole Depth: 72.9' bgs Surface Elevation: 863.51 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A18-CP144 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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850					0.0			(12.62-23.3) CLAY, some silt, medium plasticity; little very fine to fine sand, trace granules to very large pebbles; slightly moist; stiff; drak grayish brown (10YR 4/2).	
15		4	13.0-18.0	4.0	0.0				
					0.0				
					0.0				
					0.0				
845					0.0				
					0.0				
20		5	18.0-23.0	5.0	0.0				
					0.0				
					0.0				
					0.0				
840					0.0			NOTE: sand parting, very fine, brown (10YR 4/3); at 22.69' bgs.	
					0.0			(23.3-27.19) SILT, some sand, very fine to medium, trace granules to small pebbles, subangular to subround; no to slow dilatancy; slight moist to moist; very stiff; brown (10YR 4/3). NOTE: lacustrine, laminated 0.02'-0.05' sand seams, very fine to medium, subangular to subrounded; moist; brown (10YR 4/3).	
25		6	23.0-28.0	5.0	0.0				
					0.0				
					0.0			(27.19-27.35) SAND, very fine to coarse, little granules to small pebbles, subangular to subrounded; poorly sorted; wet; brown (10YR 4/3).	
					0.0			(27.35-30.0) No Recovery. Chekced hole for groundwater - none, dry.	
835					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 27.19'-27.35', at 62.90', between 65.0'-65.9' nad 68.35'-69.75' bgs No Odor or Staining detected
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Date Start/Finish: 5/17/12-5/18/12 Drilling Company: GeoServ Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 454023.96 Easting: 13064977.70 Casing Elevation: NA Borehole Depth: 72.9' bgs Surface Elevation: 863.51 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A18-CP144 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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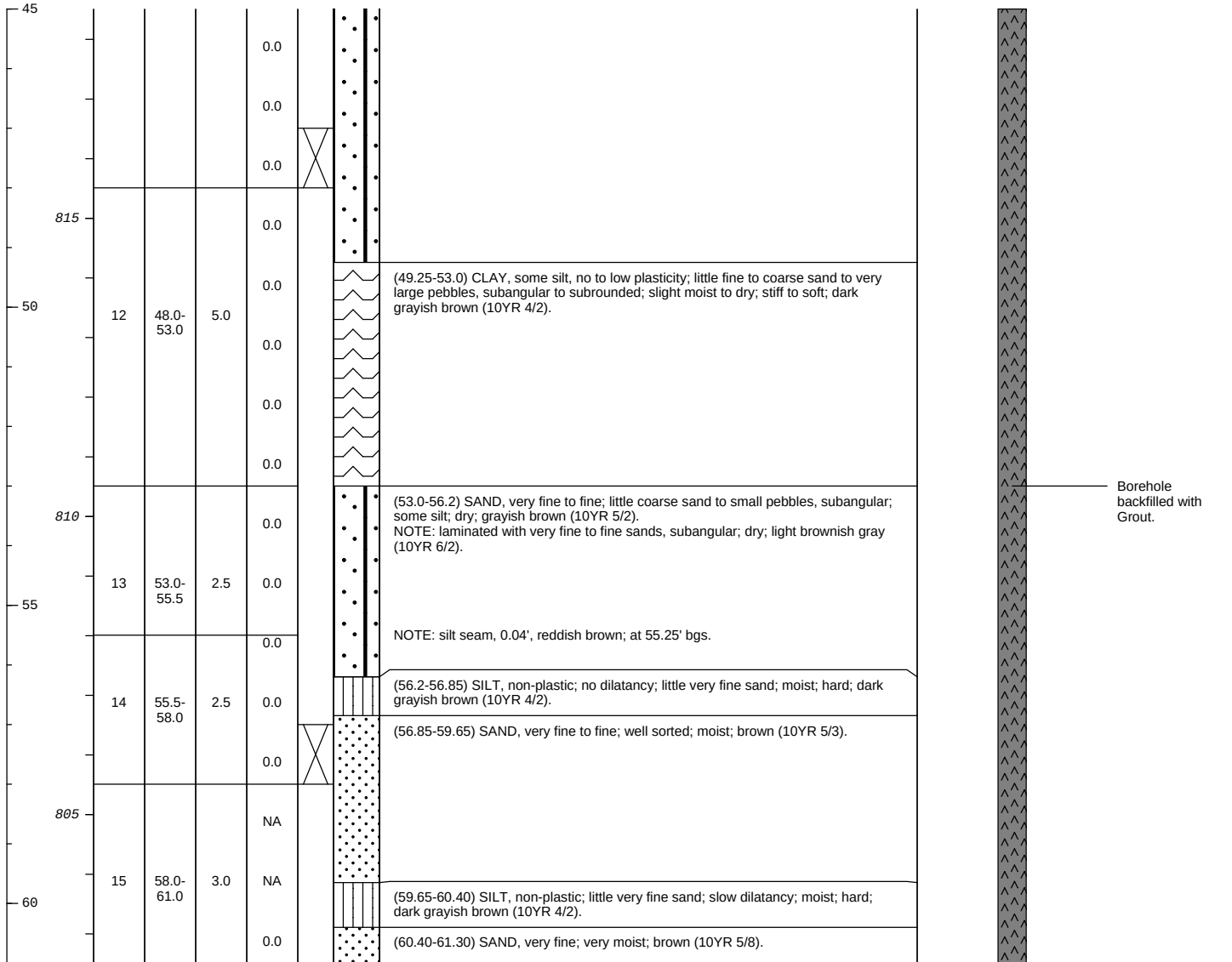
30		7	28.0-33.0	5.0	0.0			(30.0-33.5) CLAY, some silt, medium to high plasticity; some fine to coarse sand, trace granules to small pebbles; slight moist; dark grayish brown (10YR 4/2). NOTE: decreasing sand grain size with depth.	
					0.0				
					0.0				
					0.0				
830		8	33.0-35.5	2.5	0.0			(33.5-41.85) SAND, fine to coarse, subangular to subrounded; poorly sorted; dry; grayish brown (10YR 5/2). NOTE: increase medium to coarse content with depth.	
					0.0				
35					0.0			NOTE: very fine; well sorted; at 35.5' bgs.	
		9	35.5-38.0	2.5	0.0				
					0.0				
825					0.0				
					0.0				
40		10	38.0-43.0	5.0	0.0			NOTE: little silt, laminated; at 40.04' bgs.	
					0.0				
					0.0			(41.85-42.26) CLAY, some silt, medium plasticity; little very fine sand, trace granules to small pebbles; dry; medium stiff; dark grayish brown (10YR 4/2).	
					0.0			(42.26-43.15) SAND, fine to coarse, and GRAVEL, granules to very large pebbles, subangular; poorly sorted; dry; grayish brown (10YR 5/2).	
820					0.0			(43.15-49.25) SAND, very fine to fine, little coarse sand to small pebbles, subangular; some silt; dry; grayish brown (10YR 5/2). NOTE: laminated with very fine to medium sands, subangular; dry; light brownish gray (10YR 6/2); from 43.15'-46.15' bgs.	
		11	43.0-48.0	5.0	0.0				
					0.0				
45									

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 27.19'-27.35', at 62.90', between 65.0'-65.9' nad 68.35'-69.75' bgs No Odor or Staining detected
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Date Start/Finish: 5/17/12-5/18/12 Drilling Company: GeoServ Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 454023.96 Easting: 13064977.70 Casing Elevation: NA Borehole Depth: 72.9' bgs Surface Elevation: 863.51 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A18-CP144 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 27.19'-27.35', at 62.90', between 65.0'-65.9' nad 68.35'-69.75' bgs No Odor or Staining detected
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Date Start/Finish: 5/17/12-5/18/12 Drilling Company: GeoServ Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 454023.96 Easting: 13064977.70 Casing Elevation: NA Borehole Depth: 72.9' bgs Surface Elevation: 863.51 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A18-CP144 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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800		16	61.0-63.0	2.0	0.0			(61.30-67.70) SAND, very fine; and SILT, non-plastic, no dilatancy; very moist; laminated; brown (10YR 5/3) to dark grayish brown (10YR 4/2).	
					0.0			NOTE: rapid dilatancy; wet; at 62.90' bgs.	
65		17	63.0-68.0	5.0	0.0			NOTE: stratified: CLAY layers, some silt, non-plastic; no dilatancy; dry; very stiff; dark grayish brown (10YR 4/2); from 63.5'-63.8', 64.5'-64.6', 64.8'-65.0', 65.90'-65.98', 66.30'-66.40' and at 67.30' and 67.70' bgs.	
					0.0			NOTE: high plasticity; rapid dilatancy; wet; from 65.0'-65.9' bgs.	
795					0.0			(67.70-72.90) SILT, no plasticity; little very fine sand, trace coarse sand; moist; very stiff; dark grayish brown (10YR 4/2).	
					0.0			NOTE: high plasticity; rapid dilatancy; very moist to wet; soft; from 68.36'-69.75' bgs.	
70		18	68.0-72.9	4.9	0.0				
					0.0				
					0.0				
					0.0				
790								End of boring at 72.9' bgs	
75									

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 27.19'-27.35', at 62.90', between 65.0'-65.9' nad 68.35'-69.75' bgs No Odor or Staining detected
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Date Start/Finish: 6/6/2012 - 6/7/2012 Drilling Company: Geoserv Driller's Name: Emrick Drilling Method: Direct Push Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452784.67 Easting: 13065038.90 Casing Elevation: NA Borehole Depth: 72.5' bgs Surface Elevation: 863.49 Descriptions By: M. Hicks	Well/Boring ID: VAP-A19-HJ150 Client: RACER Trust Location: Lansing, MI
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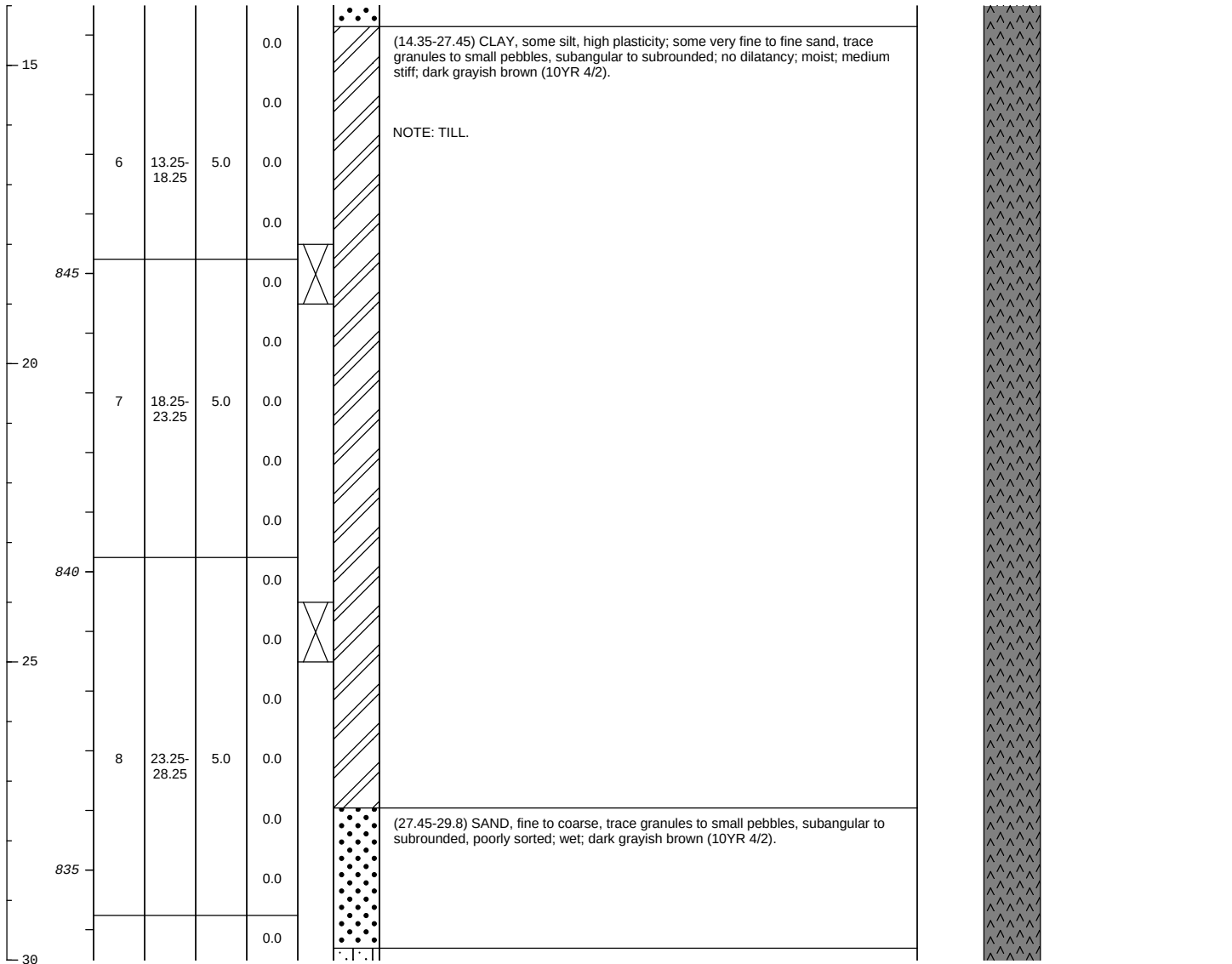
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0		1	0.0-1.0	1.0	0.0			(0.0-1.0) CONCRETE	
		2	1.0-3.0	2.0	0.0			(0.1-3.0) SAND, very fine; little silt; moist; very dark gray (10YR 3/1). NOTE: FILL.	
860		3	3.0-7.0	0.0	0.0			(3.0-7.0) CONCRETE	
5		4	7.0-8.25	0.5	0.2			(7.0-13.4) CLAY, some silt, high plasticity; little fine sand, trace granules to small pebbles; moist; medium stiff; brown (10YR 4/3) mottled dark grayish brown (10YR 4/2).	
855		5	8.25-13.25	5.0	0.0			NOTE: increasing sands at 12.6' bgs.	
10					0.0			(13.4-14.35) SAND, fine to coarse, little granules to medium pebbles, subangular to subrounded; poorly sorted; wet; dark grayish brown (10YR 4/2).	
850					0.0				

	Remarks: BGS = Below ground surface Groundwater encountered from 27.45-31.80' and 32.48-32.63' bgs No Odor or Staining detected Groundwater Sample collected from 13.5-14.5' bgs, and 27-28' bgs
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Date Start/Finish: 6/6/2012 - 6/7/2012 Drilling Company: Geoserv Driller's Name: Emrick Drilling Method: Direct Push Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452784.67 Easting: 13065038.90 Casing Elevation: NA Borehole Depth: 72.5' bgs Surface Elevation: 863.49 Descriptions By: M. Hicks	Well/Boring ID: VAP-A19-HJ150 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater encountered from 27.45-31.80' and 32.48-32.63' bgs No Odor or Staining detected Groundwater Sample collected from 13.5-14.5' bgs, and 27-28' bgs
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Date Start/Finish: 6/6/2012 - 6/7/2012 Drilling Company: Geoserv Driller's Name: Emrick Drilling Method: Direct Push Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452784.67 Easting: 13065038.90 Casing Elevation: NA Borehole Depth: 72.5' bgs Surface Elevation: 863.49 Descriptions By: M. Hicks	Well/Boring ID: VAP-A19-HJ150 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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30		9	28.25-33.25	5.0	0.0			(29.80-31.30) SILT, non plastic, rapid dilatancy; and SAND, very fine to fine; wet; dark grayish brown (10YR 4/2).	
					0.0			(31.30-33.60) CLAY, some silt, medium plasticity; some very fine to medium sand, trace granules to small pebbles, subangular to subrounded; no dilatancy; moist; medium stiff, dark grayish brown (10YR 4/2).	
					0.0			NOTE: very fine to fine sand; some silt; wet from 32.58'-32.63' bgs.	
830					NA			(33.60-44.0) SILT, nonplastic; some very fine sand; no dilatancy; slightly moist; stiff, dark grayish brown (10YR 4/2).	
					NA			NOTE: laminated sand, 0.01-0.03 ft thick	
35					NA				
		10	33.25-38.25	2.0	NA				
					NA				
825					NA				
					NA				
40		11	38.25-43.25	3.25	NA			(41.0-57.70) SAND, fine to coarse, trace granules to small pebbles, subangular to subround; poorly sorted; dry; grayish brown (10YR 5/2).	
					NA				
					NA				
820					NA				
					NA				
45					NA			NOTE: silt layers, non plastic, no dilatancy; dry; dark grayish brown (10YR 4/2) from 41.25'-41.45', 43.2'-43.45', and 47.6'-47.7' bgs.	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater encountered from 27.45-31.80' and 32.48-32.63' bgs No Odor or Staining detected Groundwater Sample collected from 13.5-14.5' bgs, and 27-28' bgs
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Date Start/Finish: 6/6/2012 - 6/7/2012 Drilling Company: Geoserv Driller's Name: Emrick Drilling Method: Direct Push Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452784.67 Easting: 13065038.90 Casing Elevation: NA Borehole Depth: 72.5' bgs Surface Elevation: 863.49 Descriptions By: M. Hicks	Well/Boring ID: VAP-A19-HJ150 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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815	50	12	43.25-48.25	3.5	NA				
					NA				
					NA				
		13	48.25-53.25	3.5	NA				
					NA				
					NA				
810					NA				
					NA				
	55				NA				
		14	53.25-58.25	3.5	NA				
					NA				
805					NA				
					NA				
60		15	58.25-62.25	3.5	NA				
					NA				

	Remarks: BGS = Below ground surface Groundwater encountered from 27.45-31.80' and 32.48-32.63' bgs No Odor or Staining detected Groundwater Sample collected from 13.5-14.5' bgs, and 27-28' bgs
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Date Start/Finish: 6/6/2012 - 6/7/2012 Drilling Company: Geoserv Driller's Name: Emrick Drilling Method: Direct Push Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 452784.67 Easting: 13065038.90 Casing Elevation: NA Borehole Depth: 72.5' bgs Surface Elevation: 863.49 Descriptions By: M. Hicks	Well/Boring ID: VAP-A19-HJ150 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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800					NA				
65					NA				
		16	62.25-68.25	5	NA				
					NA				
795					NA				
70		17	68.25-72.50	NA	NA				
					NA				
					NA				
								(71.60-72.50) SHALE and SANDSTONE, medium to large pebbles, subangular; weathered; little black coal fragments; silt; hard.	
790								End of boring at 72.5' bgs.	
75									

	Remarks: BGS = Below ground surface Groundwater encountered from 27.45-31.80' and 32.48-32.63' bgs No Odor or Staining detected Groundwater Sample collected from 13.5-14.5' bgs, and 27-28' bgs
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Date Start/Finish: 6/7/12 Drilling Company: GeoServ Driller's Name: Emrick / Dean Drilling Method: Direct Push Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453285.59 Easting: 13063538.82 Casing Elevation: NA Borehole Depth: 48.0' bgs Surface Elevation: 861.60 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A20-FL0 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860					NA			(0.0-23.25) No Recovery. NOTE: blind drilled.	
					NA				
					NA				
					NA				
5					NA				
		1	0.0-23.25	0.0	NA				
855					NA				
					NA				
					NA				
					NA				
10					NA				
					NA				
850					NA				
					NA				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface No Groundwater detected No Odor detected No Staining detected
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Date Start/Finish: 6/7/12 Drilling Company: GeoServ Driller's Name: Emrick / Dean Drilling Method: Direct Push Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453285.59 Easting: 13063538.82 Casing Elevation: NA Borehole Depth: 48.0' bgs Surface Elevation: 861.60 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A20-FL0 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15					NA				
	845				NA				
					NA				
					NA				
					NA				
					NA				
20					NA				
					NA				
	840				NA				
					NA				
					0.0	X		(23.25-27.85) CLAY, some silt, high plasticity; little very fine to fine sand, trace granules to small pebbles, subangular to subround; no dilatancy; moist; stiff; dark grayish brown (10YR 4/2). NOTE: TILL.	
25		2	23.25-28.25	5.0	0.0				
	835				0.0				
					0.0				
					0.0			(27.85-38.4) SAND, very fine to fine; little silt; moist; brown (10YR 5/3).	
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface No Groundwater detected No Odor detected No Staining detected
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Date Start/Finish: 6/7/12 Drilling Company: GeoServ Driller's Name: Emrick / Dean Drilling Method: Direct Push Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453285.59 Easting: 13063538.82 Casing Elevation: NA Borehole Depth: 48.0' bgs Surface Elevation: 861.60 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A20-FL0 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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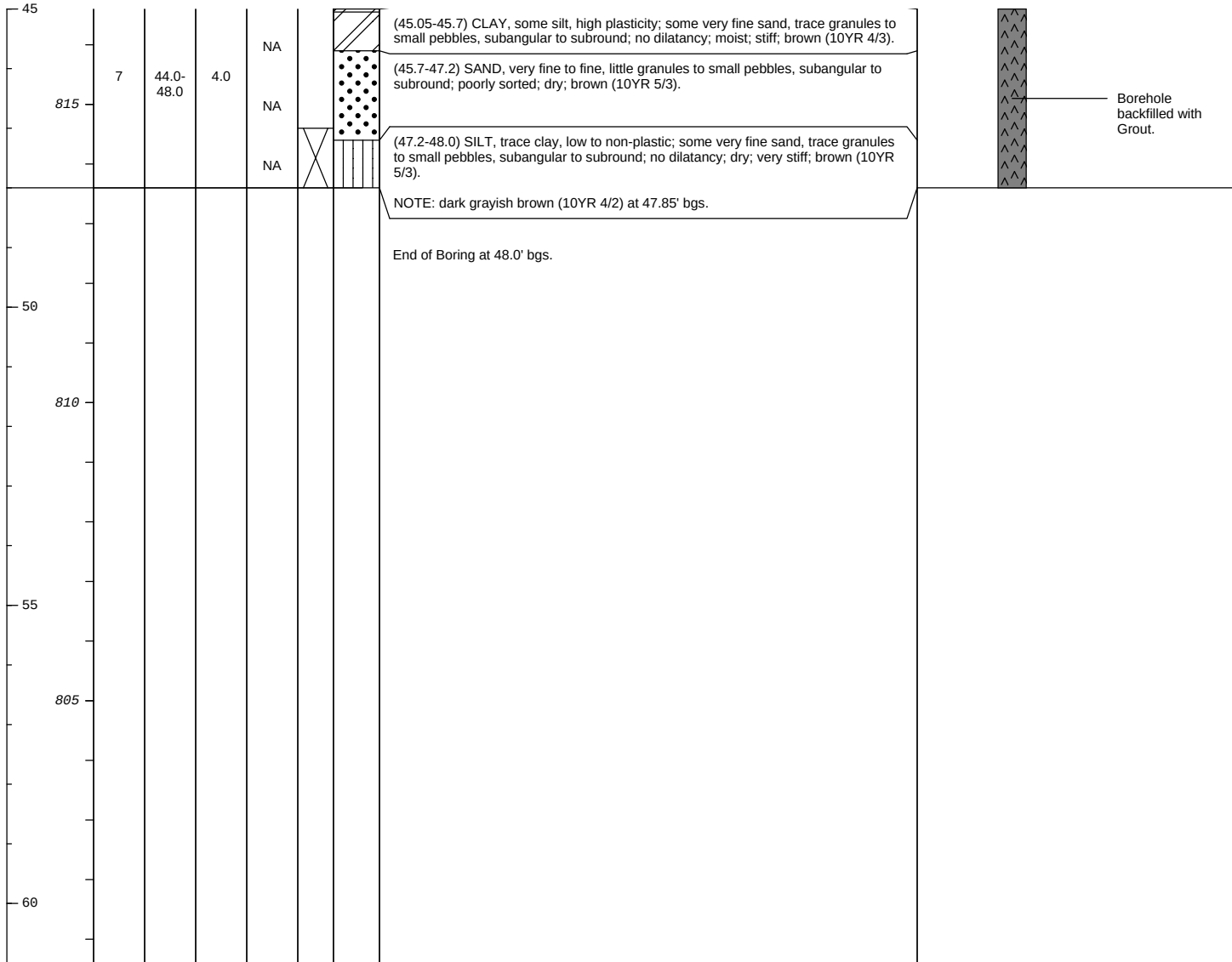
30		3	28.25-33.25	5.0	0.0			NOTE: little granules to large pebbles, subangular to subround; dry; from 30.75'-34.6' bgs.	
830					0.0				
					0.0				
					0.0				
		4	33.25-36.0		1.8			NOTE: moist at 33.5' bgs.	
35					3.2				
					1.7				
825		5	36.0-40.0		1.2			NOTE: little granules to large pebbles, subangular to subround; dry; at 36.0' bgs.	
					0.0				
					0.0				
					0.0			(38.4-39.6) SAND, very fine to fine; some silt; dry; brown (10YR 5/3).	
40					0.0			NOTE: dark grayish brown (10YR 4/2) from 39.1'-39.15' bgs.	
								NOTE: laminated fine sand, 0.05'-0.1' thick.	
					0.0			(39.6-45.05) SAND, very fine to fine; well sorted; dry; brown (10YR 5/3).	
820					0.0			NOTE: silt, non-plastic from 41.1'-41.2' bgs.	
		6	40.0-44.0	4.0	0.0			NOTE: silt, 0.03' thick at 41.75' bgs.	
					0.0				
					0.0			NOTE: trace coarse sand to small pebbles, subangular to subround at 43.0' bgs.	
45					NA				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface No Groundwater detected No Odor detected No Staining detected
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Date Start/Finish: 6/7/12 Drilling Company: GeoServ Driller's Name: Emrick / Dean Drilling Method: Direct Push Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 453285.59 Easting: 13063538.82 Casing Elevation: NA Borehole Depth: 48.0' bgs Surface Elevation: 861.60 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A20-FL0 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface No Groundwater detected No Odor detected No Staining detected
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Date Start/Finish: 9.13.12 Drilling Company: GeoServ Driller's Name: Dean G. Drilling Method: HA to 5.5' then Direct Push Sampling Method: Acetate Liners Rig Type: Direct Push	Northing: 450797.9344 Easting: 13064191.23 Casing Elevation: NA Borehole Depth: 58.25' bgs Surface Elevation: 861.67 Descriptions By: Colleen Barton	Well/Boring ID: VAP-A2-PA66 Client: RACER Location: RACER Lansing Plant 2 2800 West Saginaw Hwy. Lansing, MI 48909
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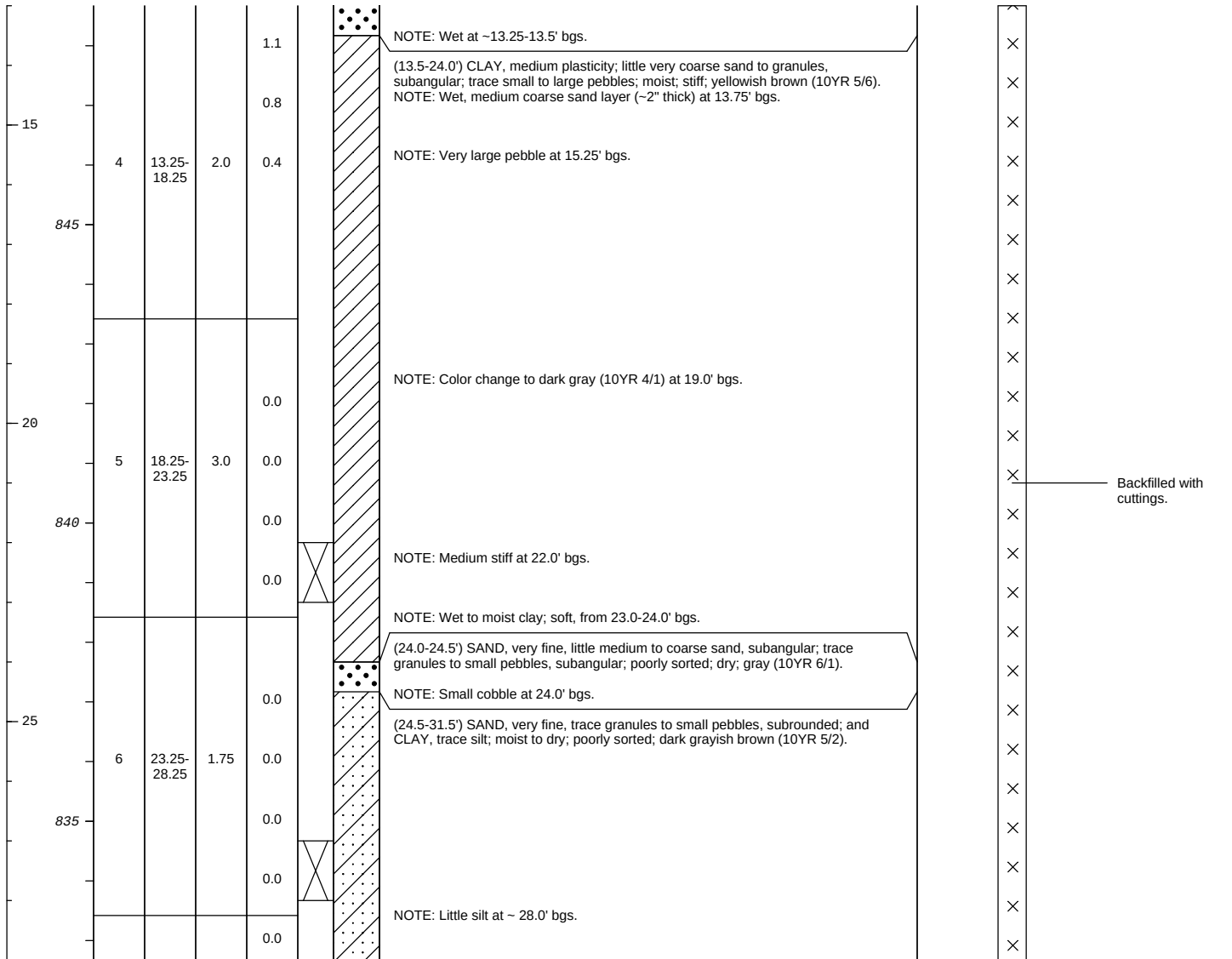
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860		1	0.0-5.5	1.0	NA			(0.0-0.85') CONCRETE.	Concrete
					NA			(0.85-3.0') CLAY, high plasticity; trace fine sand; moist; medium stiff; dark yellowish brown (10YR 4/4).	
					NA				
					NA			(3.0-8.25') SAND, very fine to fine, trace medium sand to granules, subangular; little clay; poorly sorted; dry; yellowish brown (10YR 5/4).	
5					NA				
855		2	5.5-8.25	0.5	0.2				
					NA				
					NA				
10					0.5			(8.25-11.0') CLAY, medium plasticity; some very fine to fine sand, little granules to small pebbles, subangular; moist; stiff; yellowish brown (10YR 5/4).	
					1.5				
850		3	8.25-13.25	4.0	1.7				
					NA			(11.0-13.5') SAND, very fine to fine, little medium to coarse sand, subangular; little silt; poorly sorted; moist; yellowish brown (10YR 5/6).	
					1.8				

	Remarks: bgs = below ground surface Groundwater encountered from 13.25-13.5, at 13.75, from 23.0-24.0, from 29.0-31.0, at 42.75, from 48.25-49.5, and from 53.25-57.25. No odor or staining observed.
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Date Start/Finish: 9.13.12 Drilling Company: GeoServ Driller's Name: Dean G. Drilling Method: HA to 5.5' then Direct Push Sampling Method: Acetate Liners Rig Type: Direct Push	Northing: 450797.9344 Easting: 13064191.23 Casing Elevation: NA Borehole Depth: 58.25' bgs Surface Elevation: 861.67 Descriptions By: Colleen Barton	Well/Boring ID: VAP-A2-PA66 Client: RACER Location: RACER Lansing Plant 2 2800 West Saginaw Hwy. Lansing, MI 48909
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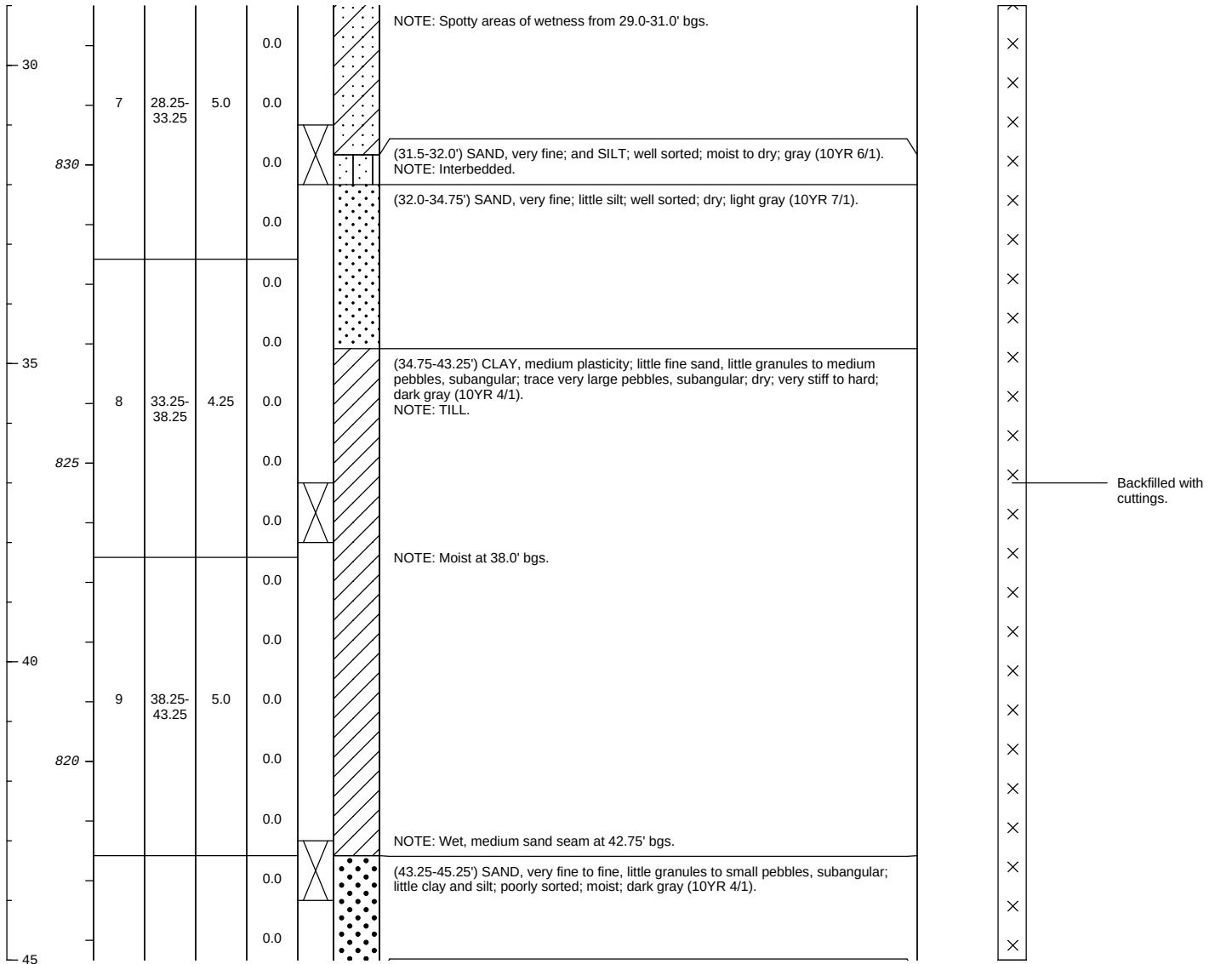
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: bgs = below ground surface Groundwater encountered from 13.25-13.5, at 13.75, from 23.0-24.0, from 29.0-31.0, at 42.75, from 48.25-49.5, and from 53.25-57.25. No odor or staining observed.
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Date Start/Finish: 9.13.12 Drilling Company: GeoServ Driller's Name: Dean G. Drilling Method: HA to 5.5' then Direct Push Sampling Method: Acetate Liners Rig Type: Direct Push	Northing: 450797.9344 Easting: 13064191.23 Casing Elevation: NA Borehole Depth: 58.25' bgs Surface Elevation: 861.67 Descriptions By: Colleen Barton	Well/Boring ID: VAP-A2-PA66 Client: RACER Location: RACER Lansing Plant 2 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: bgs = below ground surface Groundwater encountered from 13.25-13.5, at 13.75, from 23.0-24.0, from 29.0-31.0, at 42.75, from 48.25-49.5, and from 53.25-57.25. No odor or staining observed.
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Date Start/Finish: 9.13.12 Drilling Company: GeoServ Driller's Name: Dean G. Drilling Method: HA to 5.5' then Direct Push Sampling Method: Acetate Liners Rig Type: Direct Push	Northing: 450797.9344 Easting: 13064191.23 Casing Elevation: NA Borehole Depth: 58.25' bgs Surface Elevation: 861.67 Descriptions By: Colleen Barton	Well/Boring ID: VAP-A2-PA66 Client: RACER Location: RACER Lansing Plant 2 2800 West Saginaw Hwy. Lansing, MI 48909
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column		
								Stratigraphic Description	Well/Boring Construction

45	815	10	43.25-48.25	5.0	0.0		(45.25-45.75') CLAY, medium to low plasticity; little fine sand, little granules to small pebbles, angular; moist to dry; very stiff; dark gray (10YR 4/1).								
0.0					NOTE: Medium to very coarse sand seam at 45.3' bgs.										
0.0					(45.75-46.25') SAND, very fine to fine; trace silt; well sorted; moist; light gray (10YR 4/2).										
0.0					(46.25-48.25') CLAY, medium plasticity; little fine sand, little very coarse sand to granules, angular; trace small to medium pebbles, subangular; dry; hard; dark gray (10YR 4/1).										
50	810	11	48.25-53.25	5.0	0.0				(48.25-49.5') SAND, very fine to fine, little granules to medium pebbles, subangular; little silt and clay; moist to wet; poorly sorted; dark gray (10YR 4/1).						
					0.0		(49.5-53.25') CLAY, medium plasticity; little granules to medium pebbles, subangular; trace fine sand; moist; medium stiff; dark gray (10YR 4/1).								
					0.0										
					0.0		(54.5-55.75') CLAY, some silt, high plasticity; trace granules, subrounded; moist to wet; dark gray (10YR 4/1).								
55	805	12	53.25-58.25	5.0	0.0					(54.5-55.75') CLAY, some silt, high plasticity; trace granules, subrounded; moist to wet; dark gray (10YR 4/1).					
					0.0		(55.75-57.25') SAND, very fine to fine, little granules to small pebbles, subangular; little silt and clay; poorly sorted; wet to moist; dark gray (10YR 4/1).								
					0.0									(57.25-58.25') CLAY, medium plasticity; little coarse sand to granules, subangular; trace fine sand; dry; stiff; drak gray (10YR 4/1).	
					0.0		End of boring at 58.25' bgs.								
60															

	Remarks: bgs = below ground surface Groundwater encountered from 13.25-13.5, at 13.75, from 23.0-24.0, from 29.0-31.0, at 42.75, from 48.25-49.5, and from 53.25-57.25. No odor or staining observed.
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Date Start/Finish: 5/10/12 and 5/14/12 Drilling Company: GeoServ Driller's Name: Rick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451387.58 Easting: 13064686.85 Casing Elevation: NA Borehole Depth: 28.25' bgs Surface Elevation: 861.67 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.1-MT115 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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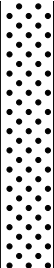
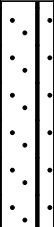
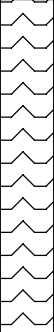
0									
860		1	0.0-5.0	5.0	NA			(0.0-1.5) CONCRETE	
					0.0			(1.5-3.0) SAND, fine to medium, trace granules, subrounded to subangular; trace silt; well sorted; dry to moist; yellowish brown (10YR 5/4). NOTE: FILL.	
					0.0			(3.0-4.5) CLAY, little silt, high plasticity; trace fine sand, trace small to medium pebbles, subangular; dry to moist; stiff to very stiff; gray (10YR 5/1).	
5					3.1			(4.5-5.0) CLAY and SILT, low to no plasticity; some fine to medium sand, trace small to medium pebbles, subrounded; dry to moist; medium stiff; black (10YR 2/1). NOTE: Organic rich layer; trace small roots.	
855		2	5.0-8.25	3.3	0.0			(5.0-10.0) CLAY, some silt, high plasticity; trace fine sand, trace small to medium pebbles, subrounded; dry to moist; medium stiff to stiff; grayish brown (10YR 5/2).	
					0.0				
					0.0				
10					0.0				
850		3	8.25-13.25	5.0	0.0			(10.0-12.6) SILT, little clay, medium plasticity; little very fine to fine sand, trace granules to small pebbles, subrounded; moist; medium stiff; grayish brown (10YR 5/2).	
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between No odor or staining observed
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Date Start/Finish: 5/10/12 and 5/14/12 Drilling Company: GeoServ Driller's Name: Rick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451387.58 Easting: 13064686.85 Casing Elevation: NA Borehole Depth: 28.25' bgs Surface Elevation: 861.67 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.1-MT115 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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15		4	13.25-18.25	5.0	0.0		 (12.6-16.9) SAND, very fine to coarse, trace granules, subrounded to subangular; little silt; poorly sorted; wet; yellowish brown (10YR 5/6). NOTE: coarsening downward.		
845					0.0		NOTE: small (<1.0 cm) interbedded silt seams from 16.4'-16.9' bgs.		
					0.0		 (16.9-20.2) SAND, very fine to coarse, trace granules, subrounded to subangular; some silt; poorly sorted; wet; gray (10YR 5/1). NOTE: interbedded silt; small (<1.0 cm) from 16.9'-17.3' bgs.		
20		5	18.25-23.25	5.0	0.0		 (20.2-25.0) CLAY and SILT, medium plasticity; little fine sand, trace small to large pebbles, subrounded, moist; medium stiff to stiff; gray (10YR 5/1). NOTE: Glacial TILL.		
840					0.0				
					0.0				
25		6	23.25-28.25	4.5	0.0		 (25.0-26.0) SAND, very fine to fine; some silt; well sorted; wet; gray (10YR 5/1).		
835					0.0		 (26.0-28.25) CLAY		
					0.0				
							End of boring at 28.25' bgs		

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between No odor or staining observed
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Date Start/Finish: 5/4/12 Drilling Company: GeoServ Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451359.41 Easting: 13065150.89 Casing Elevation: NA Borehole Depth: 23.25' bgs Surface Elevation: 861.83 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.1-MW162 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0									
860		1	0.0-5.0	5.0	0.4			(0.0-1.0) CONCRETE	
					0.3			(1.0-4.0) SAND, very fine to medium, trace granules to large pebbles, subangular; poorly sorted; moist; dark yellowish brown (10YR 4/4). NOTE: FILL; some small to large pebble bedrock fragments.	
					0.1				
					0.0				
5					0.9			(4.0-8.0) CLAY, trace silt, medium plasticity; some sand, trace small to medium pebbles, subrounded to subangular; moist; medium stiff. NOTE: Color is very dark gray between 4.0'-4.5' bgs. NOTE: Wet at 4.5' bgs; water filling hole. NOTE: Color change to dark gray between 4.5'-7.0' bgs.	
855		2	5.0-8.25	3.2	0.0				
					0.0				
					0.0			(8.0-13.25) CLAY, silt, medium to high plasticity; trace sand, trace small to large pebbles, subrounded; dry to moist, stiff, grayish brown (10YR 5/2). NOTE: TILL.	
10					0.0				
850		3	8.25-13.25	5.0	0.0				
					0.0				
					0.0				

Borehole backfilled with Bentonite.

	Remarks: BGS = Below ground surface Groundwater detected at 4.5', between 13.25'-18.25' and 18.25'-23.25' bgs No odor or staining detected
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected at 4.5', between 13.25'-18.25' and 18.25'-23.25' bgs No odor or staining detected
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Date Start/Finish: 5/15/12 Drilling Company: GeoServe Driller's Name: Rick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451215.83 Easting: 13064853.42 Casing Elevation: NA Borehole Depth: 63.25' bgs Surface Elevation: 861.33 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.2-NK132 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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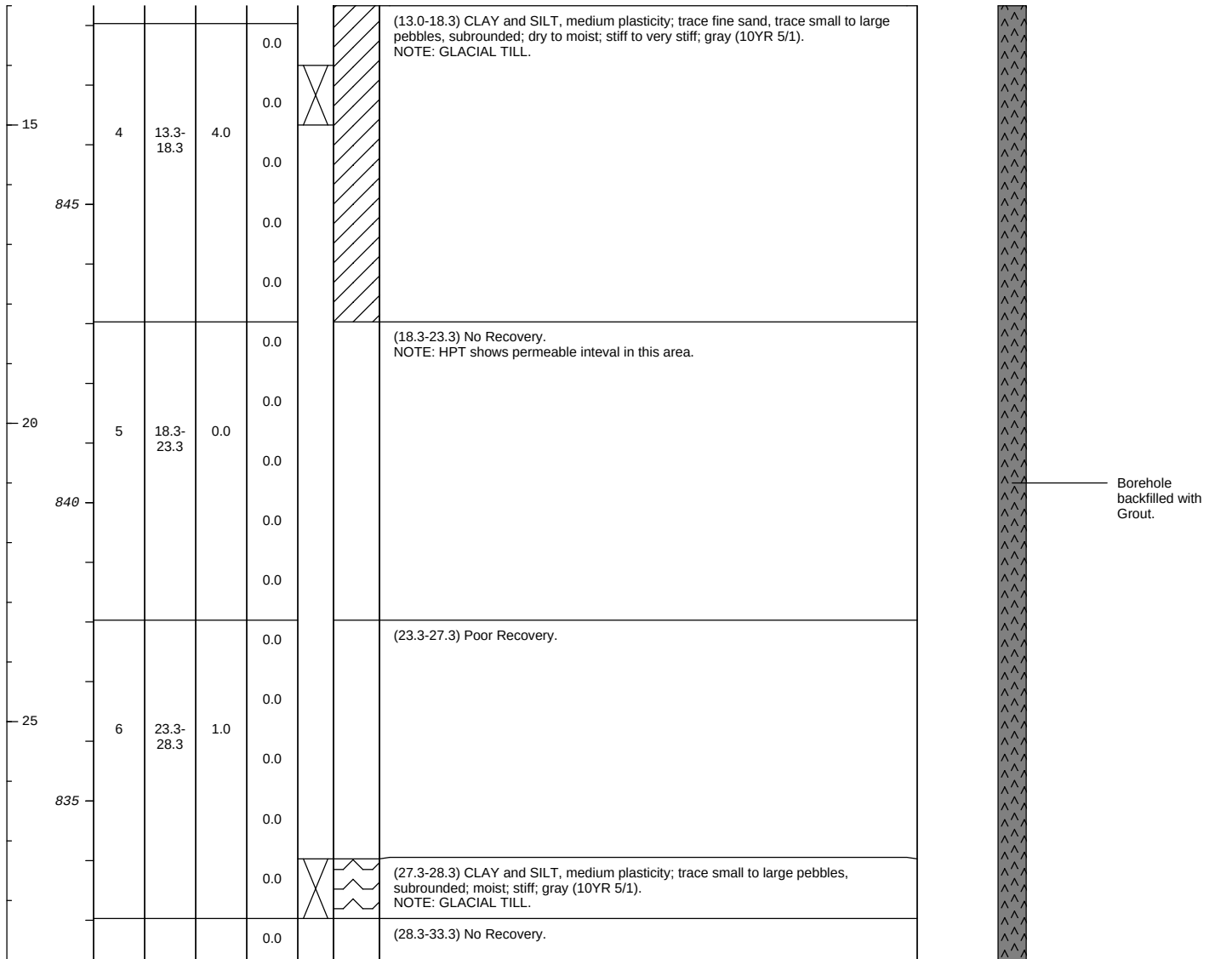
0									
860		1	0.0-5.0	5.0	3.4			(0.0-1.0) CONCRETE	
					0.4			(1.0-9.0) SAND, very fine to fine, little granules, trace small to medium pebbles, subrounded to subangular; little silt; poorly sorted; moist; yellowish brown (10YR 5/6). NOTE: FILL.	
					0.0				
5					0.0				
855		2	5.0-8.3	3.0	0.0				
					0.0				
					0.0			NOTE: dark staining; black (10YR 2/1); slight odor from 8.0'-9.0' bgs.	
					0.0				
10					0.0				
850		3	8.3-13.3	5.0	0.0			(9.0-13.0) SAND, fine to coarse, little granules to small pebbles, subangular; some silt; poorly sorted; wet; very dark gray (10YR 3/1) to black (10YR 2/1). NOTE: FILL; slight odor; interbedded silt (<0.1') at 9.0' and 9.5' bgs.	
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 9.0'-13.0' bgs. Odor and Staining detected between 9.0'-13.0' bgs.
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Date Start/Finish: 5/15/12 Drilling Company: GeoServe Driller's Name: Rick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451215.83 Easting: 13064853.42 Casing Elevation: NA Borehole Depth: 63.25' bgs Surface Elevation: 861.33 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.2-NK132 Client: RACER Trust Location: Lansing, MI
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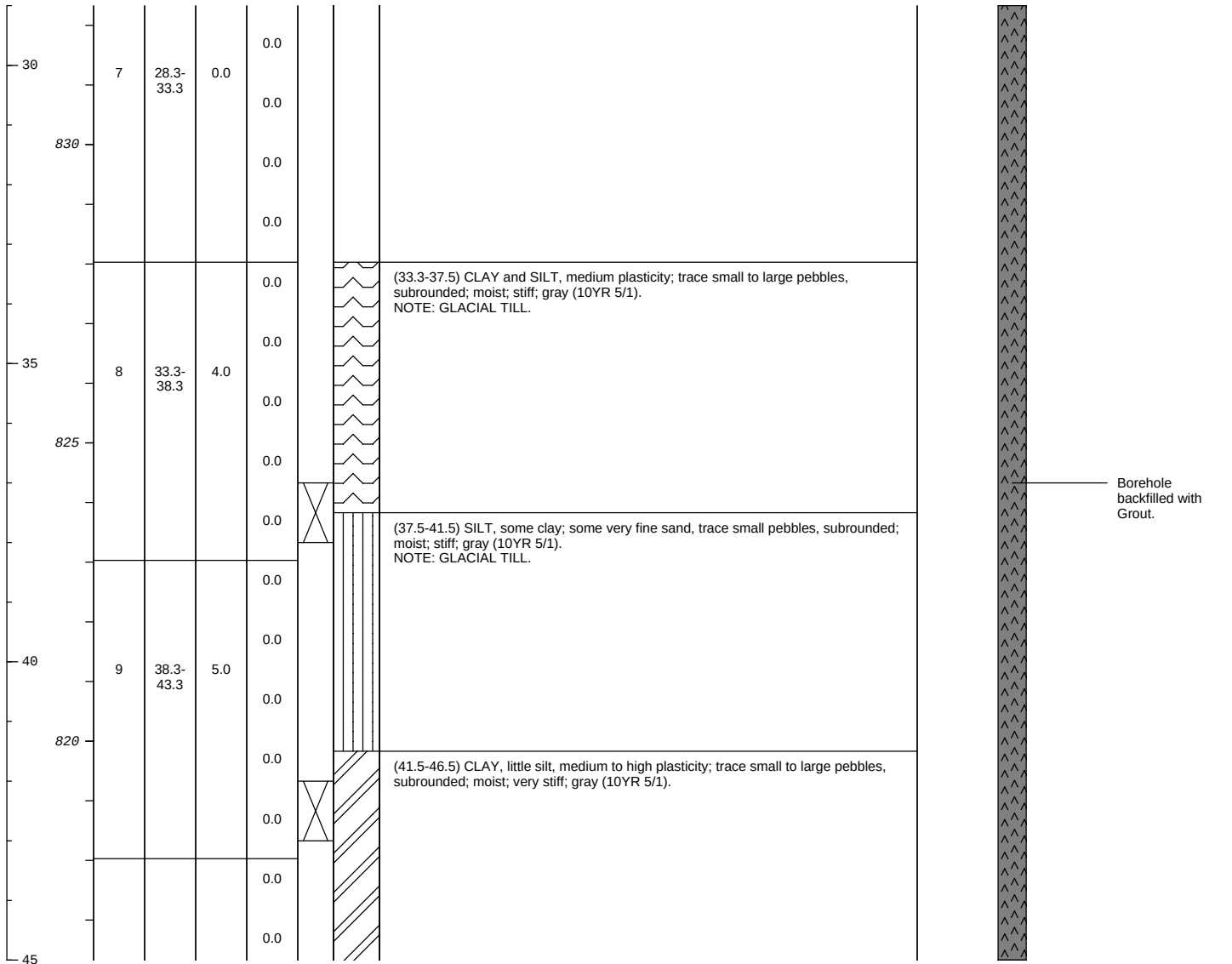
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 9.0'-13.0' bgs. Odor and Staining detected between 9.0'-13.0' bgs.
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Date Start/Finish: 5/15/12 Drilling Company: GeoServe Driller's Name: Rick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451215.83 Easting: 13064853.42 Casing Elevation: NA Borehole Depth: 63.25' bgs Surface Elevation: 861.33 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.2-NK132 Client: RACER Trust Location: Lansing, MI
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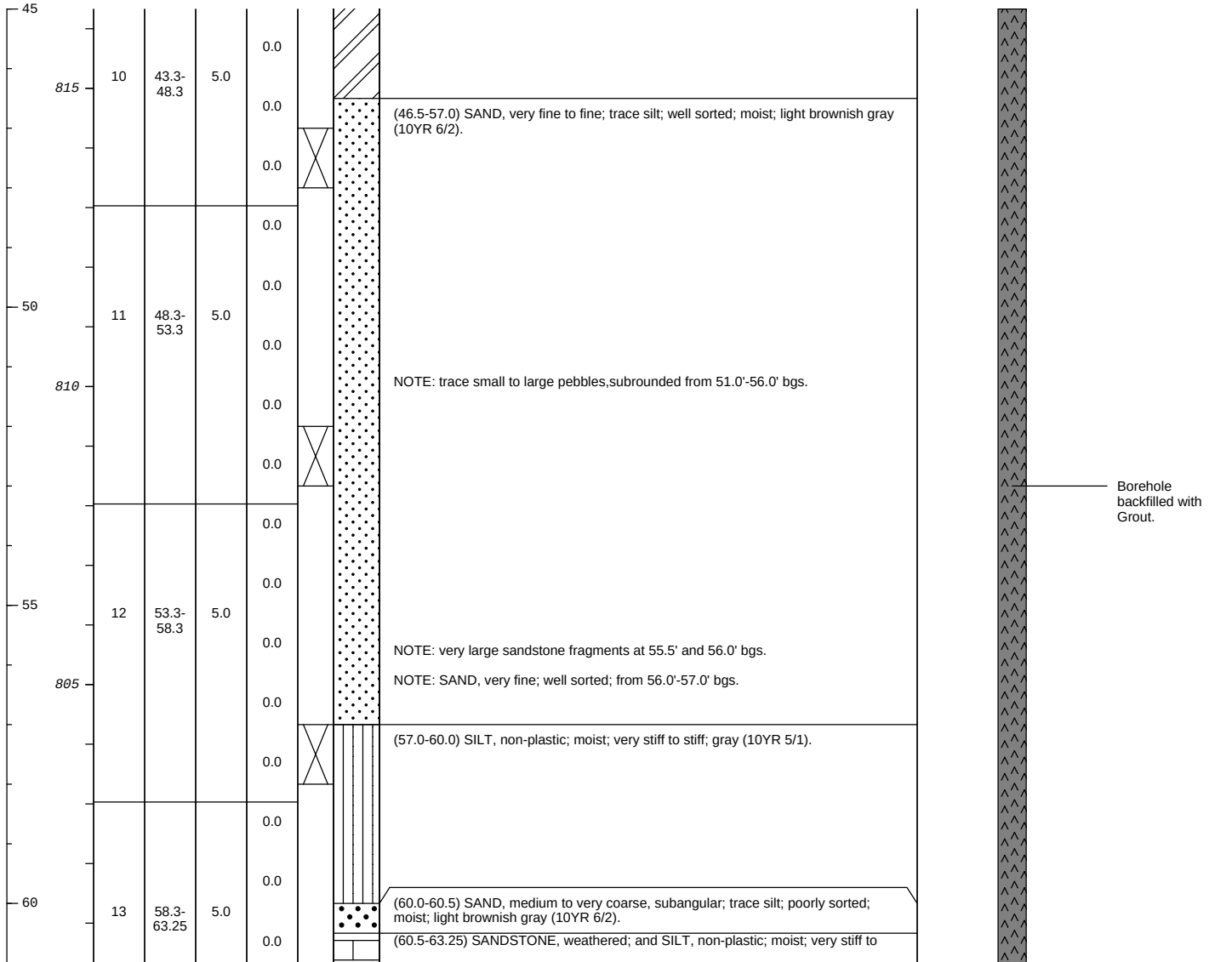
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 9.0'-13.0' bgs. Odor and Staining detected between 9.0'-13.0' bgs.
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Date Start/Finish: 5/15/12 Drilling Company: GeoServe Driller's Name: Rick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451215.83 Easting: 13064853.42 Casing Elevation: NA Borehole Depth: 63.25' bgs Surface Elevation: 861.33 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.2-NK132 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 9.0'-13.0' bgs. Odor and Staining detected between 9.0'-13.0' bgs.
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Date Start/Finish: 5/15/12 Drilling Company: GeoServe Driller's Name: Rick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451215.83 Easting: 13064853.42 Casing Elevation: NA Borehole Depth: 63.25' bgs Surface Elevation: 861.33 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.2-NK132 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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800				0.0				hard; gray (10YR 5/1). NOTE: Mostly large fragments of pulverized sandstone.	 Borehole backfilled with Grout.
				0.0					
65								End of boring at 63.25' bgs	
795									
70									
790									
75									
785									

	Remarks: BGS = Below ground surface Groundwater detected between 9.0'-13.0' bgs. Odor and Staining detected between 9.0'-13.0' bgs.
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Date Start/Finish: 4/30/12 Drilling Company: GeoServ Driller's Name: Dean Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451116.701478 Easting: 13064907.183006 Casing Elevation: Borehole Depth: 58.0' bgs Surface Elevation: 861.677551 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.2-NU137 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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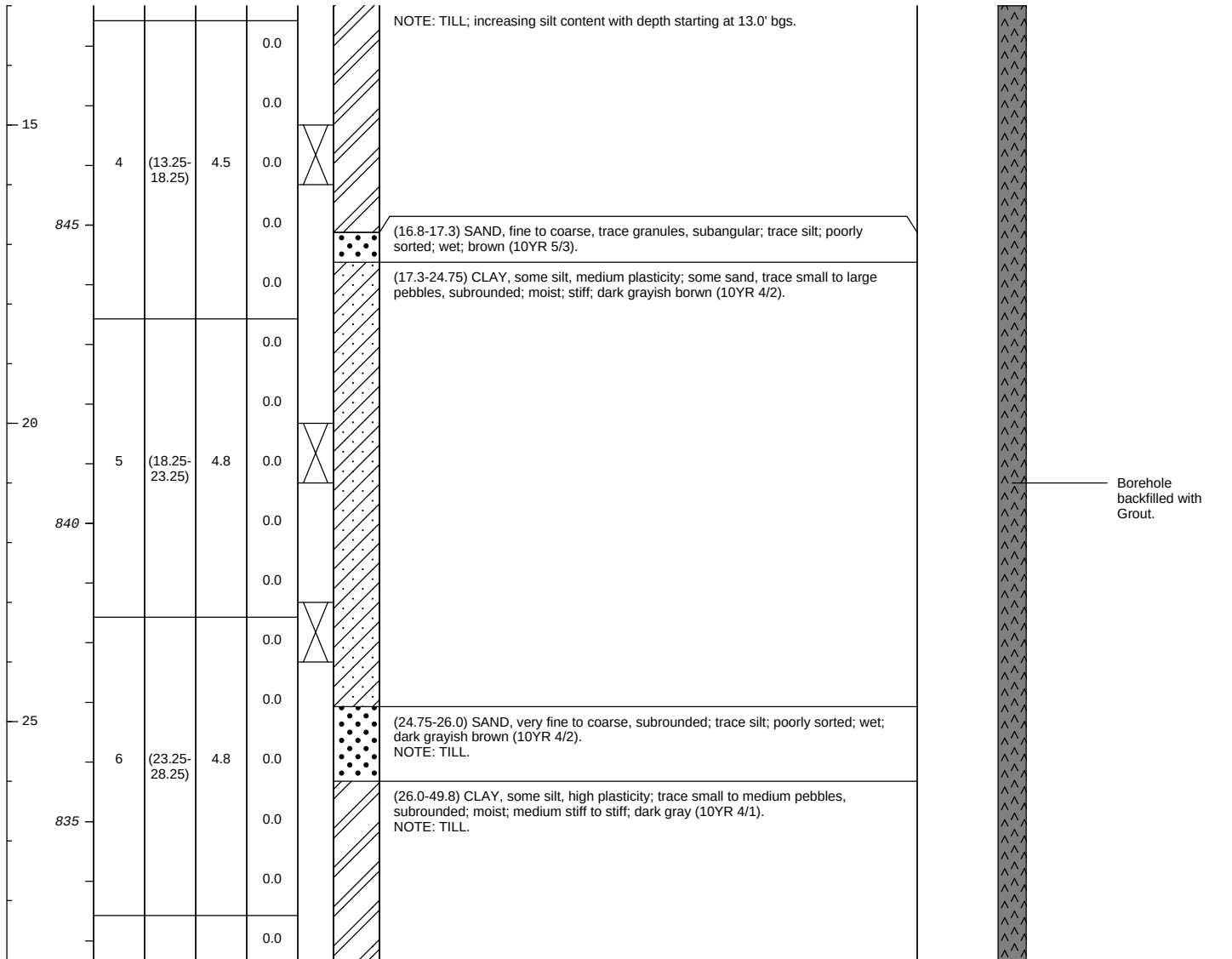
0									
860		1	(0.9-5)	5.0	0.6			(0.0-0.9) ASPHALT	
					0.4			(0.9-4.0) SAND, very fine to medium, trace granules to medium pebbles, subrounded to subangular; well sorted; moist; dark yellowish brown (10YR 4/4). NOTE: FILL.	
					0.0				
					0.0				
5					0.0			(4.0-16.8) CLAY, trace silt, medium to high plasticity; some sand, trace small to large pebbles, subrounded; moist; stiff to very stiff; dark grayish brown (10YR 4/2).	
855		2	(5-8.25)	3.6	0.0				
					0.0				
					0.0				
10					0.0				
850		3	(8.25-13.25)	4.2	0.0				
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 16.8'-17.3' and 24.75'-26.0' bgs No odor or staining detected
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Date Start/Finish: 4/30/12 Drilling Company: GeoServ Driller's Name: Dean Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451116.701478 Easting: 13064907.183006 Casing Elevation: Borehole Depth: 58.0' bgs Surface Elevation: 861.677551 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.2-NU137 Client: RACER Trust Location: Lansing, MI
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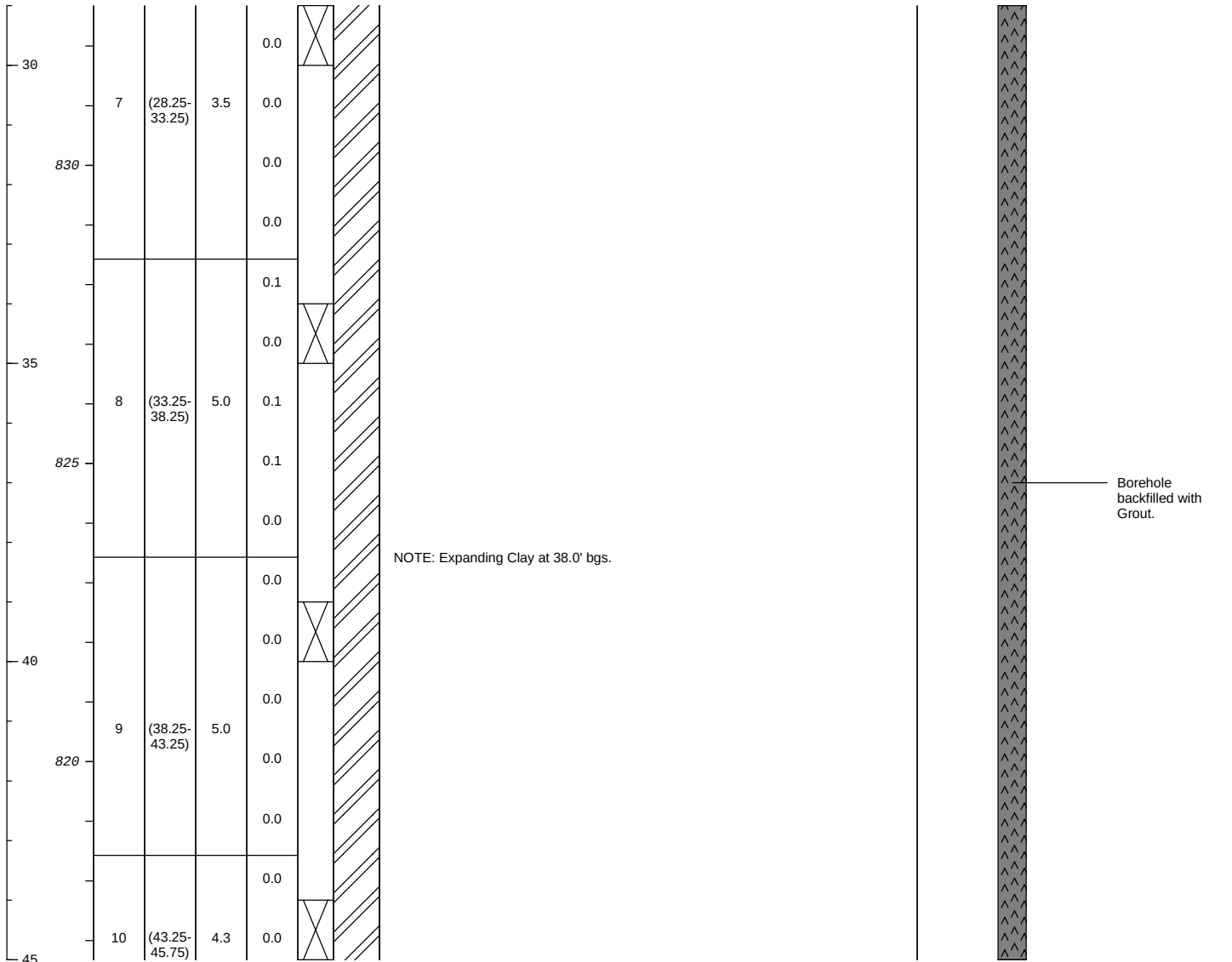
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 16.8'-17.3' and 24.75'-26.0' bgs No odor or staining detected
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Date Start/Finish: 4/30/12 Drilling Company: GeoServ Driller's Name: Dean Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451116.701478 Easting: 13064907.183006 Casing Elevation: Borehole Depth: 58.0' bgs Surface Elevation: 861.677551 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.2-NU137 Client: RACER Trust Location: Lansing, MI
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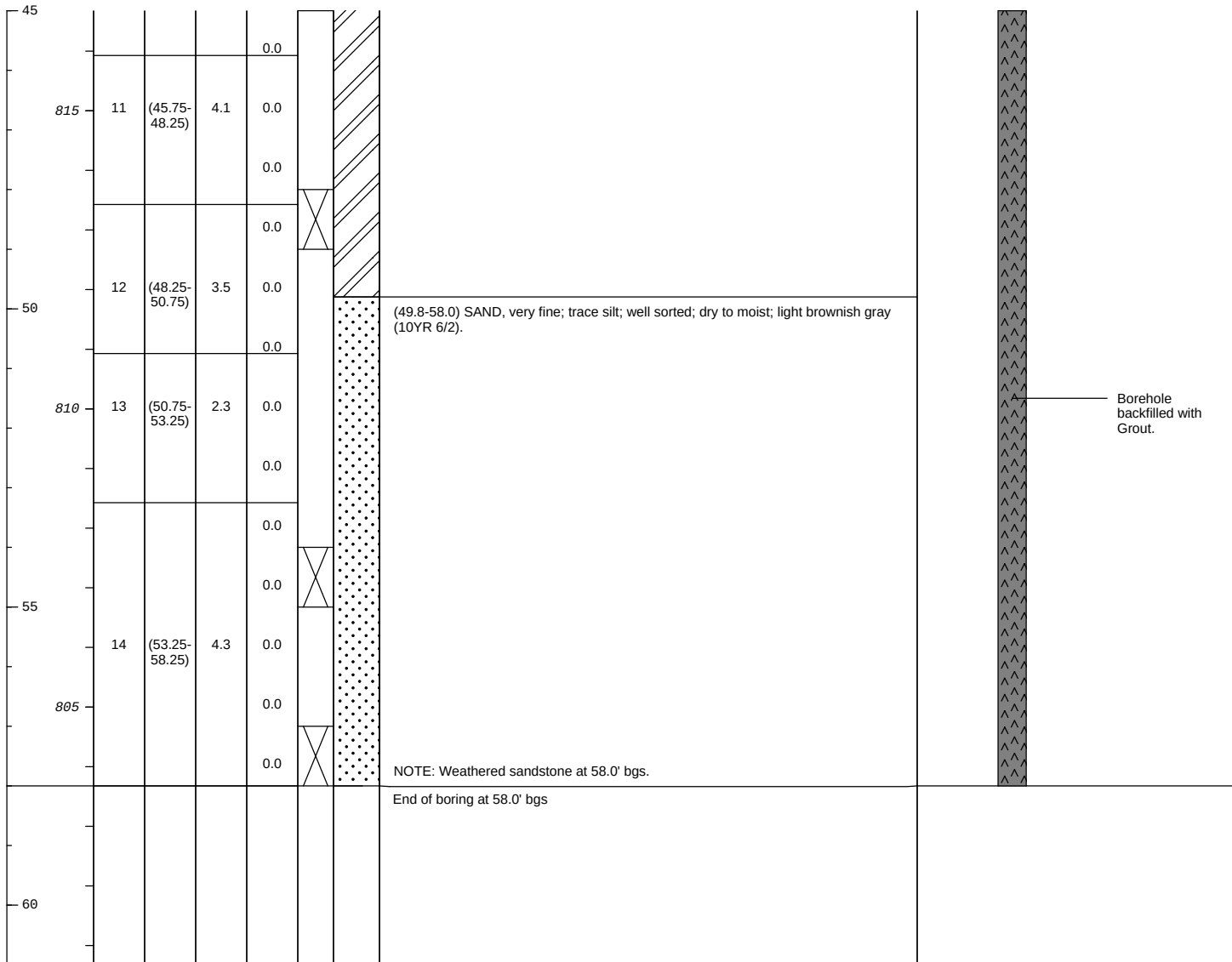
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 16.8'-17.3' and 24.75'-26.0' bgs No odor or staining detected
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Date Start/Finish: 4/30/12 Drilling Company: GeoServ Driller's Name: Dean Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451116.701478 Easting: 13064907.183006 Casing Elevation: Borehole Depth: 58.0' bgs Surface Elevation: 861.677551 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.2-NU137 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 16.8'-17.3' and 24.75'-26.0' bgs No odor or staining detected
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Date Start/Finish: 5/2/12 Drilling Company: GeoServ Driller's Name: Dean Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451108.79 Easting: 13064725.24 Casing Elevation: NA Borehole Depth: 63.25' bgs Surface Elevation: 861.97 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.2-NV119 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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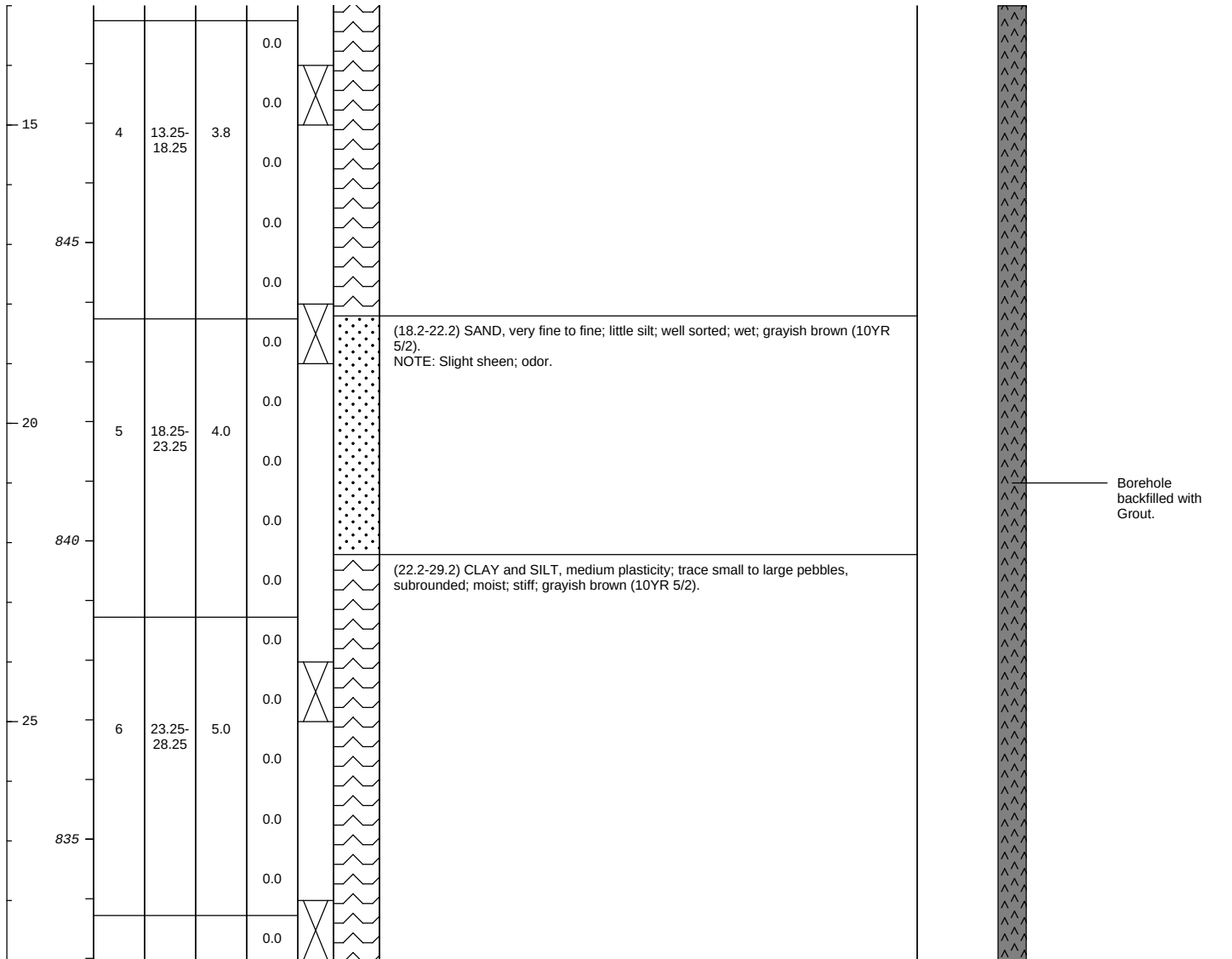
0								(0.0-1.0) CONCRETE	
860	1	0.0-5.0	5.0	0.0	NA			(1.0-4.0) SAND, very fine; some silt; well sorted; dry to moist; yellowish brown (10YR 5/6).	
				0.0					
				0.0					
5				0.0				(4.0-7.0) SAND, very fine to medium; trace granules to small pebbles, subrounded to subangular; some clay to silt; poorly sorted; moist to wet; yellowish brown (10YR 5/6). NOTE: FILL.	
855	2	5.0-8.25	2.5	0.0				NOTE: very dark gray (10YR 3/1) to black (10YR 2/1) staining; slight odor; from 6.0'-7.0' bgs.	
				0.0				(7.0-8.3) CLAY and SILT, low to medium plasticity; trace small to medium pebbles, subrounded; dry to moist; stiff to very stiff; yellowish brown (10YR 5/6). NOTE: GLACIAL TILL.	
				0.0				(8.3-9.0) SAND, very fine to coarse, trace small pebbles, subrounded; little silt; poorly sorted; wet; light brownish gray (10YR 6/2). NOTE: slight staining, black (10YR 2/1).	
10				0.0				(9.0-18.2) CLAY and SILT, medium plasticity; trace small to large pebbles, subrounded; dry; stiff to very stiff; grayish brown (10YR 5/2). NOTE: GLACIAL TILL.	
850	3	8.25-13.25	5.0	0.0					
				0.0					
				0.0					
				0.0					

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-7.0', 8.3'-9.0', and 18.2'-22.2' bgs Odor detected between 6.0'-7.0' and 18.2'-22.2' bgs Staining detected between 6.0'-7.0', 8.3'-9.0' and 18.2'-22.2' bgs
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Date Start/Finish: 5/2/12 Drilling Company: GeoServ Driller's Name: Dean Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451108.79 Easting: 13064725.24 Casing Elevation: NA Borehole Depth: 63.25' bgs Surface Elevation: 861.97 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.2-NV119 Client: RACER Trust Location: Lansing, MI
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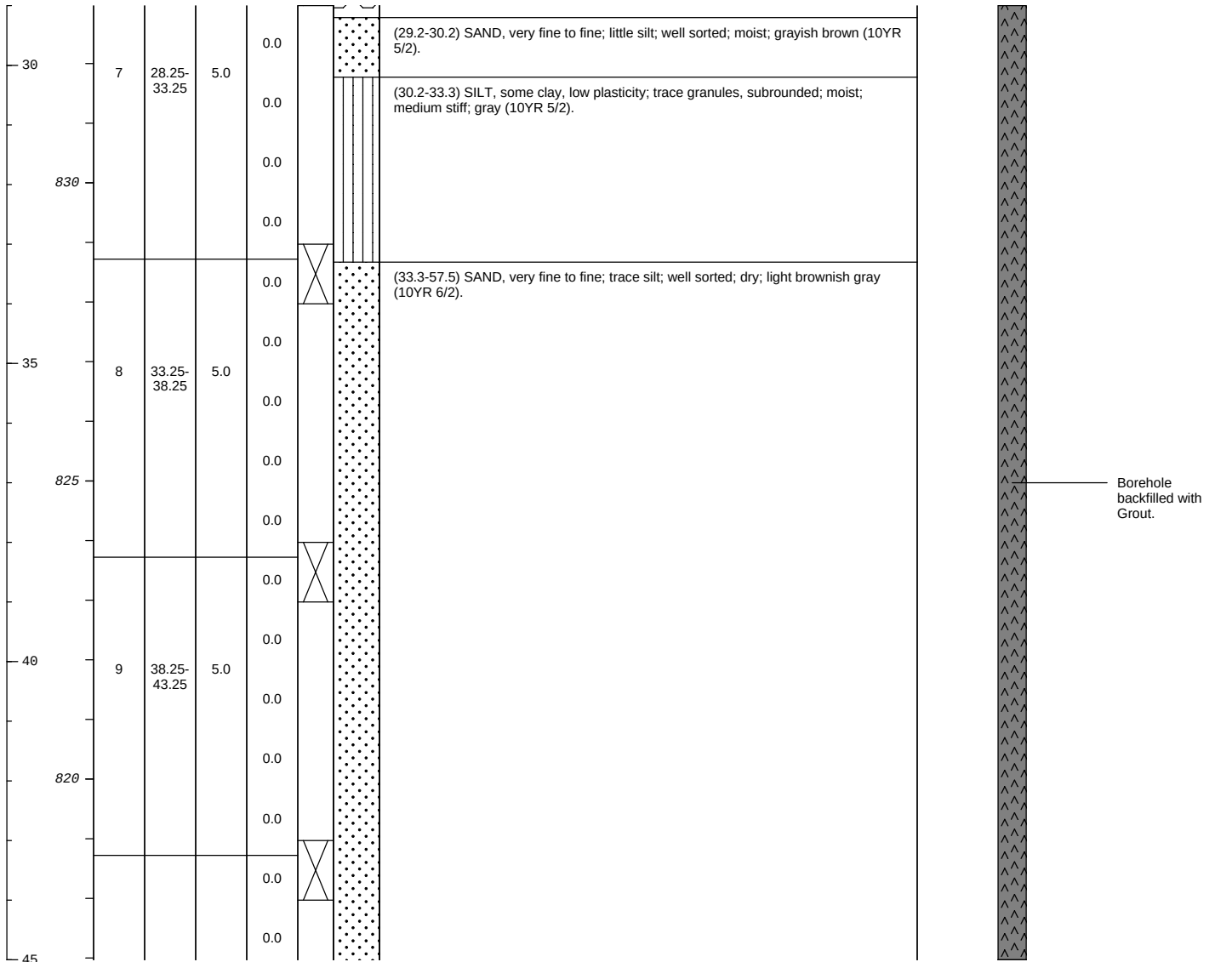
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-7.0', 8.3'-9.0', and 18.2'-22.2' bgs Odor detected between 6.0'-7.0' and 18.2'-22.2' bgs Staining detected between 6.0'-7.0', 8.3'-9.0' and 18.2'-22.2' bgs
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Date Start/Finish: 5/2/12 Drilling Company: GeoServ Driller's Name: Dean Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451108.79 Easting: 13064725.24 Casing Elevation: NA Borehole Depth: 63.25' bgs Surface Elevation: 861.97 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.2-NV119 Client: RACER Trust Location: Lansing, MI
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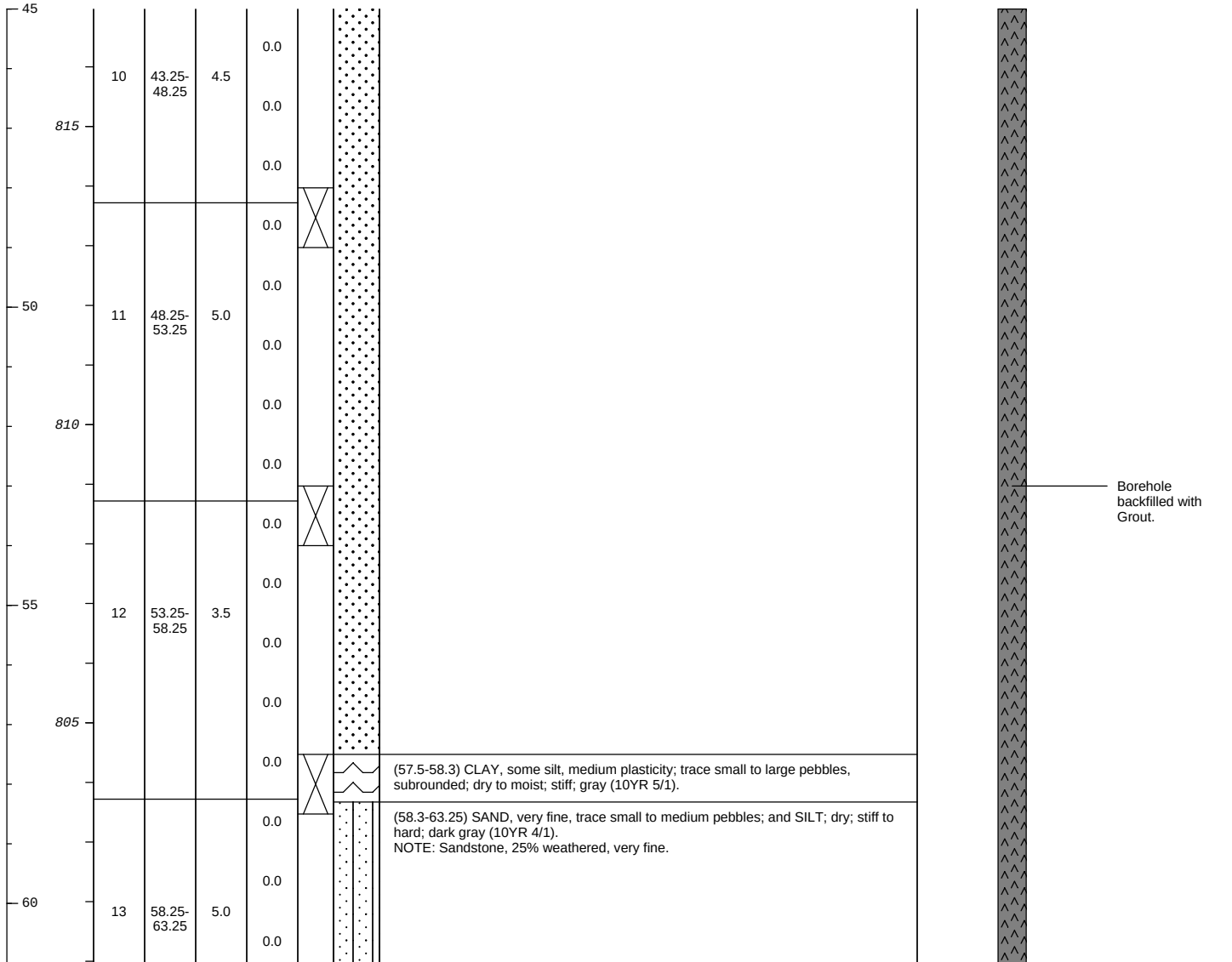
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-7.0', 8.3'-9.0', and 18.2'-22.2' bgs Odor detected between 6.0'-7.0' and 18.2'-22.2' bgs Staining detected between 6.0'-7.0', 8.3'-9.0' and 18.2'-22.2' bgs
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Date Start/Finish: 5/2/12 Drilling Company: GeoServ Driller's Name: Dean Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451108.79 Easting: 13064725.24 Casing Elevation: NA Borehole Depth: 63.25' bgs Surface Elevation: 861.97 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.2-NV119 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-7.0', 8.3'-9.0', and 18.2'-22.2' bgs Odor detected between 6.0'-7.0' and 18.2'-22.2' bgs Staining detected between 6.0'-7.0', 8.3'-9.0' and 18.2'-22.2' bgs
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Date Start/Finish: 5/2/12 Drilling Company: GeoServ Driller's Name: Dean Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451108.79 Easting: 13064725.24 Casing Elevation: NA Borehole Depth: 63.25' bgs Surface Elevation: 861.97 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.2-NV119 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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800				0.0					
				0.0					
65								End of boring at 63.25' bgs	
795									
70									
790									
75									
785									



Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-7.0', 8.3'-9.0', and 18.2'-22.2' bgs Odor detected between 6.0'-7.0' and 18.2'-22.2' bgs Staining detected between 6.0'-7.0', 8.3'-9.0' and 18.2'-22.2' bgs
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Date Start/Finish: 5/3/12 Drilling Company: Geoserv Driller's Name: Dean Govan Drilling Method: Geoprobe Sampling Method: Hand Auger and Macrocore Rig Type: 8040A Geoprobe	Northing: 451108.92 Easting: 13064516.34 Casing Elevation: NA Borehole Depth: 49.25' bgs Surface Elevation: 862.10 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.2-NV98 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0								(0.0-1.0') CONCRETE	
					0.0			(1.0-8.2') SAND, very fine, well sorted; little silt; dry; yellowish brown (10YR 5/6). NOTE: FILL	
860		1	0-5	5.0	0.0				
					0.0				
					0.0				
5					0.0				
					0.0				
855		2	5-8.25	2.5	0.0				
					0.0				
					0.0			(8.2-11.2') CLAY, some silt, low plasticity; trace small to medium pebbles, subround; moist; medium stiff to stiff; yellowish brown (10YR 5/4).	
10					0.0				
					0.0			(11.2-15.2') SAND, very fine to coarse, trace granules, subround to subangular; little silt; poorly sorted; moist; yellowish brown (10YR 5/6).	
850					0.0				
					0.0			NOTE: wet at 13.2' bgs.	
					0.0				
15					0.0			(15.2-30.8') CLAY and SILT, medium plasticity; trace small to medium pebbles, subround; moist; stiff; grayish brown (10YR 5/2).	
		4	13.25-	4.5	0.0				

Borehole backfilled with Grout.

	Remarks: bgs = Below ground surface Groundwater detected between 13.2'-15.2' bgs. VAP-A5.2-NV98 sample collected from 13-15' bgs. No odor or staining detected.
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Date Start/Finish: 5/3/12 Drilling Company: Geoserv Driller's Name: Dean Govan Drilling Method: Geoprobe Sampling Method: Hand Auger and Macrocore Rig Type: 8040A Geoprobe	Northing: 451108.92 Easting: 13064516.34 Casing Elevation: NA Borehole Depth: 49.25' bgs Surface Elevation: 862.10 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.2-NV98 Client: RACER Trust Location: Lansing, MI
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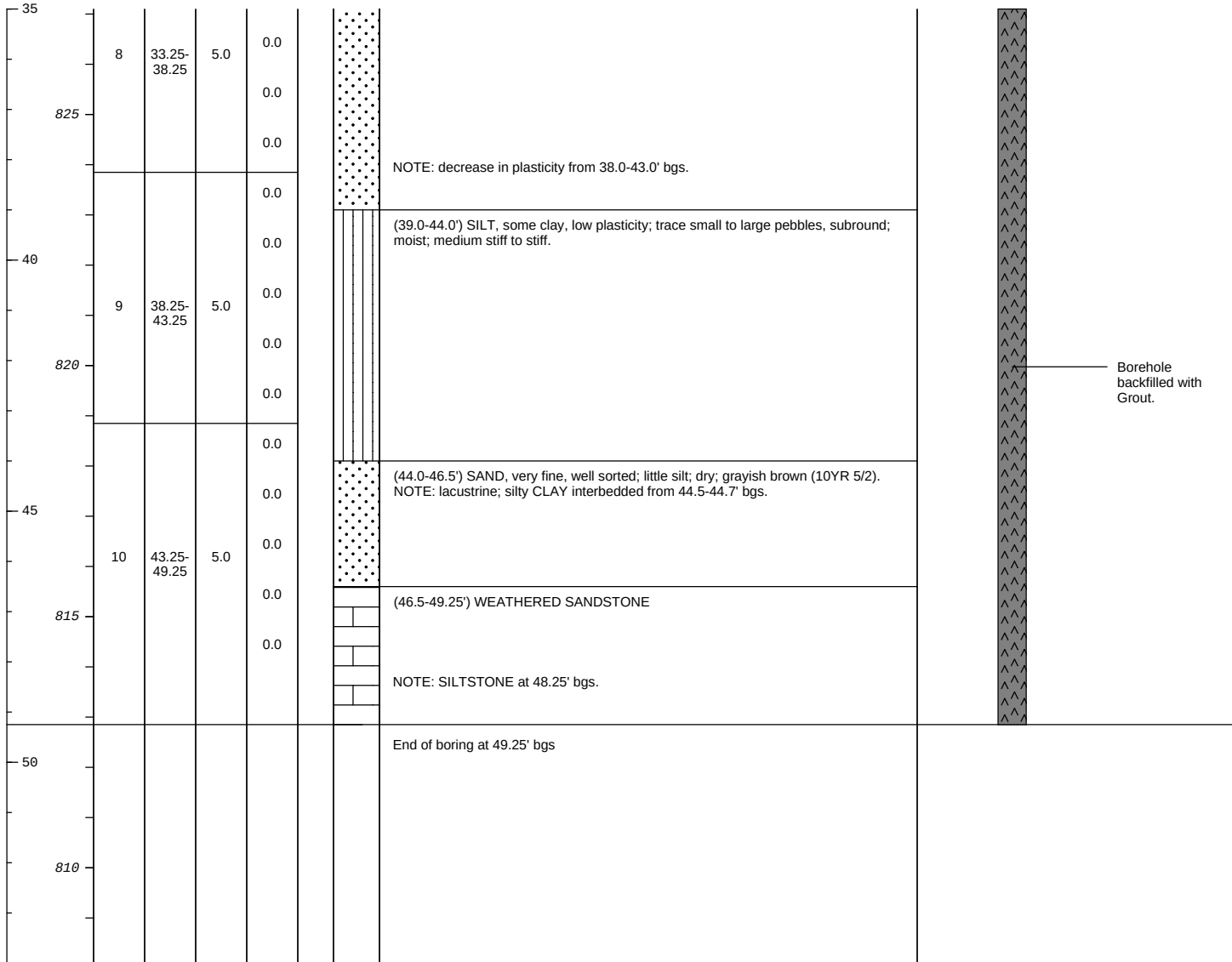
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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845		18.25			0.0				
					0.0				
20					0.0				
					0.0				
	5	18.25-23.25	5.0		0.0				
840					0.0				
					0.0				
					0.0				
25					0.0			NOTE: increase in SILT; increase moisture content from 24.2-25.2' bgs.	
					0.0			NOTE: increase in CLAY content from 25.0-28.0' bgs.	
	6	23.25-28.25	5.0		0.0				
					0.0				
835					0.0				
					0.0			NOTE: increase in SILT; increase moisture content from 28.0-30.8' bgs.	
					0.0				
30					0.0				
	7	28.25-33.25	5.0		0.0			(30.8-39.0') SAND, very fine to fine, well sorted; trace silt; dry to moist; light grayish brown (10YR 6/2).	
					0.0				
830					0.0				
					0.0				
					0.0				
35					0.0				

	Remarks: bgs = Below ground surface Groundwater detected between 13.2'-15.2' bgs. VAP-A5.2-NV98 sample collected from 13-15' bgs. No odor or staining detected.
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Date Start/Finish: 5/3/12 Drilling Company: Geoserv Driller's Name: Dean Govan Drilling Method: Geoprobe Sampling Method: Hand Auger and Macrocore Rig Type: 8040A Geoprobe	Northing: 451108.92 Easting: 13064516.34 Casing Elevation: NA Borehole Depth: 49.25' bgs Surface Elevation: 862.10 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.2-NV98 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: bgs = Below ground surface Groundwater detected between 13.2'-15.2' bgs. VAP-A5.2-NV98 sample collected from 13-15' bgs. No odor or staining detected.
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Date Start/Finish: 5/2/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451016.780423 Easting: 13064824.856121 Casing Elevation: Borehole Depth: 60.0' bgs Surface Elevation: 862.02777 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.2-OE129 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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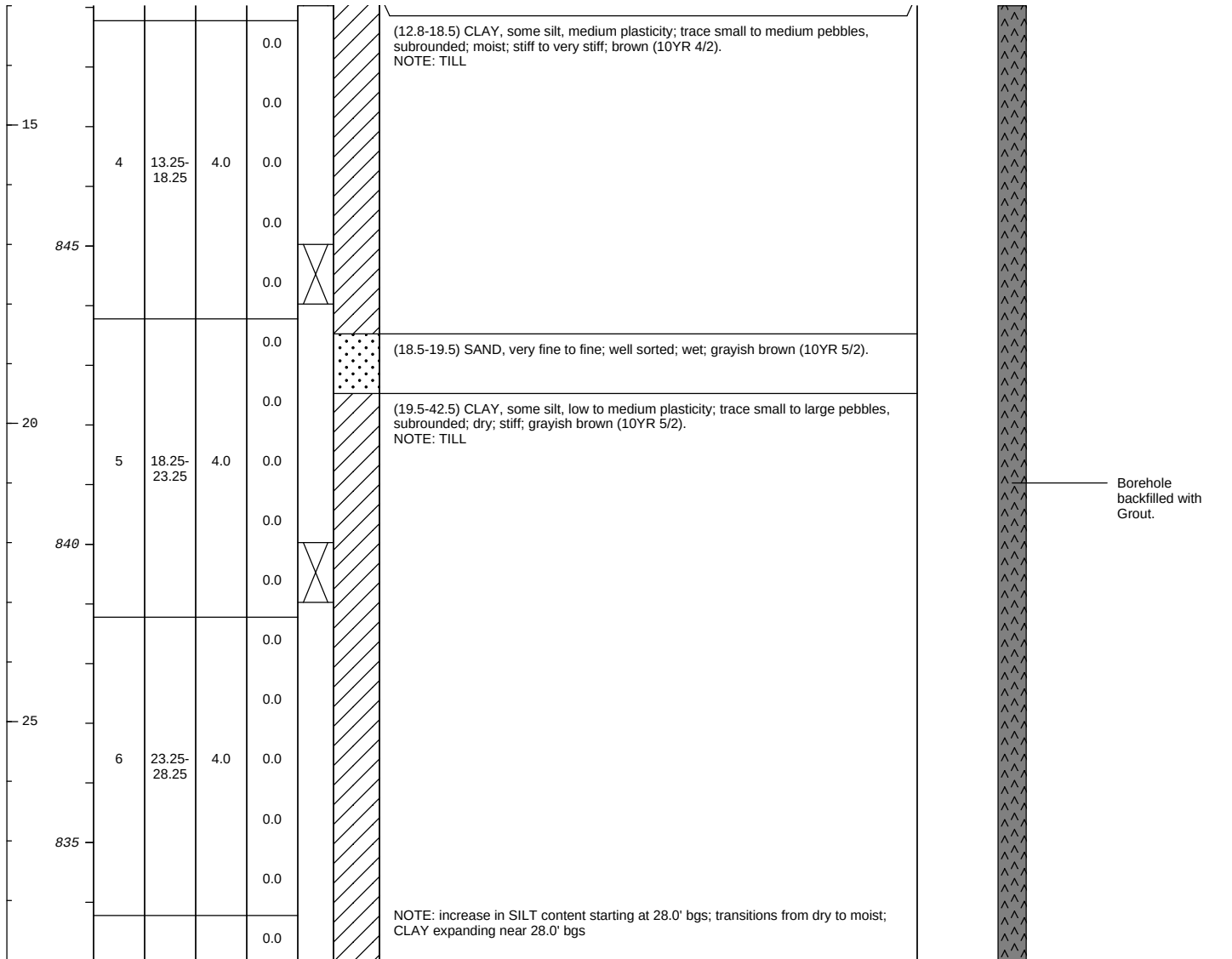
865									
0									
					0.0			(0.0-1.0) CONCRETE	
					0.0			(1.0-12.3) SAND, very fine; some silt; well sorted; wet; yellowish brown (10YR 5/6). NOTE: FILL.	
860		1	0.0-3.25	1.5	0.0			NOTE: No recovery from 1.0'-3.25' bgs due to pulverised concrete; no sample collected.	
					0.0				
					0.0				
5					0.0				
		2	3.25-8.25	1.5	0.0				
					0.0				
					0.0				
855					0.0				
					0.0				
					0.0				
					0.0				
10					0.0				
		3	8.25-13.25	1.8	0.0				
					0.0				
					0.0				
850					0.0			(12.3-12.4) CLAY, trace silt, medium plasticity; trace small to medium pebbles, subrounded; moist; stiff; yellowish brown (10YR 5/6).	
					0.0			(12.4-12.8) SAND, some silt; well sorted; wet; yellowish brown (10YR 5/6). NOTE: FILL	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 1.0'-12.3', 12.4'-12.8', 18.5-19.5' and at 36.5' bgs Slight Odor and black staining (10YR 2/1) detected at 12.8' bgs
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Date Start/Finish: 5/2/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451016.780423 Easting: 13064824.856121 Casing Elevation: Borehole Depth: 60.0' bgs Surface Elevation: 862.02777 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.2-OE129 Client: RACER Trust Location: Lansing, MI
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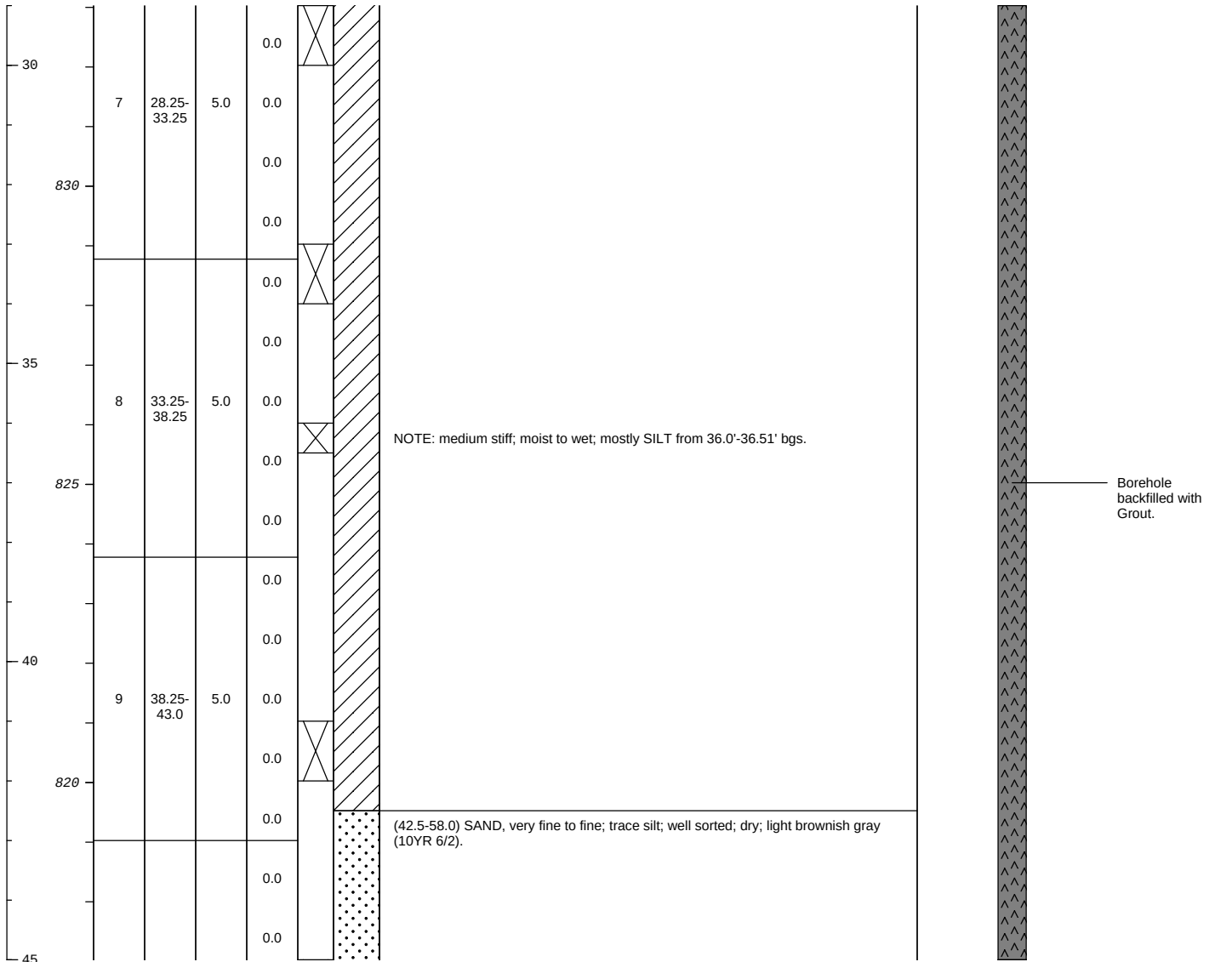
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 1.0'-12.3', 12.4'-12.8', 18.5-19.5' and at 36.5' bgs Slight Odor and black staining (10YR 2/1) detected at 12.8' bgs
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Date Start/Finish: 5/2/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451016.780423 Easting: 13064824.856121 Casing Elevation: Borehole Depth: 60.0' bgs Surface Elevation: 862.02777 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.2-OE129 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 1.0'-12.3', 12.4'-12.8', 18.5-19.5' and at 36.5' bgs Slight Odor and black staining (10YR 2/1) detected at 12.8' bgs
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Date Start/Finish: 5/2/12 Drilling Company: Stock Driller's Name: Chris Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451016.780423 Easting: 13064824.856121 Casing Elevation: Borehole Depth: 60.0' bgs Surface Elevation: 862.02777 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.2-OE129 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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45		10	43.0-47.5	5.0	0.0	X			
815					0.0				
					0.0				
50		11	47.5-52.5	5.0	0.0	X			
810					0.0				
					0.0				
55		12	52.5-57.5	5.0	0.0				
805					0.0				
		13	57.5-60.0	2.5	0.0	X		(58.0-59.0) CLAY, little silt, medium to high plasticity; little small to medium pebbles, subrounded; dry to moist; stiff to very stiff; drak grayish brown (10YR 4/2). NOTE: TILL	
					0.0			(59.0-60.0) SANDSTONE	
60								End of boring at 60.0' bgs	

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 1.0'-12.3', 12.4'-12.8', 18.5-19.5' and at 36.5' bgs Slight Odor and black staining (10YR 2/1) detected at 12.8' bgs
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Date Start/Finish: 5/7 to 5/8/12 Drilling Company: GeoServ Driller's Name: Rick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450848.42 Easting: 13064657.77 Casing Elevation: NA Borehole Depth: 45.0' bgs Surface Elevation: 862.06 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.3-OV112 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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865									
0									
860	1	0.0-3.3	5.0	NA				(0.0-1.5) CONCRETE	
				0.4				(1.5-4.5) SAND, very fine to fine, trace small to very large pebbles; little silt; well sorted; moist; yellowish brown (10YR 5/6). NOTE: FILL.	
				0.5					
				0.1					
5	2	3.3-8.3	3.5	0.0				(4.5-5.5) CLAY and SILT, medium plasticity; little sand, trace small to large pebbles, subrounded; moist; stiff; grayish brown (10YR 5/2).	
				0.0				(5.5-6.0) Red and yellow brick fragments, small to medium pebbles; glass chunks. NOTE: FILL.	
				0.0				(6.0-7.5) CLAY and SILT, medium plasticity; some sand, trace small to large pebbles, subrounded; moist; medium stiff to stiff; very dark gray (10YR 3/1) to gray (10YR 5/1). NOTE: organic layer.	
855				0.0				(7.5-8.3) SAND, fine to medium, trace granules, trace small pebbles, subrounded to subangular; and SILT; poorly sorted; moist; very dark brown (10YR 2/2) to dark brown (10YR 3/3).	
				0.0				(8.3-8.7) CLAY and SILT, low to medium plasticity; some sand; dry to moist; stiff; very dark gray (10YR 3/1) to gray (10YR 5/1).	
10	3	8.3-13.3	4.5	0.0				(8.7-12.0) SAND, fine to medium, trace granules, subangular; and SILT; poorly sorted; moist to wet; very dark brown (10YR 2/2). NOTE: wet at 10.5' bgs.	
				0.0					
850				0.0				(12-13.3) CLAY and SILT, medium plasticity; trace sand; dry to moist; stiff; gray (10YR 2/2).	
				0.0					
				NA				(13.3-45.0) BLIND DRILL. No lithology recorded. Continue groundwater sampling from permeable intervals.	
				NA					
15				NA					

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 10.5'-13.3' bgs
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Date Start/Finish: 5/7 to 5/8/12 Drilling Company: GeoServ Driller's Name: Rick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450848.42 Easting: 13064657.77 Casing Elevation: NA Borehole Depth: 45.0' bgs Surface Elevation: 862.06 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.3-OV112 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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845					NA				
					NA				
					NA				
20					NA				
					NA				
	840				NA				
					NA				
					NA				
25					NA				
					NA				
	835				NA				
					NA				
					NA				
30					NA				
					NA				
	830				NA				
					NA				
					NA				
35					NA				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 10.5'-13.3' bgs
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Date Start/Finish: 5/7 to 5/8/12 Drilling Company: GeoServ Driller's Name: Rick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450848.42 Easting: 13064657.77 Casing Elevation: NA Borehole Depth: 45.0' bgs Surface Elevation: 862.06 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.3-OV112 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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35					NA				
					NA				
825					NA				
					NA				
					NA				
40					NA				
					NA				
					NA				
820					NA				
					NA				
					NA				
45					NA			End of boring at 45.0' bgs	
815									
50									
810									



Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 10.5'-13.3' bgs
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Date Start/Finish: 5/10/12 Drilling Company: GeoServe Driller's Name: Rick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450844.86 Easting: 13065127.52 Casing Elevation: NA Borehole Depth: 48.25' bgs Surface Elevation: 861.95 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.3-OV159 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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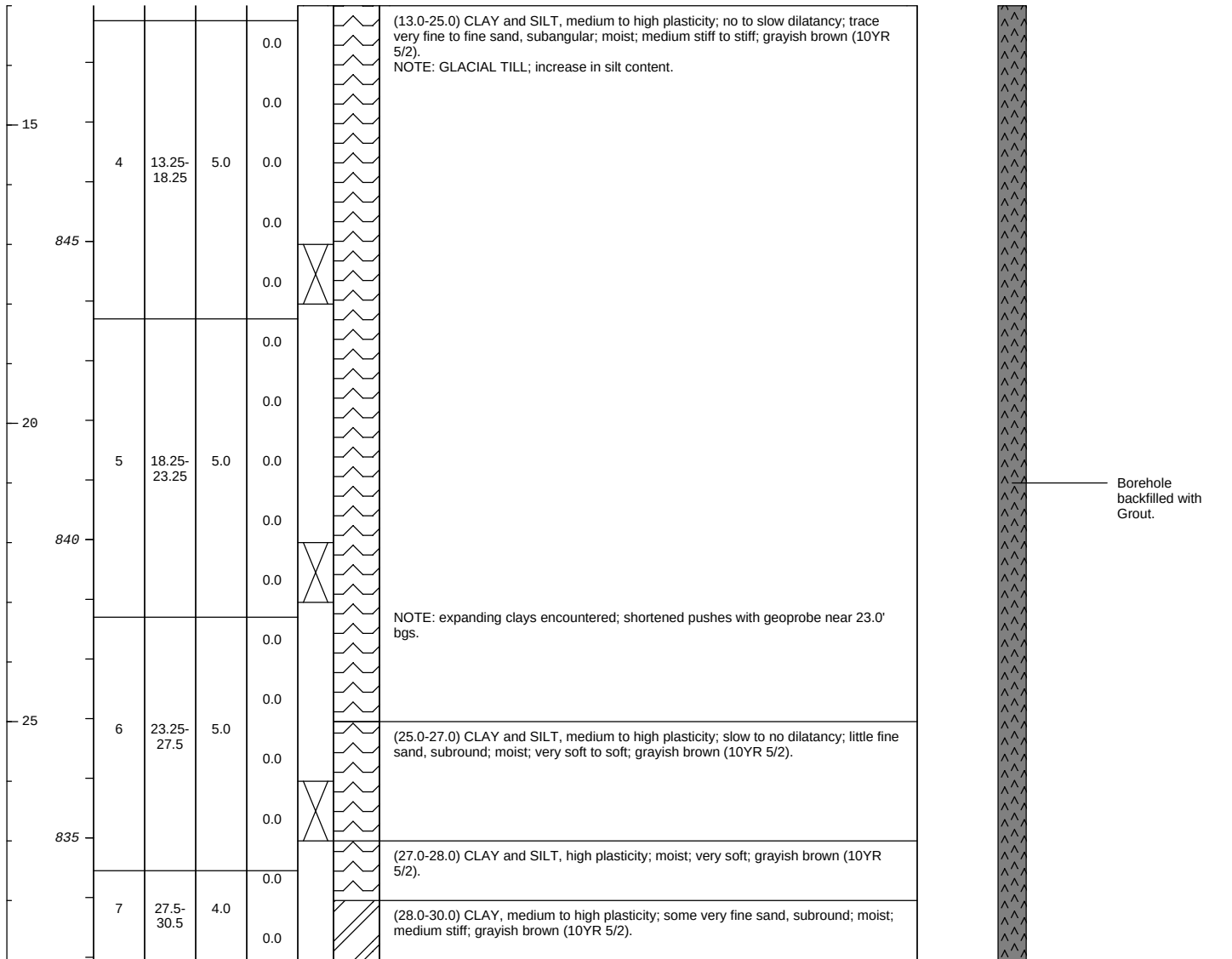
0								(0.0-1.5) CONCRETE	
860		1	0.0-5.0	5.0	NA			(1.5-2.5) SAND, fine to medium, trace granules to small pebbles, subround to subangular; trace silt; poorly sorted; moist to wet; yellowish brown (10YR 5/4). NOTE: water could be surface water; FILL; slight odor.	
				4.5				(2.5-4.5) CLAY, trace silt, medium to high plasticity; little fine to medium sand, trace small to medium pebbles, subround to subangular; moist to wet; medium stiff to stiff; dark grayish brown (10YR 4/2).	
				2.2					
				0.7				(4.5-13.0) CLAY, trace silt, high plasticity; trace small to large pebbles, subround; moist to dry; stiff to very stiff; yellowish brown (10YR 5/4) and gray (10YR 5/1) mottling. NOTE: GLACIAL TILL.	
5				0.0					
		2	5.0-8.25	3.0	0.0				
855				0.0					
				0.0					
				0.0					
10				0.0					
		3	8.25-13.25	3.0	0.0				
850				0.0					
				0.0					
				0.0					

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 1.7'-2.0', 2.5'-7.5', and 10.8'-11.7' bgs Odor detected between 7.5'-10.8' bgs No staining observed
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Date Start/Finish: 5/10/12 Drilling Company: GeoServe Driller's Name: Rick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450844.86 Easting: 13065127.52 Casing Elevation: NA Borehole Depth: 48.25' bgs Surface Elevation: 861.95 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.3-OV159 Client: RACER Trust Location: Lansing, MI
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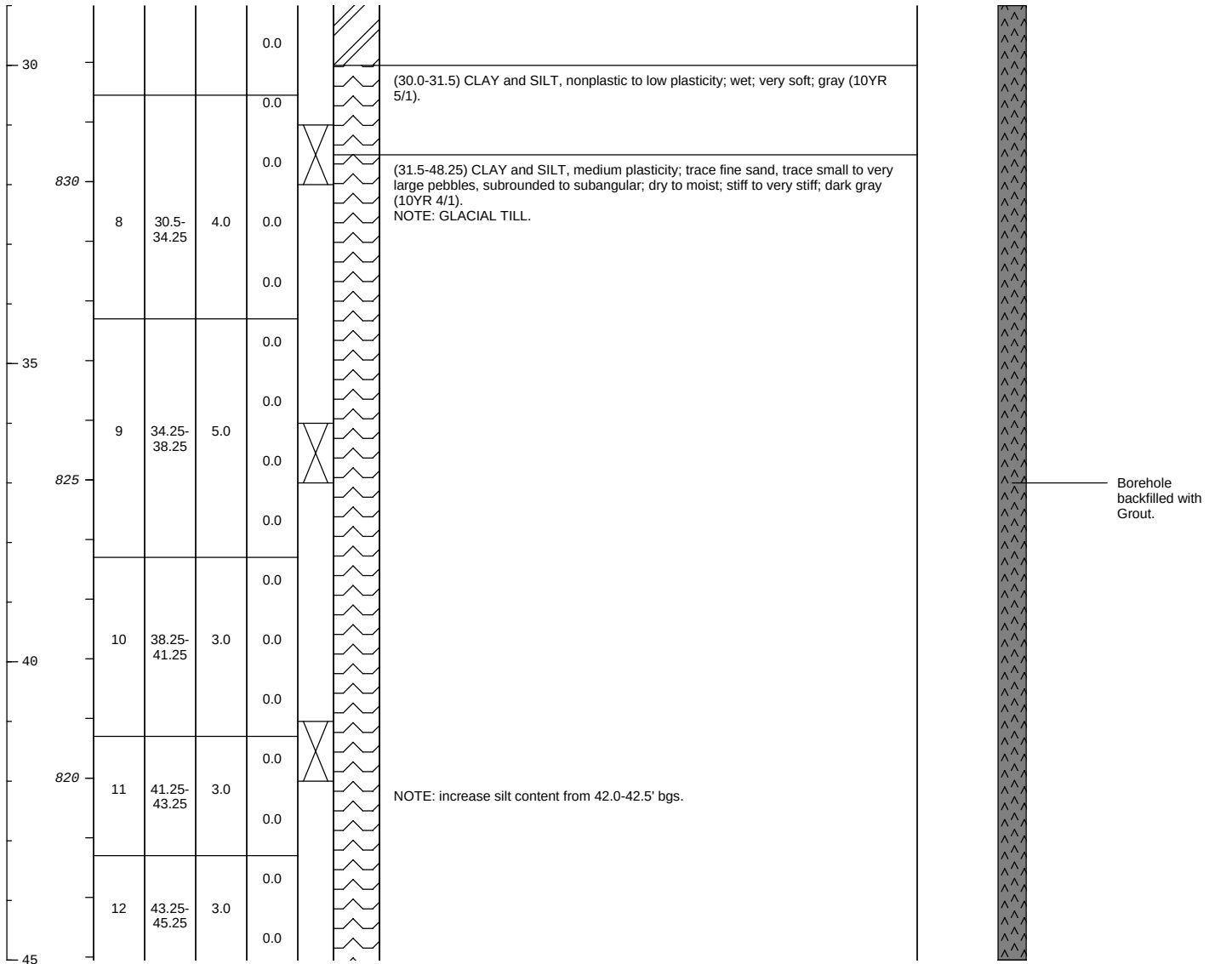
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 1.7'-2.0', 2.5'-7.5', and 10.8'-11.7' bgs Odor detected between 7.5'-10.8' bgs No staining observed
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Date Start/Finish: 5/10/12 Drilling Company: GeoServe Driller's Name: Rick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450844.86 Easting: 13065127.52 Casing Elevation: NA Borehole Depth: 48.25' bgs Surface Elevation: 861.95 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.3-OV159 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 1.7'-2.0', 2.5'-7.5', and 10.8'-11.7' bgs Odor detected between 7.5'-10.8' bgs No staining observed
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Date Start/Finish: 5/8/12 to 5/9/12 Drilling Company: GeoServe Driller's Name: Rick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451166.07 Easting: 13065474.37 Casing Elevation: NA Borehole Depth: 63.25' bgs Surface Elevation: 862.85 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.5-NP194 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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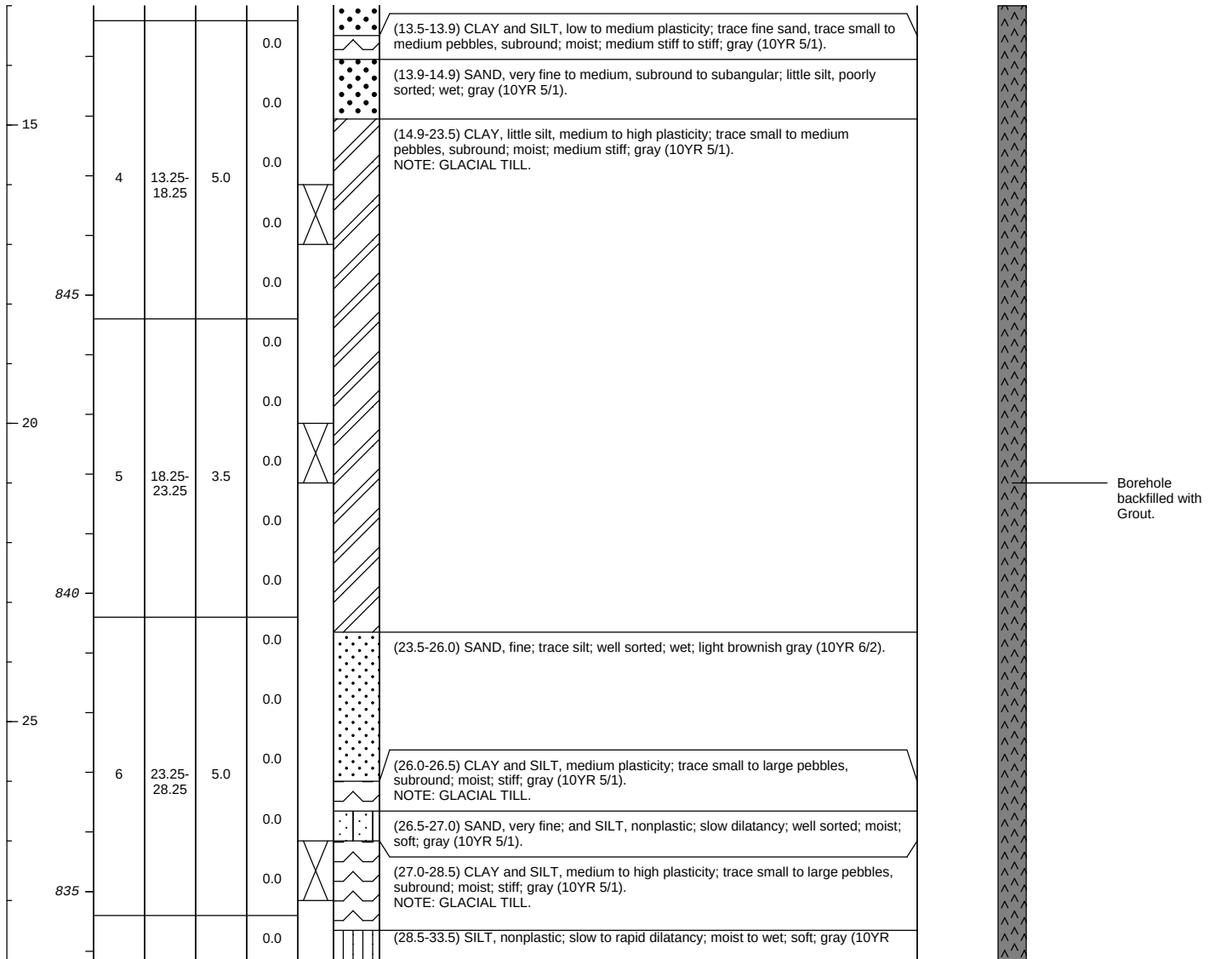
865									
0									
					0.0			(0.0-1.0) GRAVEL, small to large cobbles.	
					0.0			(1.5-2.5) SAND and GRAVEL, granules to large pebbles, subround to subangular; poorly sorted; moist; brown (10YR 4/3). NOTE: FILL.	
860	1	0.0-5.0	5.0	0.0				(2.5-10.5) SAND, very fine to fine, trace granules, subangular; well sorted; moist to wet; dark yellowish brown (10YR 4/4). NOTE: FILL.	
					1.2				
					0.0			NOTE: wet at 4.0' bgs.	
5					0.1				
	2	5.0-8.25	1.0	0.1					
855					0.0				
					0.0				
10					0.0			(10.5-10.8) CLAY, trace silt, medium to high plasticity; and SAND, trace small to large pebbles, subround; moist; medium stiff to stiff; dark gray (10YR 4/1).	
	3	8.25-13.25	3.0		0.0			(10.8-13.5) SAND, fine to coarse, trace granules to small pebbles, subangular; little silt; poorly sorted; wet; very dark gray (10YR 3/1).	
					0.0				
850					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-10.5', 10.8'-13.5', 13.9'-14.9', and 23.5'-26.0' bgs No odor or staining observed
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Date Start/Finish: 5/8/12 to 5/9/12 Drilling Company: GeoServe Driller's Name: Rick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451166.07 Easting: 13065474.37 Casing Elevation: NA Borehole Depth: 63.25' bgs Surface Elevation: 862.85 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.5-NP194 Client: RACER Trust Location: Lansing, MI
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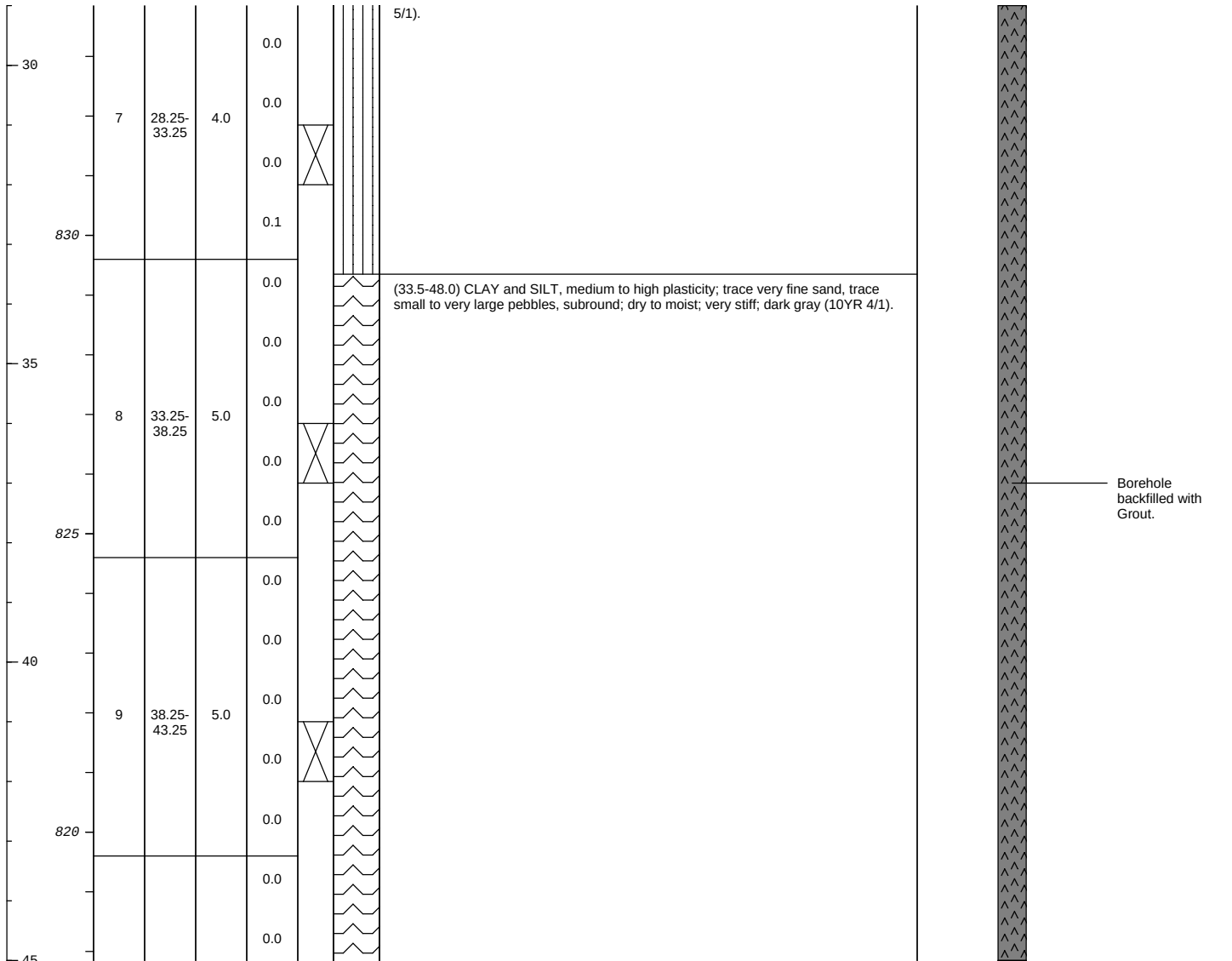
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-10.5', 10.8'-13.5', 13.9'-14.9', and 23.5'-26.0' bgs No odor or staining observed
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Date Start/Finish: 5/8/12 to 5/9/12 Drilling Company: GeoServe Driller's Name: Rick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451166.07 Easting: 13065474.37 Casing Elevation: NA Borehole Depth: 63.25' bgs Surface Elevation: 862.85 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.5-NP194 Client: RACER Trust Location: Lansing, MI
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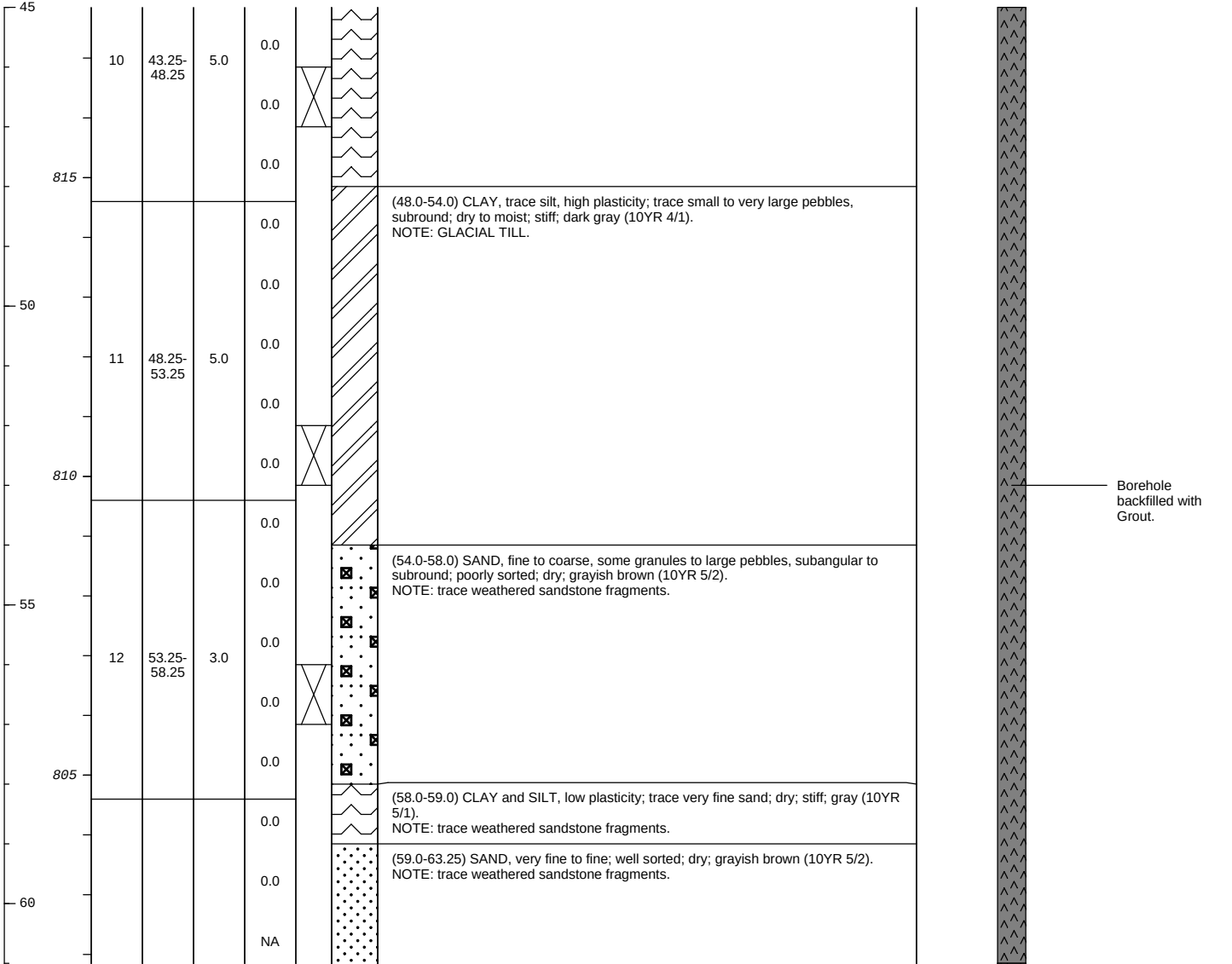
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-10.5', 10.8'-13.5', 13.9'-14.9', and 23.5'-26.0' bgs No odor or staining observed
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Date Start/Finish: 5/8/12 to 5/9/12 Drilling Company: GeoServe Driller's Name: Rick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451166.07 Easting: 13065474.37 Casing Elevation: NA Borehole Depth: 63.25' bgs Surface Elevation: 862.85 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.5-NP194 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-10.5', 10.8'-13.5', 13.9'-14.9', and 23.5'-26.0' bgs No odor or staining observed
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Date Start/Finish: 5/8/12 to 5/9/12 Drilling Company: GeoServe Driller's Name: Rick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451166.07 Easting: 13065474.37 Casing Elevation: NA Borehole Depth: 63.25' bgs Surface Elevation: 862.85 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.5-NP194 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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800	13	58.25-63.25	5.0	NA	NA				
65								End of boring at 63.25' bgs	
795									
70									
790									
75									

	Remarks: BGS = Below ground surface Groundwater detected between 4.0'-10.5', 10.8'-13.5', 13.9'-14.9', and 23.5'-26.0' bgs No odor or staining observed
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Date Start/Finish: 5/17/12-5/18/12 Drilling Company: GeoServ Driller's Name: Dean G Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451290.44 Easting: 13065616.41 Casing Elevation: NA Borehole Depth: 25.75' bgs Surface Elevation: 865.48 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.6-ND208 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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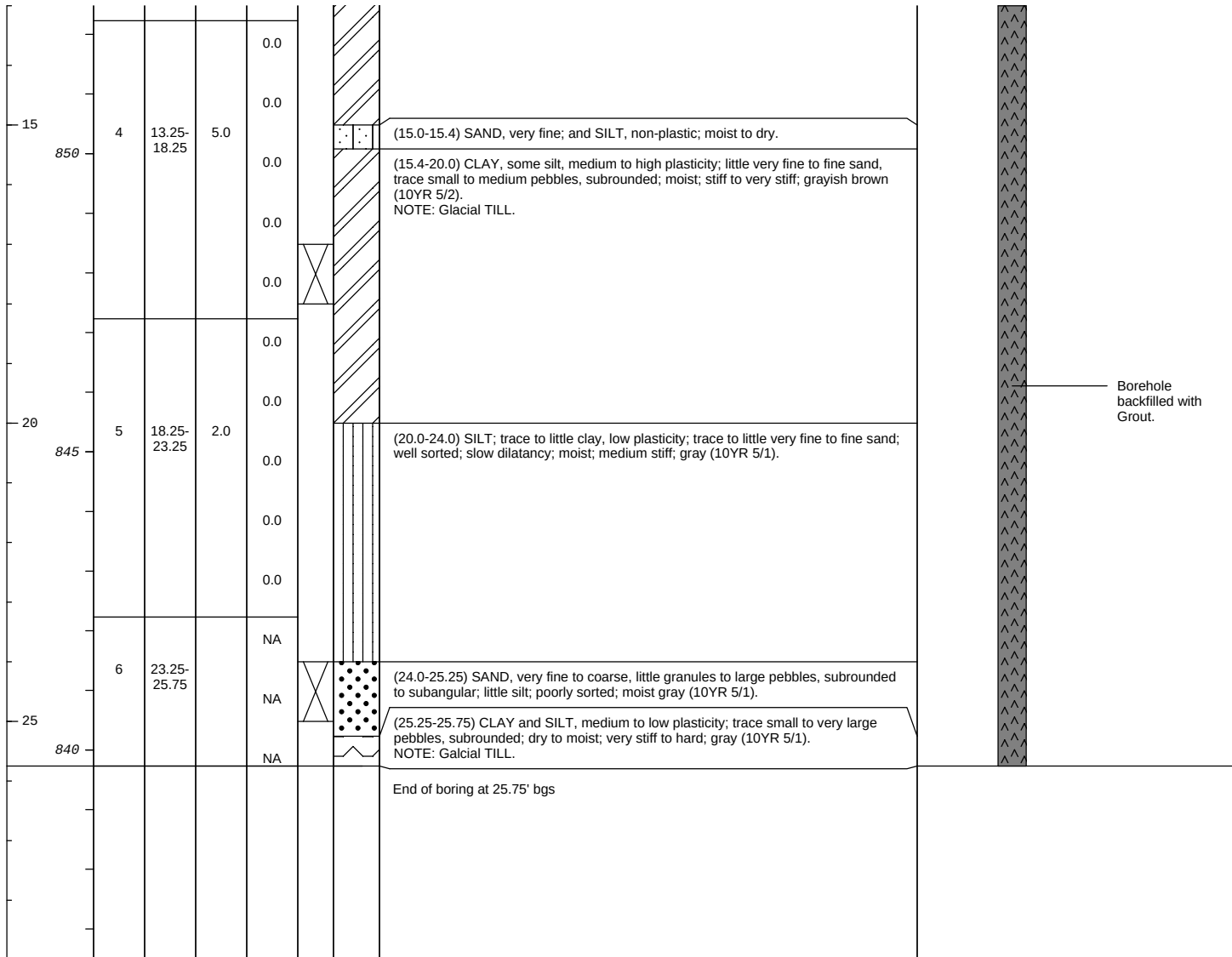
0	865	1	0.0-3.25	2.5	0.0	NA		(0.0-0.5) CONCRETE	
					0.0			(0.5-11.0) CLAY, some silt, medium to high plasticity; trace very fine to fine sand, trace small to large pebbles, subrounded; moist; stiff; yellowish brown (10YR 5/6) and gray (10YR 5/1) mottled.	
					0.0				
5	860	2	3.25-8.25	5.0	0.0				
					0.0				
					0.0				
					0.0				
					0.0				
					0.0				
10	855	3	8.25-13.25	5.0	0.0			NOTE: decrease in plasticity to low to medium; increase in silt and very fine sand; at 8.5' bgs.	
					0.0			NOTE: very fine to fine sand seam; moist; Glacial TILL; at 10.0' bgs.	
					0.0			(11.0-15.0) CLAY, some silt, medium to high plasticity; little very fine to fine sand, trace small to medium pebbles, subrounded; moist; stiff to very stiff; grayish brown (10YR 5/2). NOTE: Glacial TILL.	
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Date Start/Finish: 5/17/12-5/18/12 Drilling Company: GeoServ Driller's Name: Dean G Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451290.44 Easting: 13065616.41 Casing Elevation: NA Borehole Depth: 25.75' bgs Surface Elevation: 865.48 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.6-ND208 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface No Groundwater detected No Odor or Staining detected
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Date Start/Finish: 5/22/12-5/23/12 Drilling Company: GeoServ Driller's Name: James Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451268.82 Easting: 13066081.71 Casing Elevation: NA Borehole Depth: 33.25' bgs Surface Elevation: 869.86 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.6-NF255 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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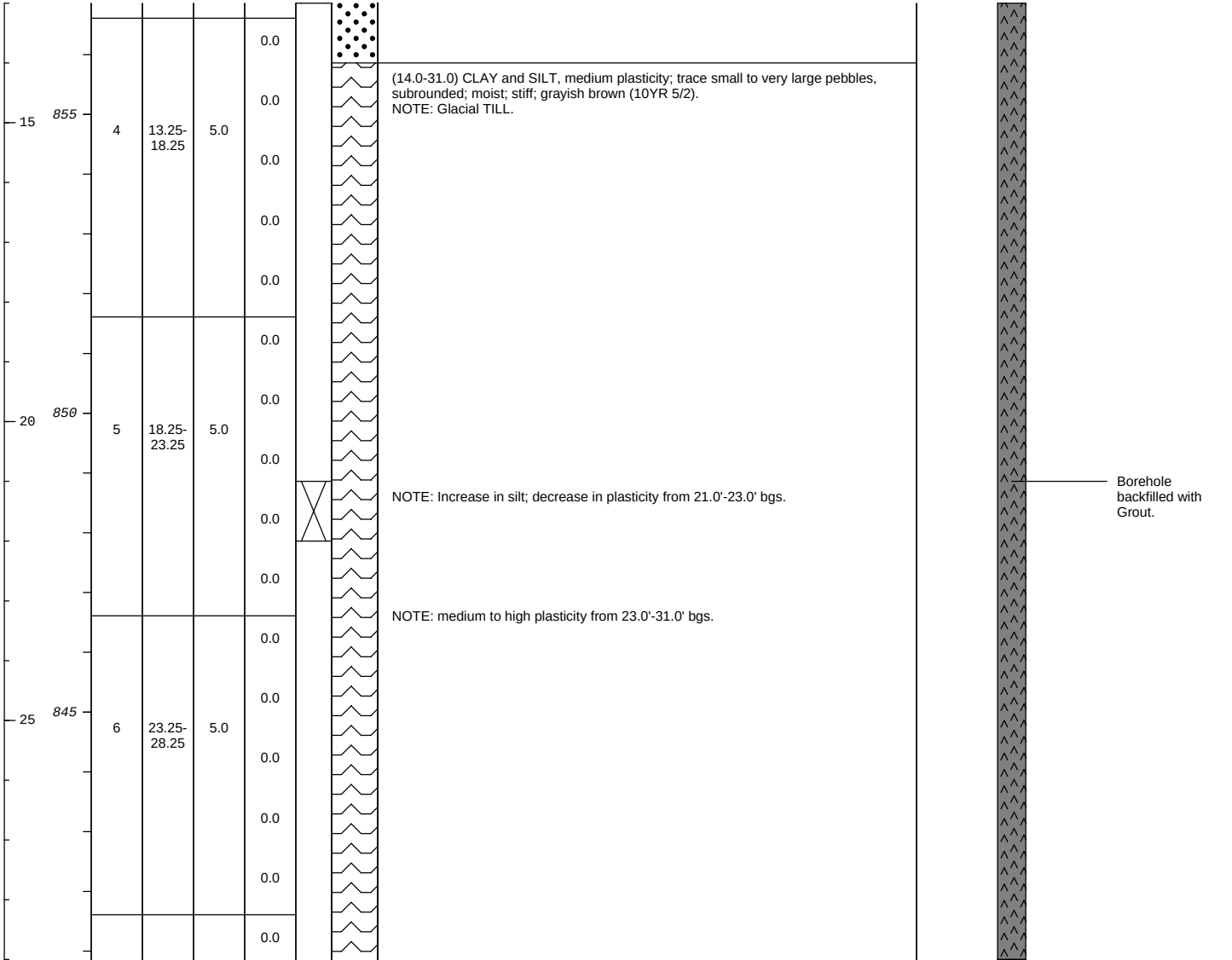
0	870								
		1	0.0-3.25	3.0	0.0	NA		(0.0-0.5) CONCRETE	
					0.1			(0.5-5.3) SAND, fine to medium, little granules, trace small to medium pebbles, subrounded to subangular; trace silt; well sorted; dry to moist; yellowish brown (10YR 5/6). NOTE: FILL.	
5	865	2	3.25-8.25	5.0	0.0			(5.3-5.9) ASPHALT and CONCRETE; crushed. NOTE: FILL.	
					0.1			(5.9-7.9) CLAY, some silt, low plasticity; little fine to medium sand, trace small to medium pebbles, subrounded to subangular; dry to moist; stiff to very stiff; brown (10YR 4/3). NOTE: FILL.	
					0.1			(7.9-8.2) SAND, medium; and GRAVEL, granules to medium pebbles, subrounded to subangular; trace to little silt; poorly sorted; moist; very dark gray (10YR 3/1). NOTE: FILL.	
10	860	3	8.25-13.25	5.0	0.0			(8.2-10.5) CLAY, some silt, medium to high plasticity; some fine to medium sand, subrounded; moist; medium stiff; dark gray (10YR 4/1). NOTE: Wood found at 8.5' bgs.	
					0.0			(10.5-14.0) SAND, fine to coarse, some granules, trace small to very large pebbles, subangular; little silt; poorly sorted; wet; grayish brown (10YR 5/2).	
					0.0				
					0.0				
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 10.5'-14.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/22/12-5/23/12 Drilling Company: GeoServ Driller's Name: James Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451268.82 Easting: 13066081.71 Casing Elevation: NA Borehole Depth: 33.25' bgs Surface Elevation: 869.86 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.6-NF255 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 10.5'-14.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/22/12-5/23/12 Drilling Company: GeoServ Driller's Name: James Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451268.82 Easting: 13066081.71 Casing Elevation: NA Borehole Depth: 33.25' bgs Surface Elevation: 869.86 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.6-NF255 Client: RACER Trust Location: Lansing, MI
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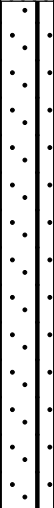
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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30	840	7	28.25-33.25	5.0	0.0				
					0.0				
					0.0			(31.0-33.25) CLAY and SILT, medium plasticity; trace small to large pebbles, little fine sand, subrounded; moist; stiff to very stiff; gray (10YR 5/1). NOTE: Glacial TILL.	
					0.0			NOTE: Dry to moist; fine sand seam from 32.5'-32.7' bgs.	
								End of Boring 33.25' bgs	
35	835								
40	830								
45	825								

	Remarks: BGS = Below ground surface Groundwater detected between 10.5'-14.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/18/21-5/21/12 Drilling Company: GeoServ Driller's Name: James Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451152.01 Easting: 13065802.22 Casing Elevation: NA Borehole Depth: 28.25' bgs Surface Elevation: 867.69 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.6-NR227 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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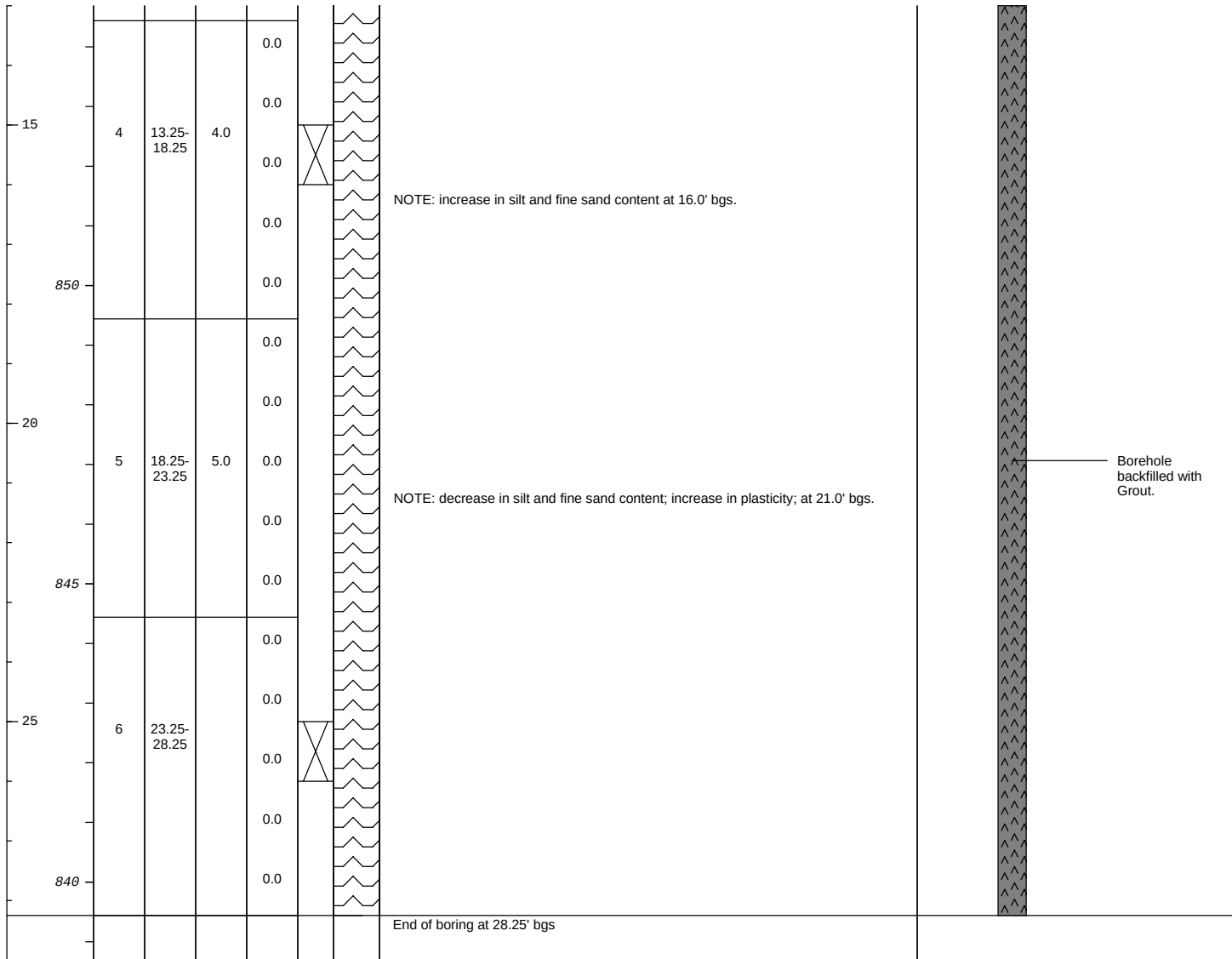
870									
0									
		1	0.0-3.25	25.	0.0	NA		(0.0-0.5) CONCRETE	
865					0.0			(0.5-7.75) SAND, medium to very coarse, some small to very large pebbles, subangular; some silt; poorly sorted; moist to wet; very dark gray (10YR 3/1) to black (10YR 2/1). NOTE: FILL. NOTE: staining from 0.5'-7.75' bgs.	
5		2	3.25-8.25	2.5	0.0				
860					0.0			(7.75-11.0) CLAY, little silt, high plasticity; trace small to large pebbles, subrounded; moist; very soft to soft; dark gray (10YR 4/1). NOTE: Glacial TILL.	
10		3	8.25-13.25	5.0	0.0			(11.0-28.25) CLAY, some silt, medium plasticity; trace small to large pebbles, subrounded; moist; medium stiff to stiff; dark gray (10YR 4/1) to gray (10YR 5/1). NOTE: Glacial TILL.	
855					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 0.5'-7.75' bgs No Odor Staining detected between 0.5'-7.75' bgs
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Date Start/Finish: 5/18/21-5/21/12 Drilling Company: GeoServ Driller's Name: James Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451152.01 Easting: 13065802.22 Casing Elevation: NA Borehole Depth: 28.25' bgs Surface Elevation: 867.69 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.6-NR227 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 0.5'-7.75' bgs No Odor Staining detected between 0.5'-7.75' bgs
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Date Start/Finish: 5/16/12-5/17/12 Drilling Company: GeoServ Driller's Name: James Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451142.25 Easting: 13065604.81 Casing Elevation: NA Borehole Depth: 40.25' bgs Surface Elevation: 867.46 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A5.6-NS207 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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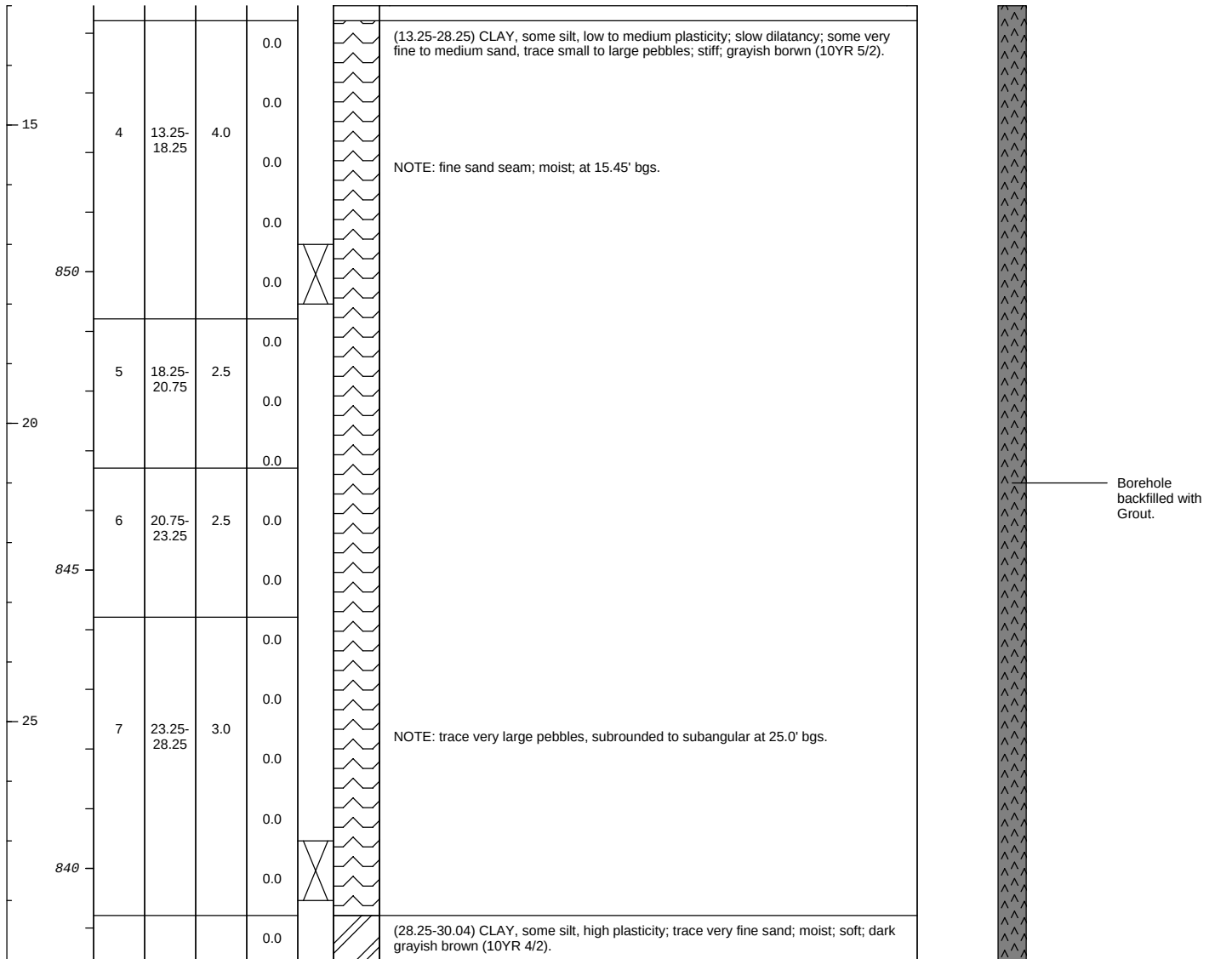
870									
0									
865		1	0.0-3.25	1.8	NA			(0.0-1.0) CONCRETE	
					0.0			NOTE: high plasticity; slightly moist; medium stiff to soft; at 18.0' bgs.	
					0.0			(1.0- 4.0) SAND, very fine to medium, little coarse sand to medium pebbles, subangular; little silt; poorly sorted; dry to moist; yellowish brown (10YR 5/6).	
					0.0			(4.0-5.0) No Recovery	
5		2	3.25-8.25	1.5				(5.0-13.0) SAND, very fine to medium, little coarse sand to medium pebbles, subangular; little silt; poorly sorted; dry to moist; yellowish brown (10YR 5/6).	
					0.0				
860					0.0				
					0.0				
					0.0			NOTE: color change to black; wet; at 8.25' bgs.	
10		3	8.25-13.25	1.0					
					0.0				
					0.0				
					0.0				
855					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected at 8.25' and between 32.6'-38.3' and 39.05'-39.25' bgs No odor or staining observed
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Date Start/Finish: 5/16/12-5/17/12 Drilling Company: GeoServ Driller's Name: James Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451142.25 Easting: 13065604.81 Casing Elevation: NA Borehole Depth: 40.25' bgs Surface Elevation: 867.46 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A5.6-NS207 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected at 8.25' and between 32.6'-38.3' and 39.05'-39.25' bgs No odor or staining observed
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Date Start/Finish: 5/16/12-5/17/12 Drilling Company: GeoServ Driller's Name: James Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451142.25 Easting: 13065604.81 Casing Elevation: NA Borehole Depth: 40.25' bgs Surface Elevation: 867.46 Descriptions By: Meryl Hicks	Well/Boring ID: VAP-A5.6-NS207 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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30		8	28.25-33.25	5.0	0.0			(30.04-32.6) CLAY, some silt, low plasticity; little fine to coarse sand, little granules to very large pebbles, subrounded to subangular; medium stiff to stiff; dark grayish brown (10YR 4/2).	
835					0.0				
		9	33.25-35.75	2.5	0.0			(32.6-38.3) SILT, non-plastic, rapid dilatancy; trace very fine sand; well sorted; wet; dark grayish brown (10YR 4/2).	
35					0.0				
		10	35.75-38.25	2.5	0.0			(38.3-39.05) CLAY, some silt, medium plasticity; little fine to coarse sand, little granules, subrounded to subangular; medium stiff; dark grayish brown (10YR 4/2).	
830					0.0			(39.05-39.25) SILT, non-plastic, rapid dilatancy; trace very fine sand; well sorted; wet; dark grayish brown (10YR 4/2).	
		11	38.25-40.25	2.5	0.0			(39.25-40.25) CLAY, some silt, medium plasticity; little very fine to coarse sand, little granules to medium pebbles, subrounded to subangular; medium stiff; dark grayish brown (10YR 4/2).	
40								End of boring at 40.25' bgs	
825									
45									

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected at 8.25' and between 32.6'-38.3' and 39.05'-39.25' bgs No odor or staining observed
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Date Start/Finish: 5/21/12-5/22/12 Drilling Company: GeoServ Driller's Name: James Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 451063.85 Easting: 13066079.23 Casing Elevation: NA Borehole Depth: 28.25.0' bgs Surface Elevation: 870.64 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.6-NZ254 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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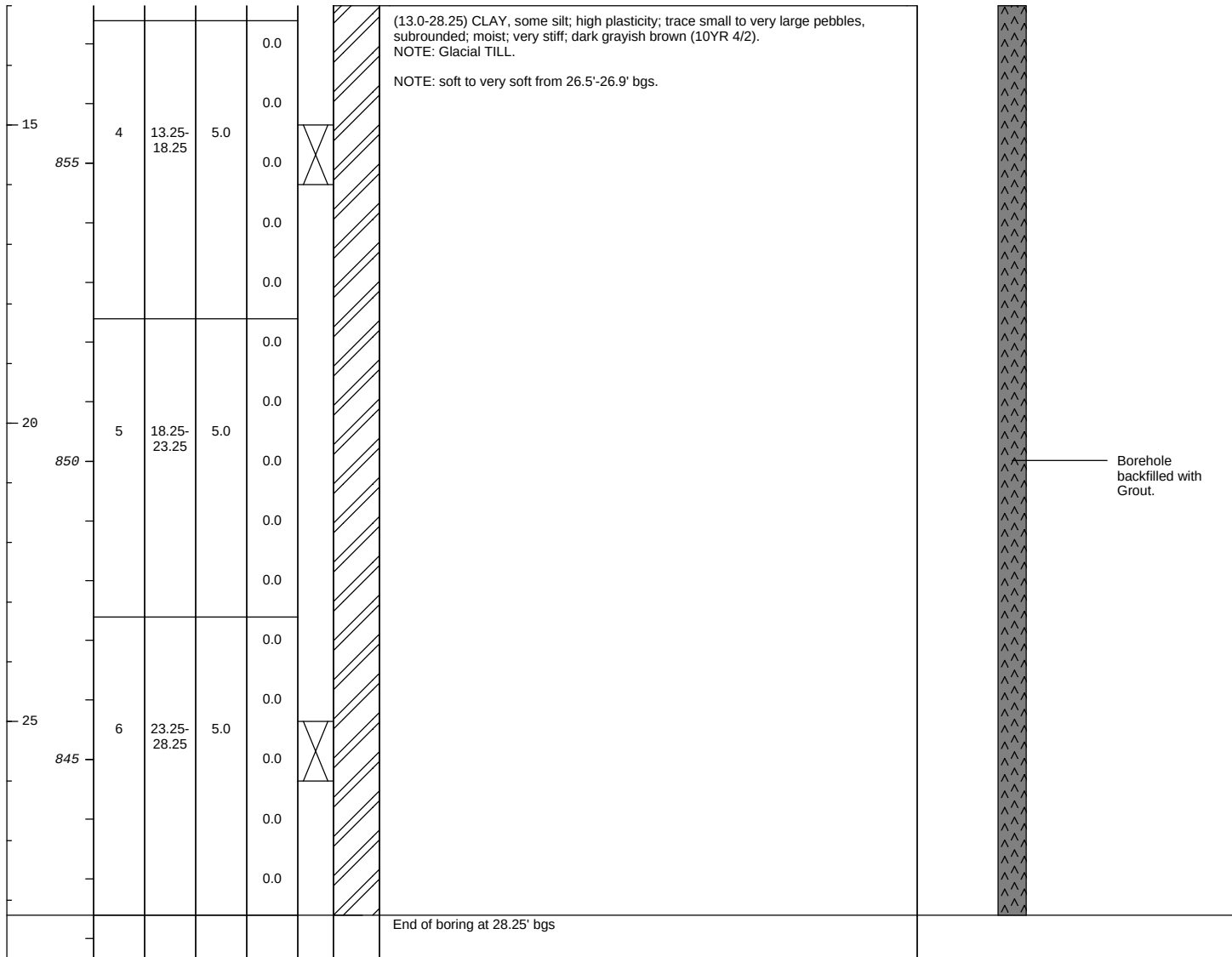
0	870	1	0.0-3.25	3.0	NA			(0.0-0.5) CONCRETE	
					0.0			(0.5-1.8) CLAY, some silt, medium plasticity; little fine to medium sand, trace small to large pebbles, subangular to subrounded; dry to moist; stiff; brown (10YR 4/3). NOTE: FILL.	
					0.0			(1.8-2.1) SAND, fine to medium, subangular; little silt; well sorted; dry to moist; very dark gray (10YR 3/1). NOTE: FILL.	
					0.0			(2.1-2.4) CONCRETE, crushed.	
		2	3.25-8.25	4.0	0.0			(2.4-6.0) CLAY, some silt, medium plasticity; little fine sand, trace small to medium pebbles, subrounded; dry to moist; stiff; grayish brown (10YR 5/2).	
5	865				0.0			(6.0-7.0) SAND, fine to medium, subrounded; some silt; well sorted; moist to wet; grayish brown (10YR 5/2).	
					0.0			(7.0-10.5) CLAY, some silt, medium plasticity; some fine to medium sand, trace small to medium pebbles, subrounded; moist; stiff; grayish brown (10YR 5/2). NOTE: Glacial TILL.	
		3	8.25-13.25	5.0	0.0			(10.5-13.0) CLAY, some silt, medium plasticity; trace sand, trace small to large pebbles, subrounded; moist; stiff to very stiff; yellowish brown (10YR 5/4). NOTE: Glacial TILL.	
10	860				0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 6.0'-7.0' bgs No Odor or Staining detected
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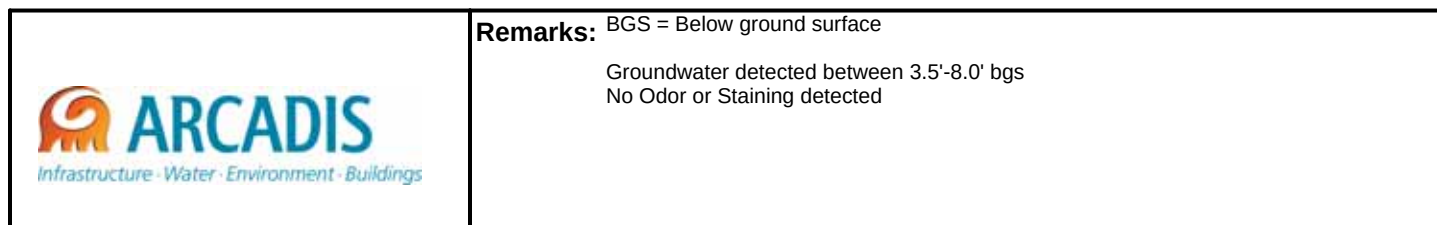
Date Start/Finish: 5/21/12-5/22/12 Drilling Company: GeoServ Driller's Name: James Drilling Method: Geoprobe Sampling Method: Macrocore Rig Type: Geoprobe	Northing: 451063.85 Easting: 13066079.23 Casing Elevation: NA Borehole Depth: 28.25.0' bgs Surface Elevation: 870.64 Descriptions By: Austin Westhuis	Well/Boring ID: VAP-A5.6-NZ254 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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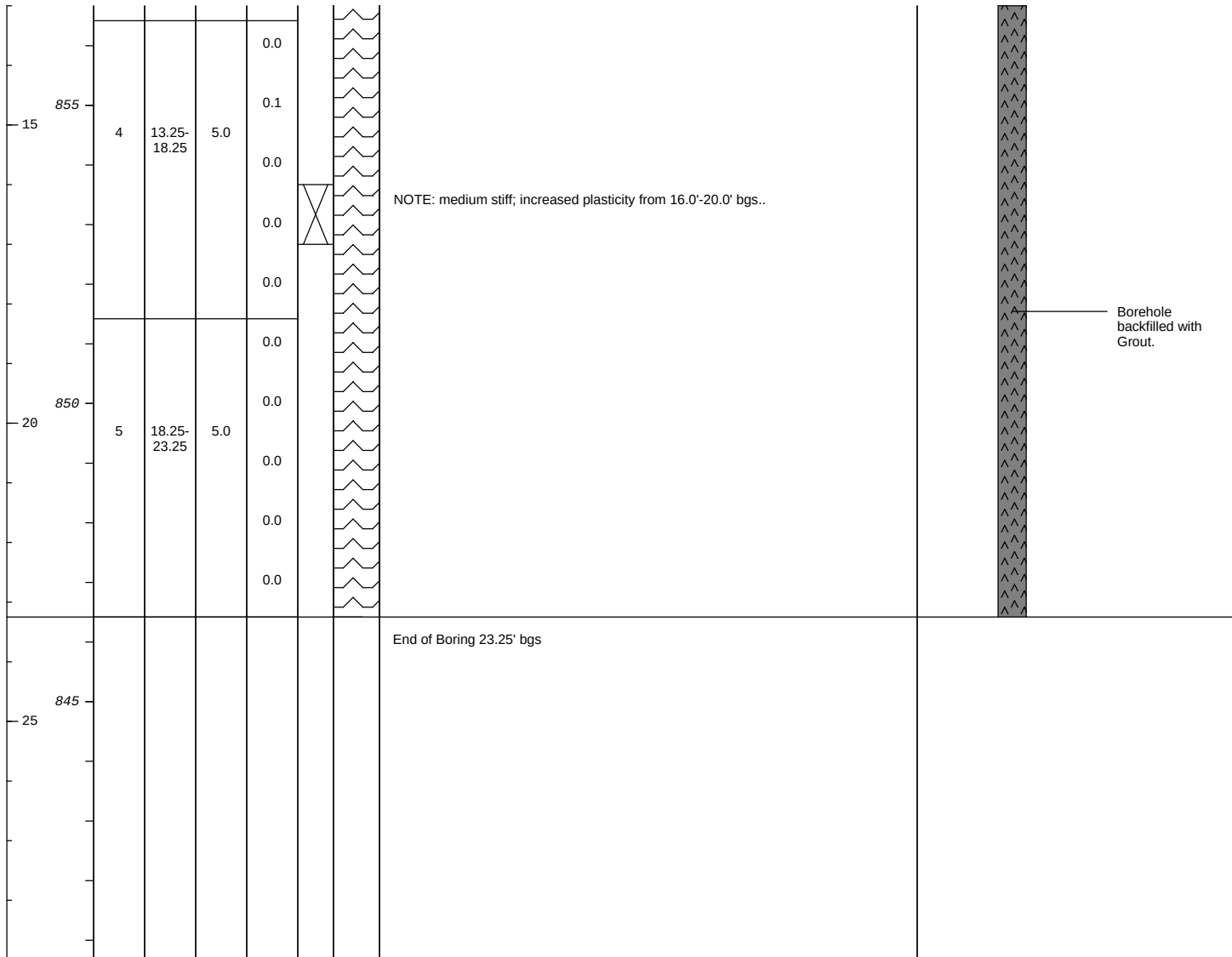
	Remarks: BGS = Below ground surface Groundwater detected between 6.0'-7.0' bgs No Odor or Staining detected
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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Date Start/Finish: 5/23/12-5/24/12 Drilling Company: GeoServ Driller's Name: James Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450959.08 Easting: 13065851.23 Casing Elevation: NA Borehole Depth: 23.25.0' bgs Surface Elevation: 869.67 Descriptions By: A. Westhuis	Well/Boring ID: VAP-A5.6-OK232 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 3.5'-8.0' bgs No Odor or Staining detected
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Date Start/Finish: 5/24/12-5/25/12 Drilling Company: GeoServ Driller's Name: James Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451566.43 Easting: 13066106.97 Casing Elevation: NA Borehole Depth: 48.3' bgs. Surface Elevation: 858.53 Descriptions By: A. Westhuis	Well/Boring ID: VAP-A5.7-MB257 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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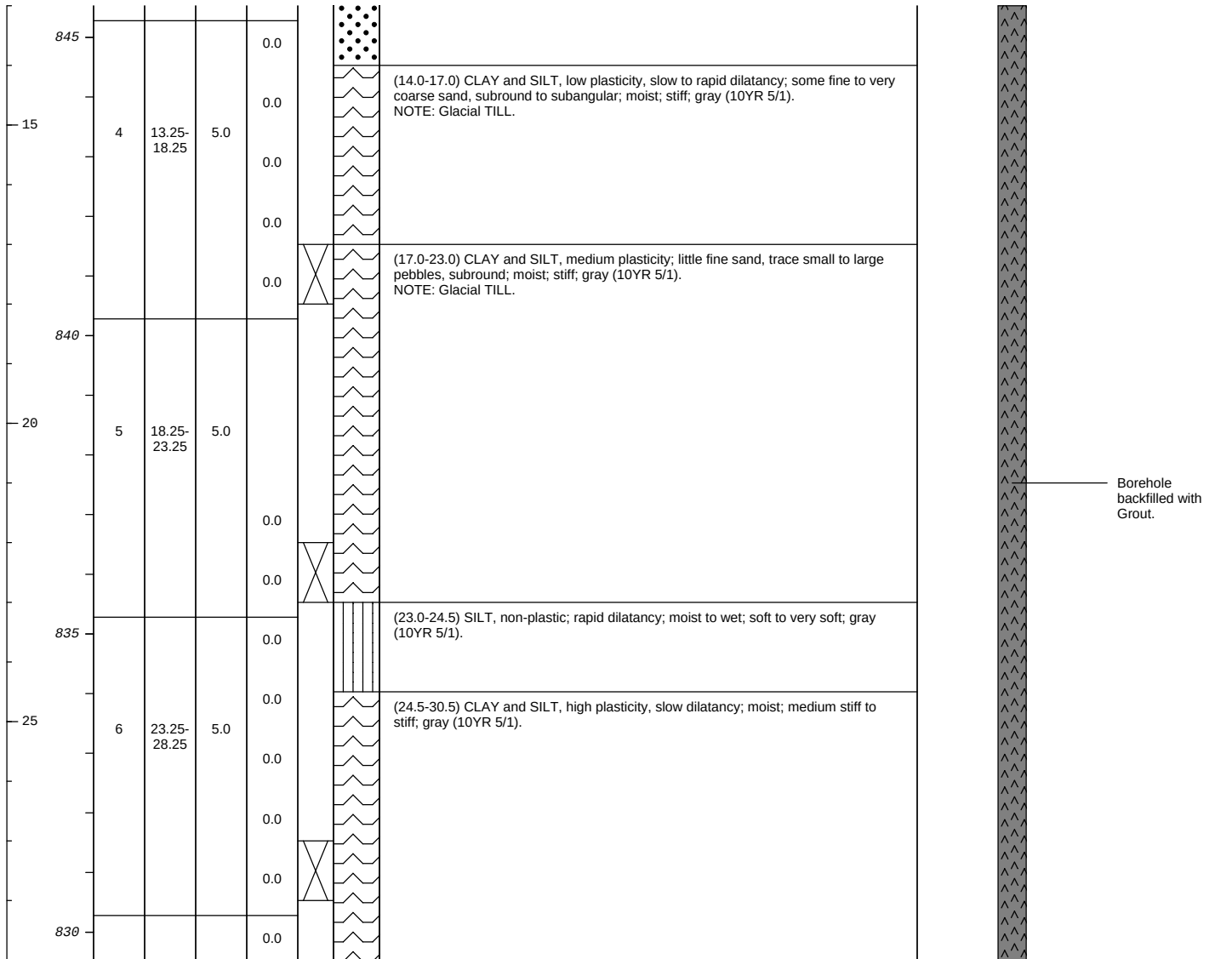
860									
0									
		1	0.0-3.25	2.0	0.3			(0.0-0.8) ASPHALT	
					0.1			(0.8-3.3) CLAY, and SILT, low plasticity; little very fine to fine sand, trace granules to small pebbles, round to subangular; dry; very stiff; dark yellowish brown (10YR 4/4).	
					0.0				
855					0.0			(3.3-7.0) CLAY, and SILT, medium plasticity; little very fine sand; dry to moist; stiff; gray (10YR 5/1) and dark yellowish brown (10YR 4/4).	
5		2	3.25-8.25	5.0	0.1				
					0.0				
					0.0			(7.0-7.5) SAND, very fine to fine, round to subround; trace silt; wet; well sorted; gray (10YR 6/1).	
					0.0			(7.5-9.5) SAND, very fine to very coarse, trace granules to small pebbles, subangular to subround; little silt; poorly sorted; wet; yellowish brown (10YR 5/4). NOTE: small (<1.0 cm) silt seams; interbedded; predominately sand.	
850					0.0				
					0.0			(9.5-12.0) CLAY and SILT, high plasticity; little fine sand, trace small to large pebbles, subround; moist; medium stiff to stiff; gray (10YR 5/1).	
10		3	8.25-13.25	5.0	0.0				
					0.0				
					0.0			(12.0-14.0) SAND, very fine to very coarse, trace to little granules, trace small pebbles, subangular to subround; little silt; poorly sorted; wet; gray (10YR 6/1).	
					0.0				

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected between 7.0'-9.5', 12.0'-14.0' and 23.0'-24.5' bgs No Odor or Staining detected
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Date Start/Finish: 5/24/12-5/25/12 Drilling Company: GeoServ Driller's Name: James Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451566.43 Easting: 13066106.97 Casing Elevation: NA Borehole Depth: 48.3' bgs. Surface Elevation: 858.53 Descriptions By: A. Westhuis	Well/Boring ID: VAP-A5.7-MB257 Client: RACER Trust Location: Lansing, MI
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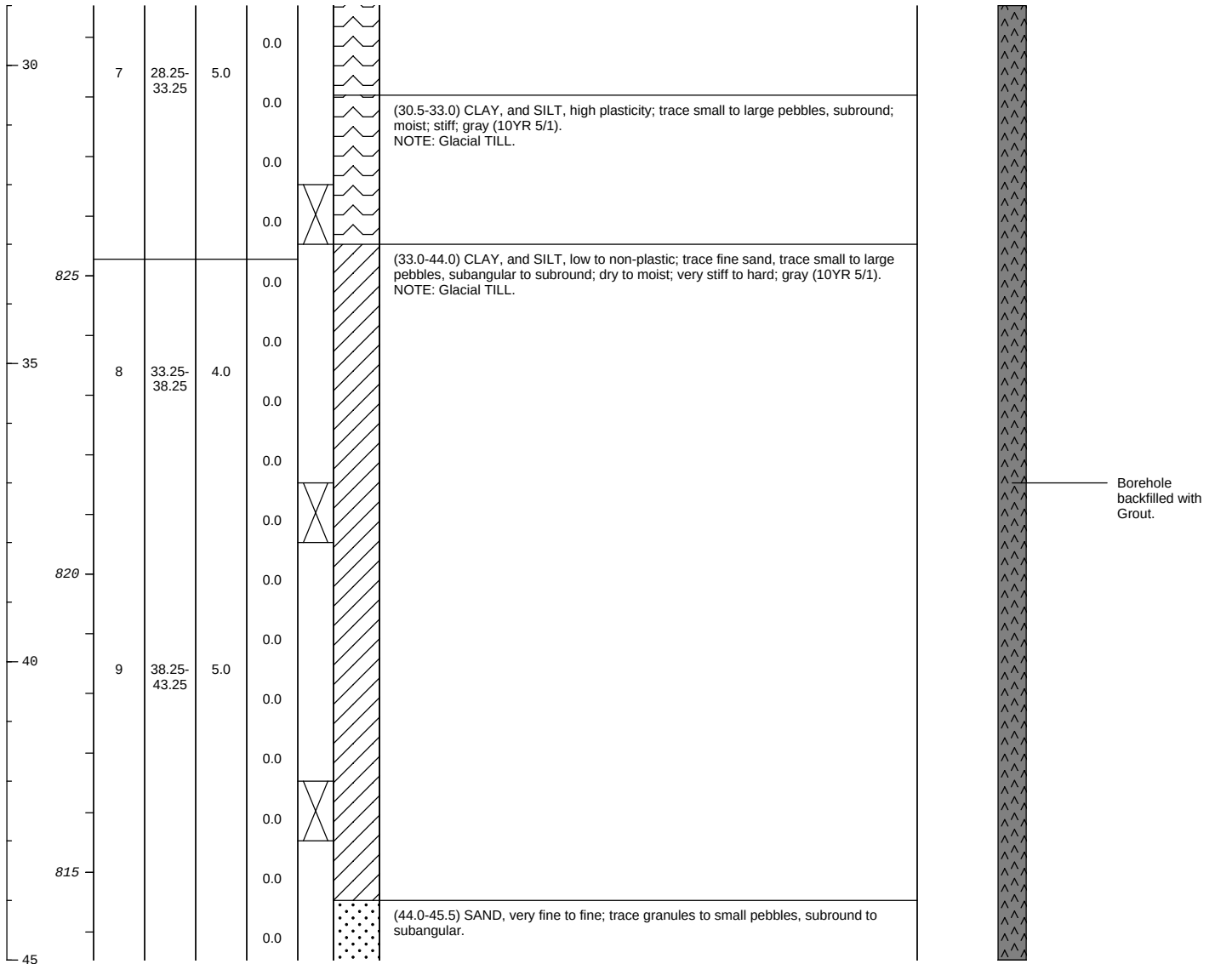
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 7.0'-9.5', 12.0'-14.0' and 23.0'-24.5' bgs No Odor or Staining detected
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Date Start/Finish: 5/24/12-5/25/12 Drilling Company: GeoServ Driller's Name: James Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451566.43 Easting: 13066106.97 Casing Elevation: NA Borehole Depth: 48.3' bgs. Surface Elevation: 858.53 Descriptions By: A. Westhuis	Well/Boring ID: VAP-A5.7-MB257 Client: RACER Trust Location: Lansing, MI
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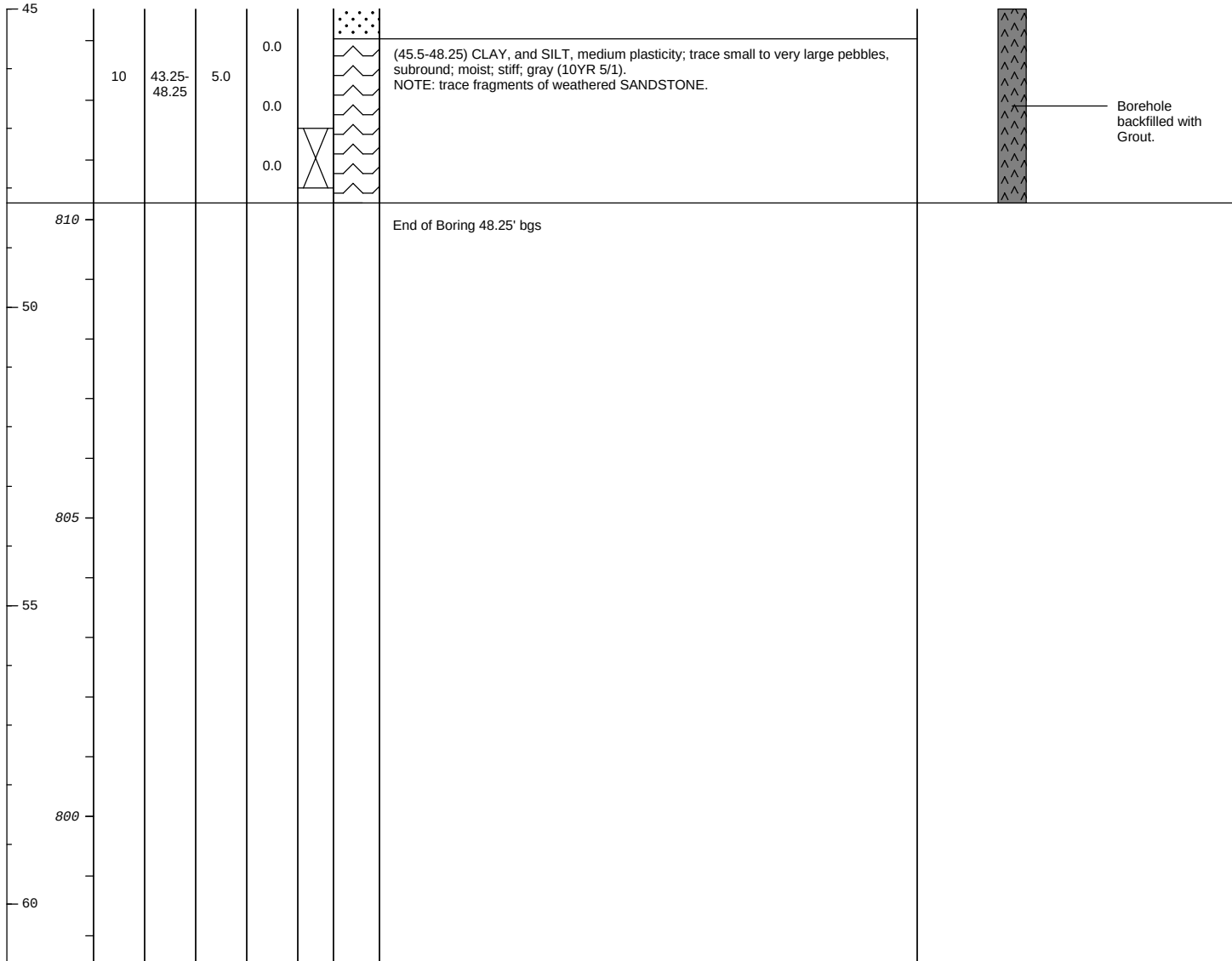
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 7.0'-9.5', 12.0'-14.0' and 23.0'-24.5' bgs No Odor or Staining detected
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Date Start/Finish: 5/24/12-5/25/12 Drilling Company: GeoServ Driller's Name: James Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451566.43 Easting: 13066106.97 Casing Elevation: NA Borehole Depth: 48.3' bgs. Surface Elevation: 858.53 Descriptions By: A. Westhuis	Well/Boring ID: VAP-A5.7-MB257 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected between 7.0'-9.5', 12.0'-14.0' and 23.0'-24.5' bgs No Odor or Staining detected
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Date Start/Finish: 5/25/12 Drilling Company: GeoServ Driller's Name: James Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451467.17 Easting: 13065966.32 Casing Elevation: NA Borehole Depth: 33.25' bgs Surface Elevation: 861.86 Descriptions By: A. Westhuis	Well/Boring ID: VAP-A5.7-ML243 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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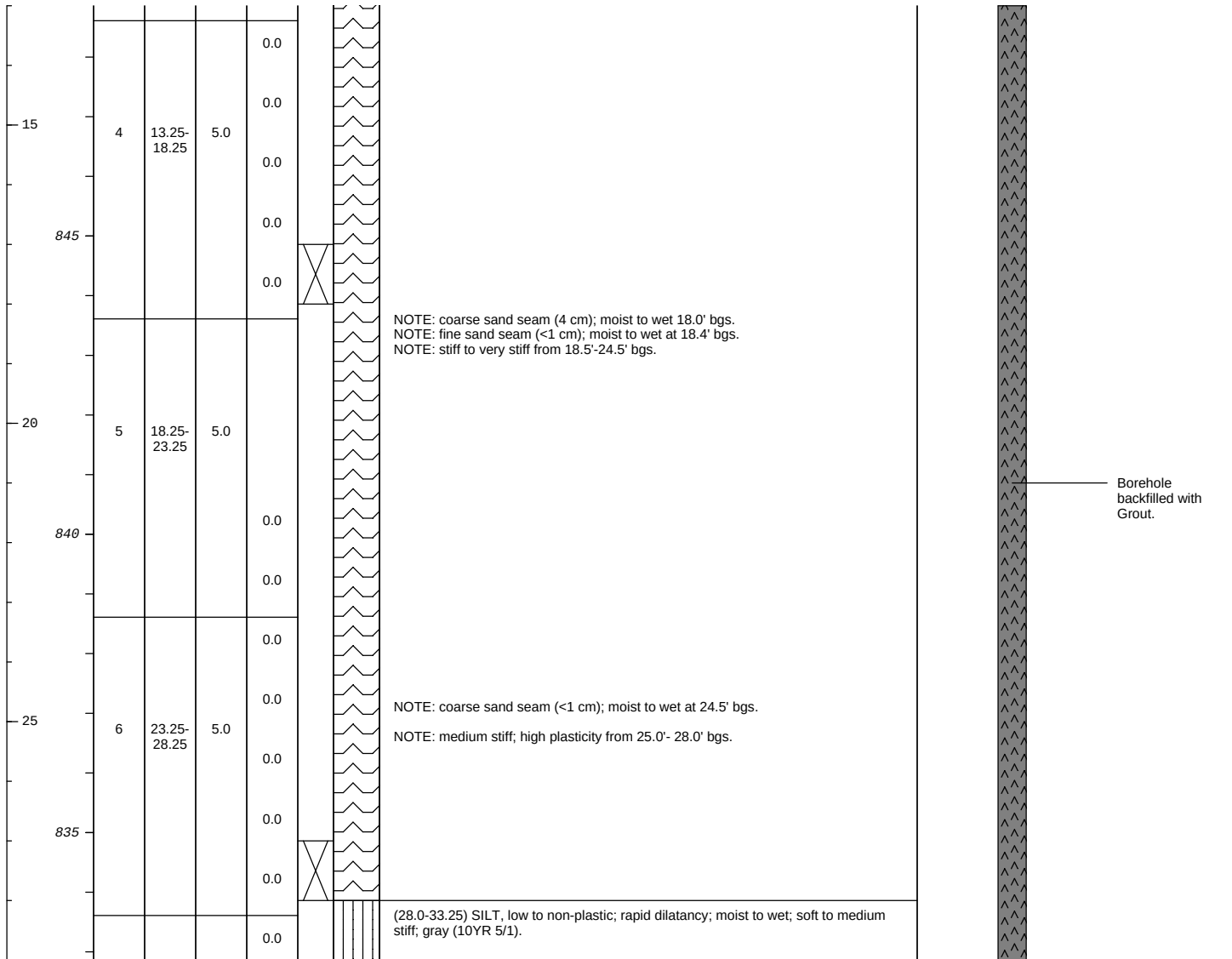
0									
860	1	0.0-3.25	2.5	0.0				(0.0-0.5) ASPHALT	
				0.1				(0.5-4.5) CLAY, and SILT, medium plasticity; trace to little fine sand, trace granules to medium pebbles, subrounded to subangular; dry to moist; stiff; dark yellowish brown (10YR 4/4).	
				0.0					
5	2	3.25-8.25	5.0	0.0				(4.5-5.5) CLAY, and SILT, high plasticity, slow dilatancy; moist; medium stiff; grayish brown (10YR 5/2).	
855				0.0				(5.5-11.0) CLAY, and SILT, medium plasticity; trace fine sand, trace granules to medium pebbles, subrounded to subangular; moist; stiff; dark yellowish brown (10YR 4/4).	
				0.0					
10	3	8.25-13.25	3.0	0.0					
850				0.0				(11.0-28.0) CLAY, and SILT, high plasticity; trace small to large pebbles, subrounded; moist; stiff; gray (10YR 5/1). NOTE: Glacial TILL.	
				0.0					

Borehole backfilled with Grout.

	Remarks: BGS = Below ground surface Groundwater detected at 18.0', 18.4', 24.5' and between 28.0'-33.25' bgs No Odor or Staining detected
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Date Start/Finish: 5/25/12 Drilling Company: GeoServ Driller's Name: James Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 451467.17 Easting: 13065966.32 Casing Elevation: NA Borehole Depth: 33.25' bgs Surface Elevation: 861.86 Descriptions By: A. Westhuis	Well/Boring ID: VAP-A5.7-ML243 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater detected at 18.0', 18.4', 24.5' and between 28.0'-33.25' bgs No Odor or Staining detected
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Date Start/Finish: 6/7/2012 Drilling Company: Geoserv Driller's Name: John and Chad Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprob	Northing: 449907.00 Easting: 13065440.70 Casing Elevation: NA Borehole Depth: 33.25' bgs Surface Elevation: 869.53 Descriptions By: A. Westhuis	Well/Boring ID: VAP-A6-SL191 Client: RACER Trust Location: Lansing, MI
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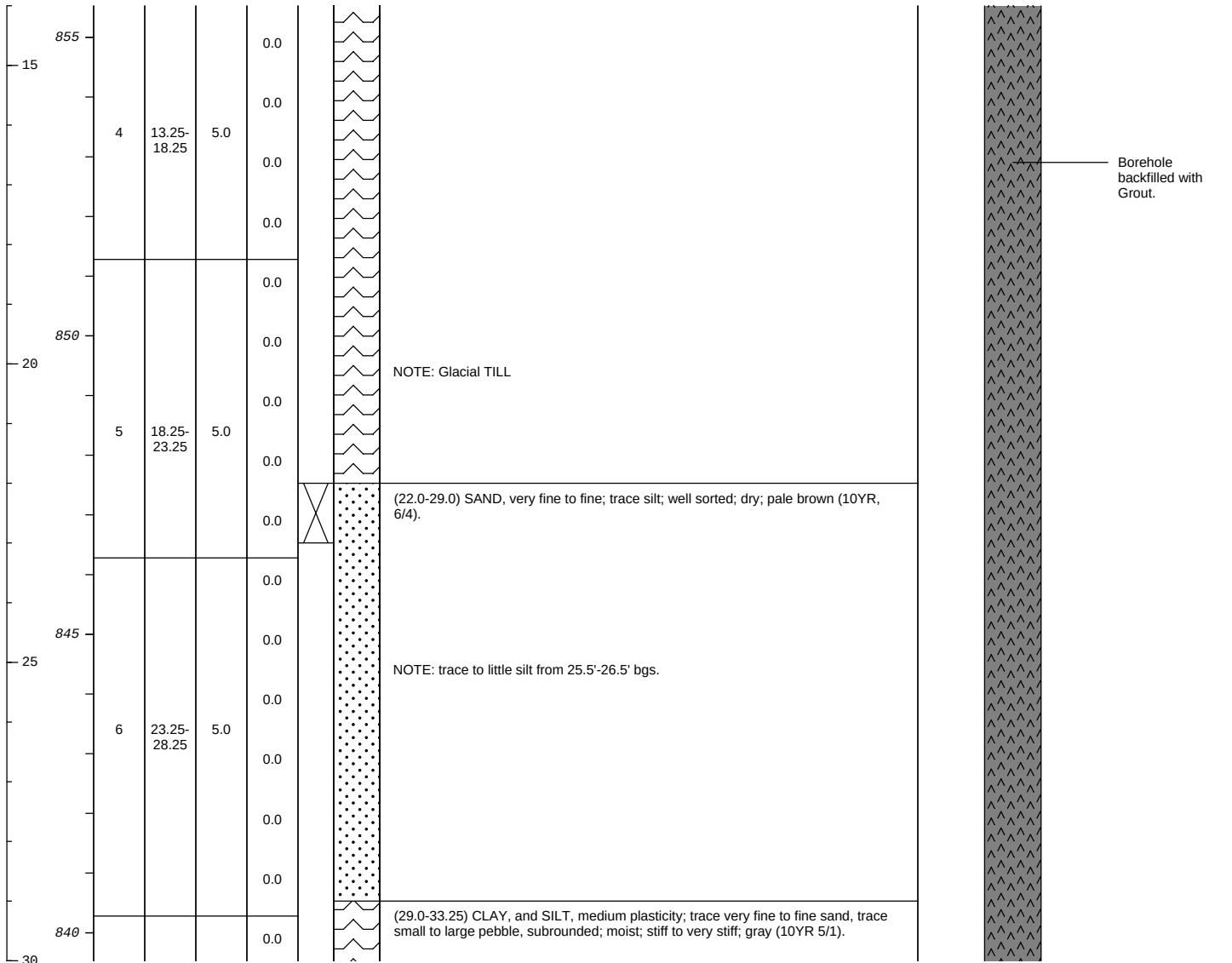
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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870									
0					0.0			(0-0.5) CONCRETE	
		1	0.0-3.25	2.5	0.0			(0.5-2.0) SAND, very fine to medium, trace granule to small pebble, subangular to subround; little silt; poorly sorted; dry to moist; yellowish brown (10YR 5/4).	
					0.0			NOTE: FILL	
					0.0			(2.0-7.0) CLAY, and SILT, high plasticity; trace very fine sand, subrounded; moist; stiff; yellowish brown (10YR 5/4).	
865					0.0				
5		2	3.25-8.25	4.0	0.0			NOTE: Glacial TILL	
					0.0				
					0.2			(7.0-7.4) SAND, very fine to medium, trace granule, subangular; some silt; poorly sorted; moist; yellowish brown (10YR 5/4).	
					0.1			(7.4-11.5) CLAY, some silt, low plasticity to non-plastic; little very fine to medium sand, subangular; slow dilatancy; moist; very soft to soft; yellowish brown (10YR 5/6).	
860					0.0				
10		3	8.25-13.25	5.0	0.0			(11.5-22.0) CLAY, and SILT, medium plasticity; some very fine to fine sand, trace small to large pebble, subrounded; moist; stiff to very stiff; gray (10YR 5/1).	
					0.1				
					0.0				

	Remarks: BGS = Below ground surface Groundwater encountered 38-40' bgs No Odor or Staining detected Groundwater Sample collected from 38-40' bgs.
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Date Start/Finish: 6/7/2012 Drilling Company: Geoserv Driller's Name: John and Chad Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprob	Northing: 449907.00 Easting: 13065440.70 Casing Elevation: NA Borehole Depth: 33.25' bgs Surface Elevation: 869.53 Descriptions By: A. Westhuis	Well/Boring ID: VAP-A6-SL191 Client: RACER Trust Location: Lansing, MI
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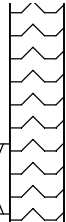
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater encountered 38-40' bgs No Odor or Staining detected Groundwater Sample collected from 38-40' bgs.
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Date Start/Finish: 6/7/2012 Drilling Company: Geoserv Driller's Name: John and Chad Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprob	Northing: 449907.00 Easting: 13065440.70 Casing Elevation: NA Borehole Depth: 33.25' bgs Surface Elevation: 869.53 Descriptions By: A. Westhuis	Well/Boring ID: VAP-A6-SL191 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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30		7	28.25-33.25	5.0	0.0 0.0 0.0			NOTE: Glacial TILL	
35	835							End of boring at 33.25' bgs	
40	830								
45	825								

	Remarks: BGS = Below ground surface Groundwater encountered 38-40' bgs No Odor or Staining detected Groundwater Sample collected from 38-40' bgs.
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Date Start/Finish: 6/5/2012 - 6/6/2012 Drilling Company: Geoserv Driller's Name: John and Chad Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 449821.11 Easting: 13065641.93 Casing Elevation: NA Borehole Depth: 55.75' bgs Surface Elevation: 869.30 Descriptions By: A. Westhuis	Well/Boring ID: VAP-A7-SU211 Client: RACER Trust Location: Lansing, MI
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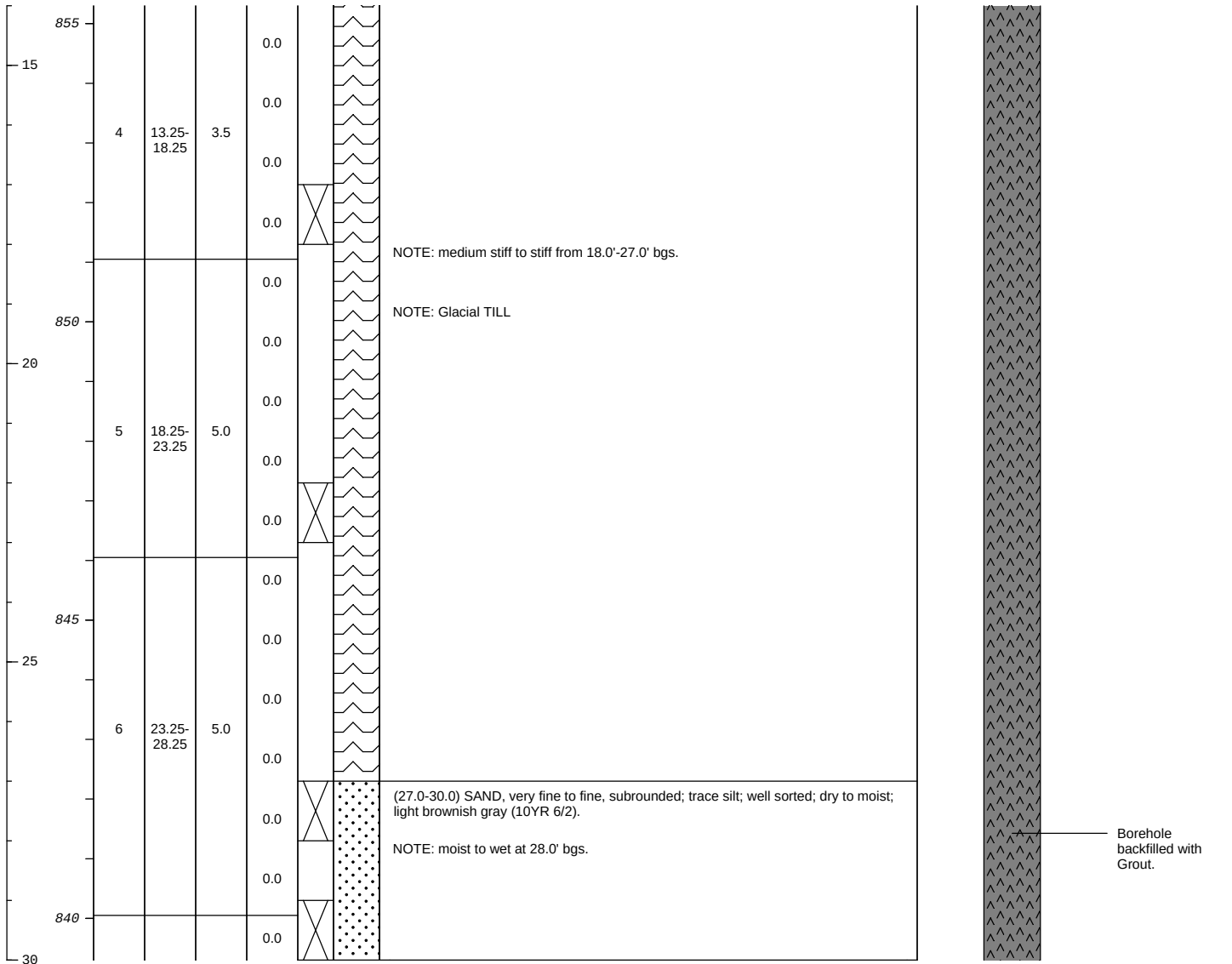
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870									
0								(0.0-0.5) CONCRETE	
		1	0.0-3.25	0.5	0.0			(0.5-7.0) SAND, fine to medium, trace granule to small pebble, subrounded to subangular; trace silt; poorly sorted; dry; yellowish brown (10YR 5/6).	
					0.0				
					0.0				
					0.0				
865					0.0				
5		2	3.25-8.25	4.0	0.0				
					0.0				
					0.0				
					0.2			(7.0-9.0) CLAY, and SILT, low to medium plasticity; trace fine sand, trace small pebble, subrounded; dry to moist; medium stiff to stiff; dark brown (10YR 3/3) to black (10YR 2/1). NOTE: staining; odor at 7.0' bgs.	
					0.1				
860					0.0			(9.0-27.0) CLAY, and SILT, high plasticity, trace fine sand, trace granule, subrounded; moist; soft to medium stiff; gray (10YR 5/1).	
10		3	8.25-13.25	4.0	0.0				
					0.0				
					0.0				
					0.1				
					0.0				

	Remarks: BGS = Below ground surface Groundwater encountered at 28.0' and 35.0' bgs Staining and odor observed at 7.0' bgs Groundwater Sample collected from 37-38' bgs Shake test 7-9' bgs: negative
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Date Start/Finish: 6/5/2012 - 6/6/2012 Drilling Company: Geoserv Driller's Name: John and Chad Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 449821.11 Easting: 13065641.93 Casing Elevation: NA Borehole Depth: 55.75' bgs Surface Elevation: 869.30 Descriptions By: A. Westhuis	Well/Boring ID: VAP-A7-SU211 Client: RACER Trust Location: Lansing, MI
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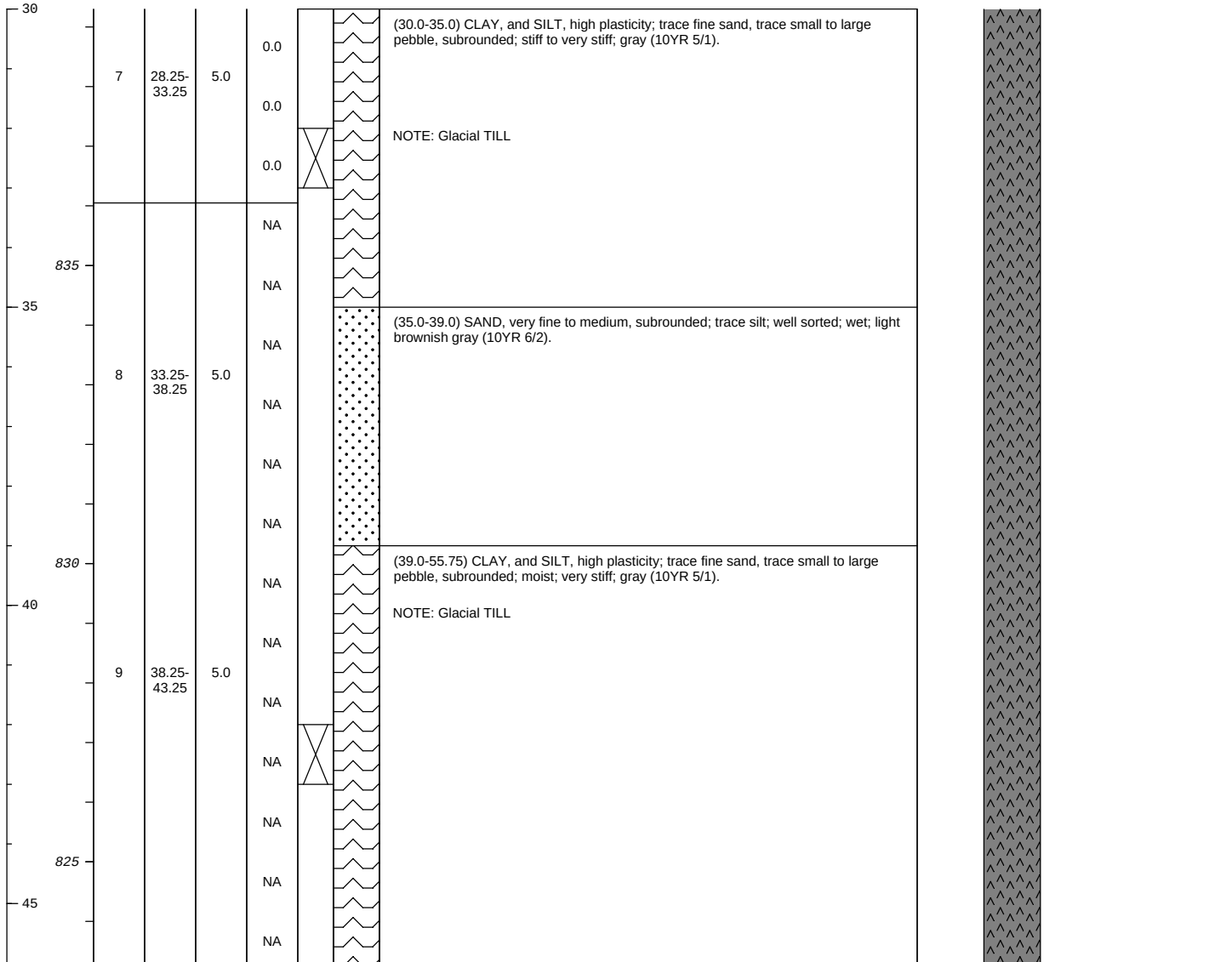
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	Remarks: BGS = Below ground surface Groundwater encountered at 28.0' and 35.0' bgs Staining and odor observed at 7.0' bgs Groundwater Sample collected from 37-38' bgs Shake test 7-9' bgs: negative
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Date Start/Finish: 6/5/2012 - 6/6/2012 Drilling Company: Geoserv Driller's Name: John and Chad Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 449821.11 Easting: 13065641.93 Casing Elevation: NA Borehole Depth: 55.75' bgs Surface Elevation: 869.30 Descriptions By: A. Westhuis	Well/Boring ID: VAP-A7-SU211 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater encountered at 28.0' and 35.0' bgs Staining and odor observed at 7.0' bgs Groundwater Sample collected from 37-38' bgs Shake test 7-9' bgs: negative
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[illegible]

	Remarks: BGS = Below ground surface Groundwater encountered at 28.0' and 35.0' bgs Staining and odor observed at 7.0' bgs Groundwater Sample collected from 37-38' bgs Shake test 7-9' bgs: negative
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Date Start/Finish: 6/4/2012 - 6/5/2012 Drilling Company: Geoserv Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450104.19 Easting: 13065626.03 Casing Elevation: NA Borehole Depth: 56.0' bgs. Surface Elevation: 872.89 Descriptions By: A. Westhuis	Well/Boring ID: VAP-A9-RR209 Client: RACER Trust Location: Lansing, MI
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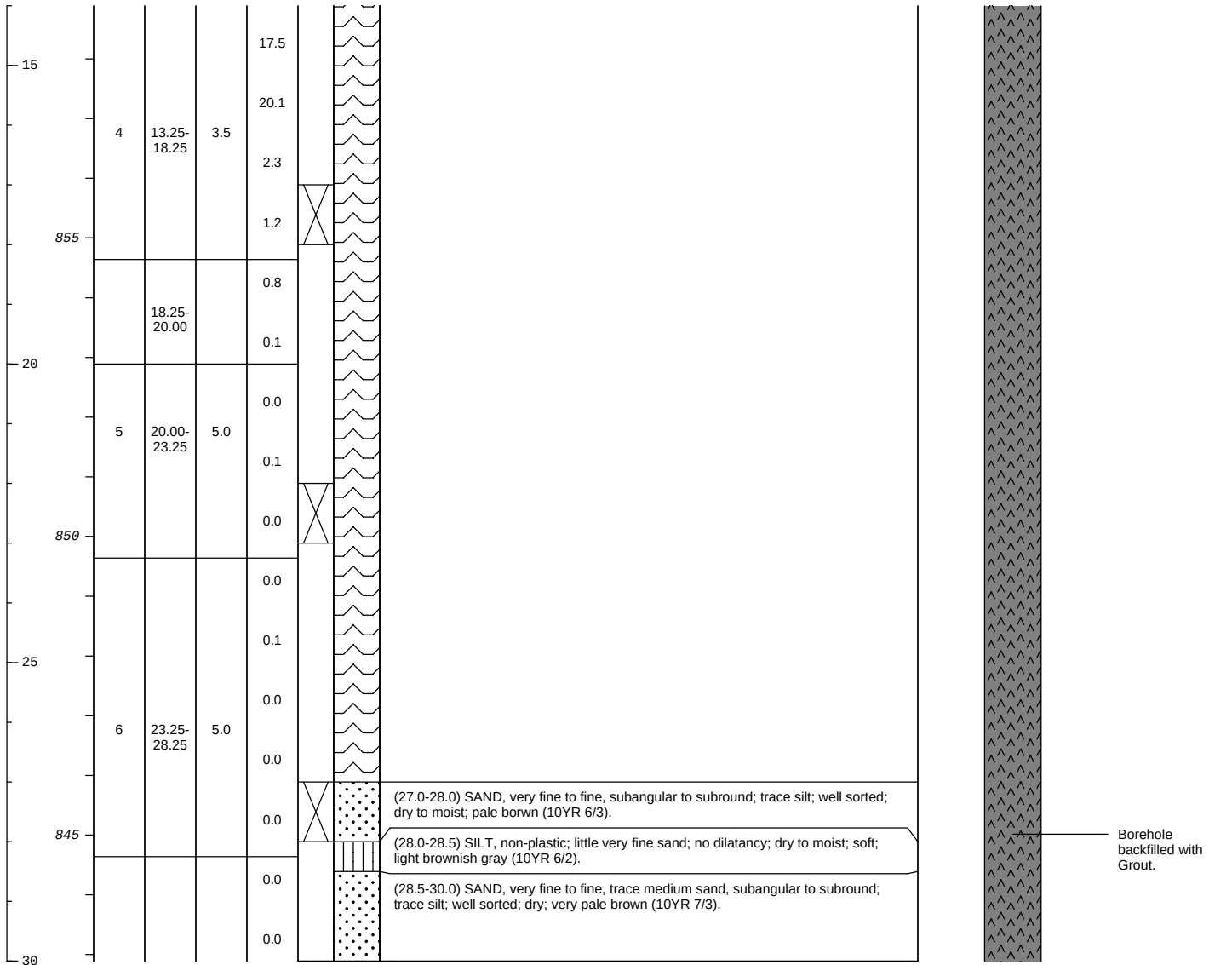
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0									
		1	0.0-3.25	0.5	4.3			(0.0-11.0) SAND, fine to medium, trace granules to small pebbles, subangular to subround; trace silt; poorly sorted; dry to moist; yellowish brown (10YR 5/6).	
					13.9			NOTE: FILL.	
870					21.2				
					71.8				
5		2	3.25-8.25	4.0	127			NOTE: odor; wet at 5.0' bgs.	
					115				
					390				
865					803				
					3090				
10					5038			NOTE: staining; very dark gray (10YR 3/1) to black (10YR 2/1) from 10.0'-11.0' bgs.	
		3	8.25-13.25	4.0	5089				
					231			(11.0-27.0) CLAY, and SILT, medium plasticity; trace fine sand, trace small to medium pebbles, round to subround; moist; medium stiff to stiff; gray (10YR 5/1).	
860					107			NOTE: Glacial TILL.	
					51.9				

	Remarks: BGS = Below ground surface Groundwater encountered at 28.0' and 35.0' bgs Staining and odor observed at 7.0' bgs Groundwater Sample collected from 37-38' bgs Shake test 7-9' bgs: negative
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Date Start/Finish: 6/4/2012 - 6/5/2012 Drilling Company: Geoserv Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450104.19 Easting: 13065626.03 Casing Elevation: NA Borehole Depth: 56.0' bgs. Surface Elevation: 872.89 Descriptions By: A. Westhuis	Well/Boring ID: VAP-A9-RR209 Client: RACER Trust Location: Lansing, MI
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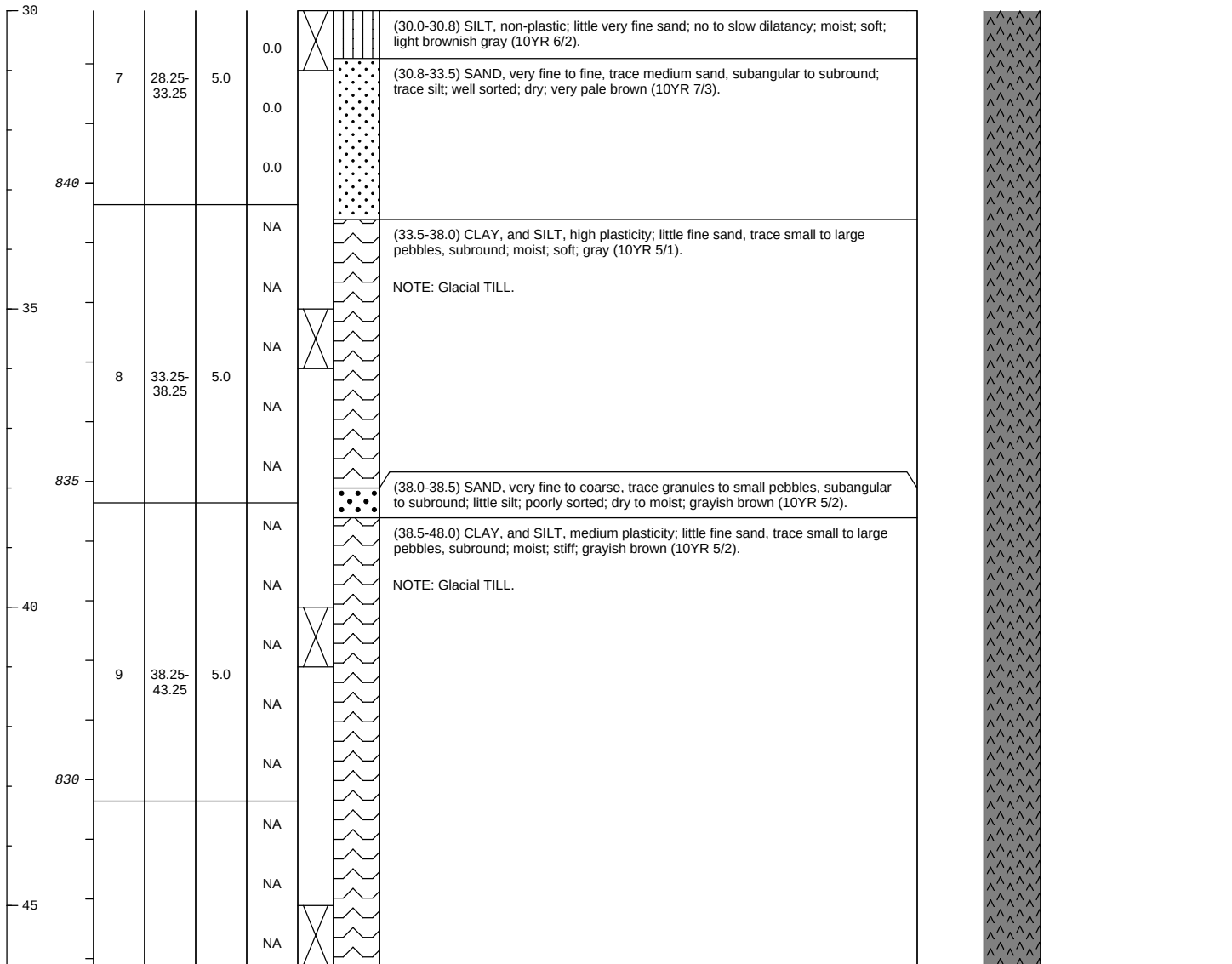
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	Remarks: BGS = Below ground surface Groundwater encountered at 28.0' and 35.0' bgs Staining and odor observed at 7.0' bgs Groundwater Sample collected from 37-38' bgs Shake test 7-9' bgs: negative
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Date Start/Finish: 6/4/2012 - 6/5/2012 Drilling Company: Geoserv Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450104.19 Easting: 13065626.03 Casing Elevation: NA Borehole Depth: 56.0' bgs. Surface Elevation: 872.89 Descriptions By: A. Westhuis	Well/Boring ID: VAP-A9-RR209 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: BGS = Below ground surface Groundwater encountered at 28.0' and 35.0' bgs Staining and odor observed at 7.0' bgs Groundwater Sample collected from 37-38' bgs Shake test 7-9' bgs: negative
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Date Start/Finish: 6/4/2012 - 6/5/2012 Drilling Company: Geoserv Driller's Name: Emrick Drilling Method: Geoprobe Sampling Method: Dual-tube Rig Type: Geoprobe	Northing: 450104.19 Easting: 13065626.03 Casing Elevation: NA Borehole Depth: 56.0' bgs. Surface Elevation: 872.89 Descriptions By: A. Westhuis	Well/Boring ID: VAP-A9-RR209 Client: RACER Trust Location: Lansing, MI
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
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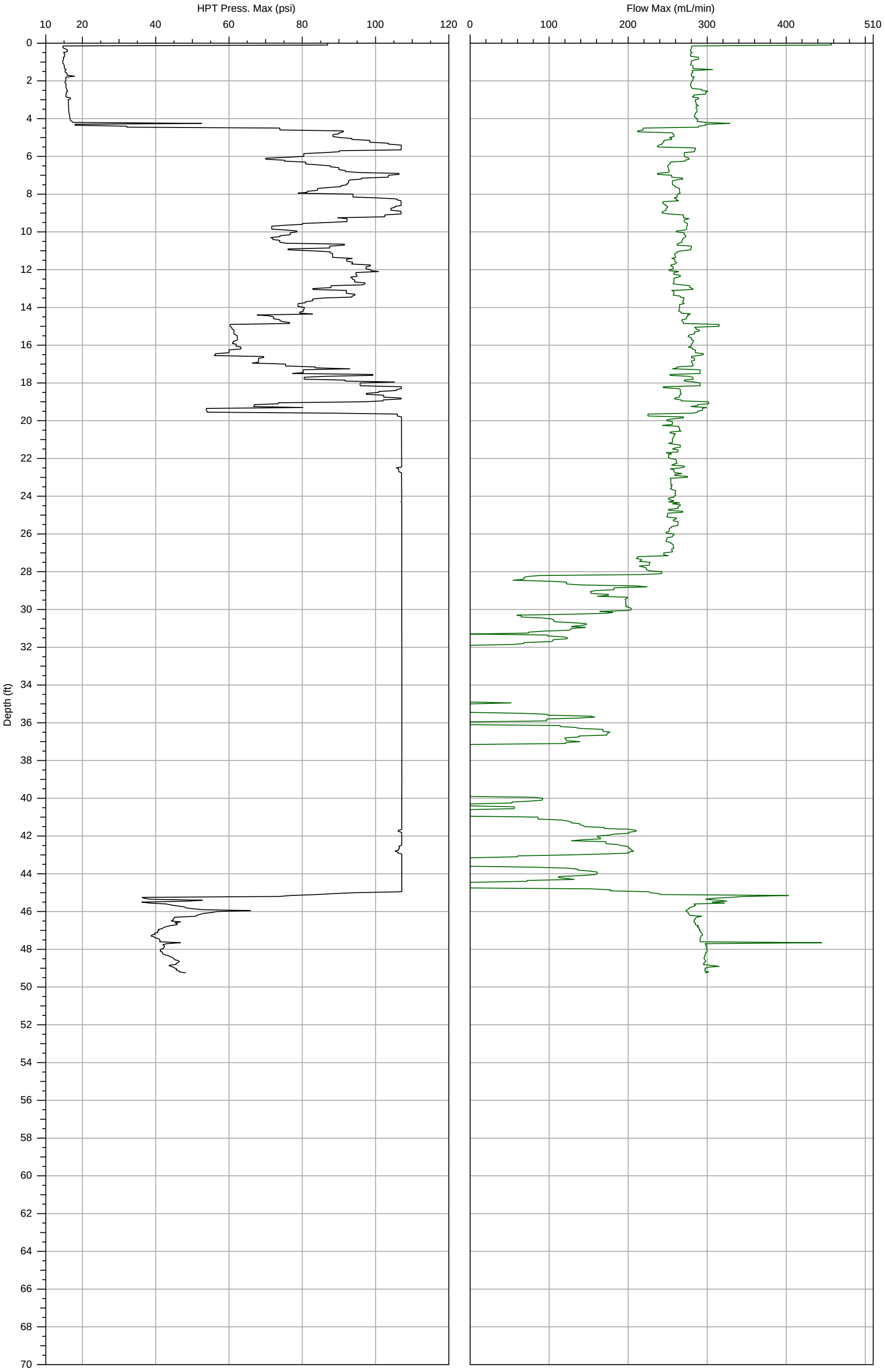
825	10	43.25 48.25	5.0	NA					
				NA					
				NA					
50	11	48.25- 50.75	2.5	NA				(48.0-51.5) SAND, very fine to very coarse, some granules, trace small pebbles, subround; trace silt; poorly sorted; wet; grayish brown (10YR 5/2). NOTE: sand fines with depth.	
				NA					
				NA					
820	12	50.75- 53.75	2.5	NA				(51.5-55.6) CLAY, little silt, high plasticity; trace small to large pebbles, subround; moist; stiff to very stiff; gray (10YR 5/1). NOTE: Glacial TILL.	
				NA					
				NA					
55	13	53.75- 56.0	2.5	NA				(55.6-56.0) SANDSTONE, weathered.	
				NA					
815								End of boring at 56.0' bgs.	
60									

	Remarks: BGS = Below ground surface Groundwater encountered at 28.0' and 35.0' bgs Staining and odor observed at 7.0' bgs Groundwater Sample collected from 37-38' bgs Shake test 7-9' bgs: negative
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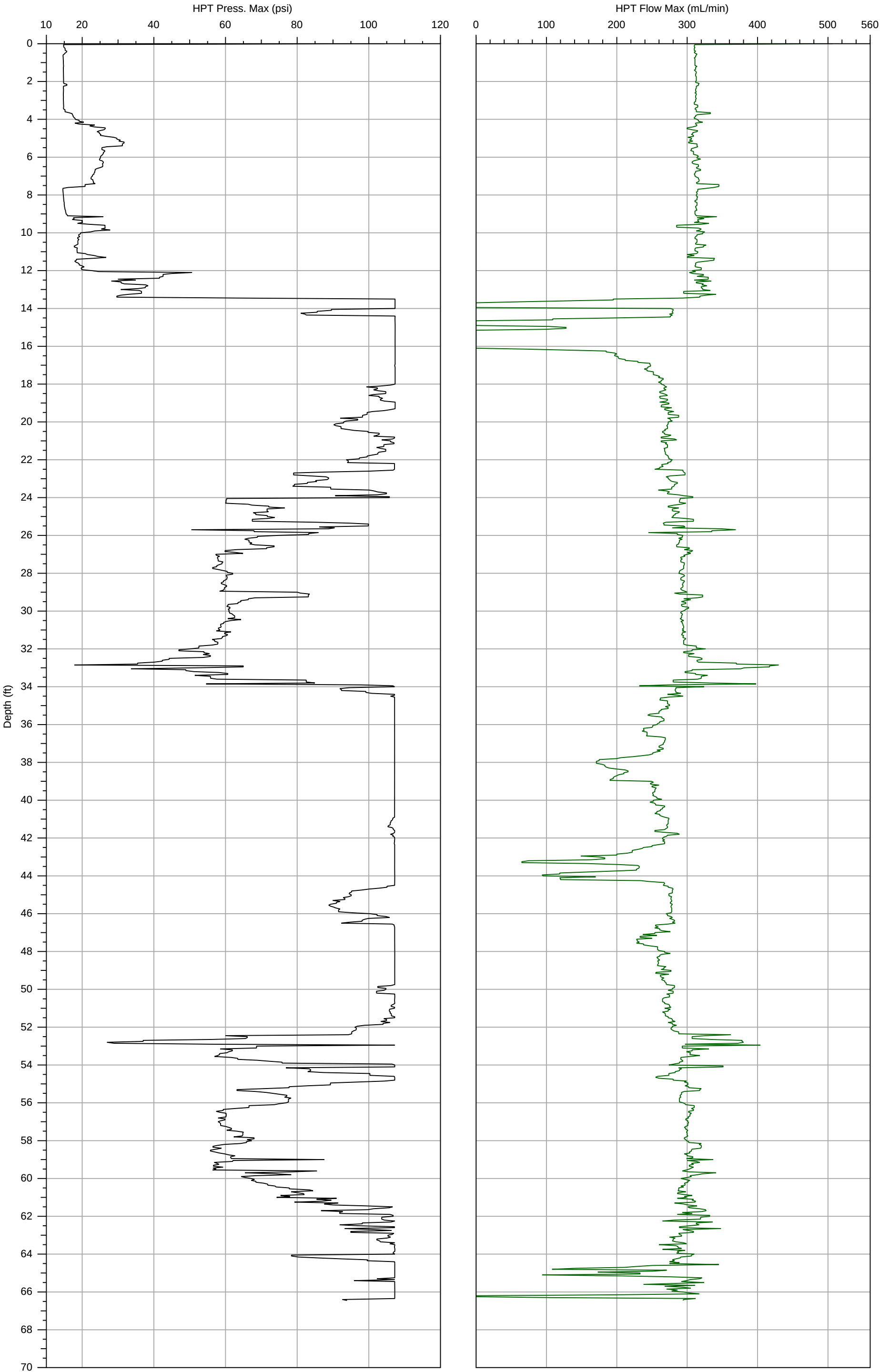


Appendix D 2

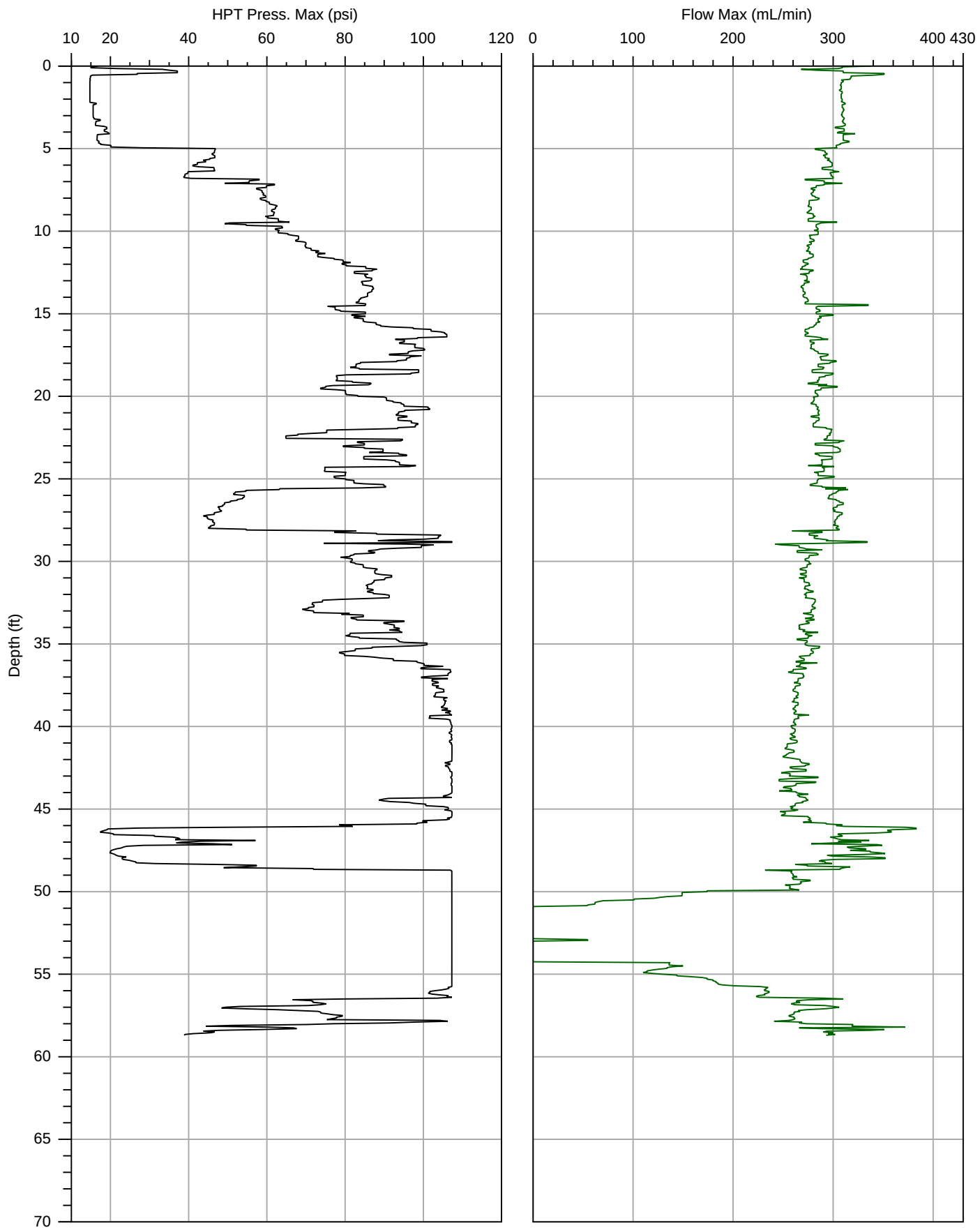
Investigation - HPT Logs
(Disc)



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Project ID:	Client:	Date: 5/8/2012
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Company:

Operator:

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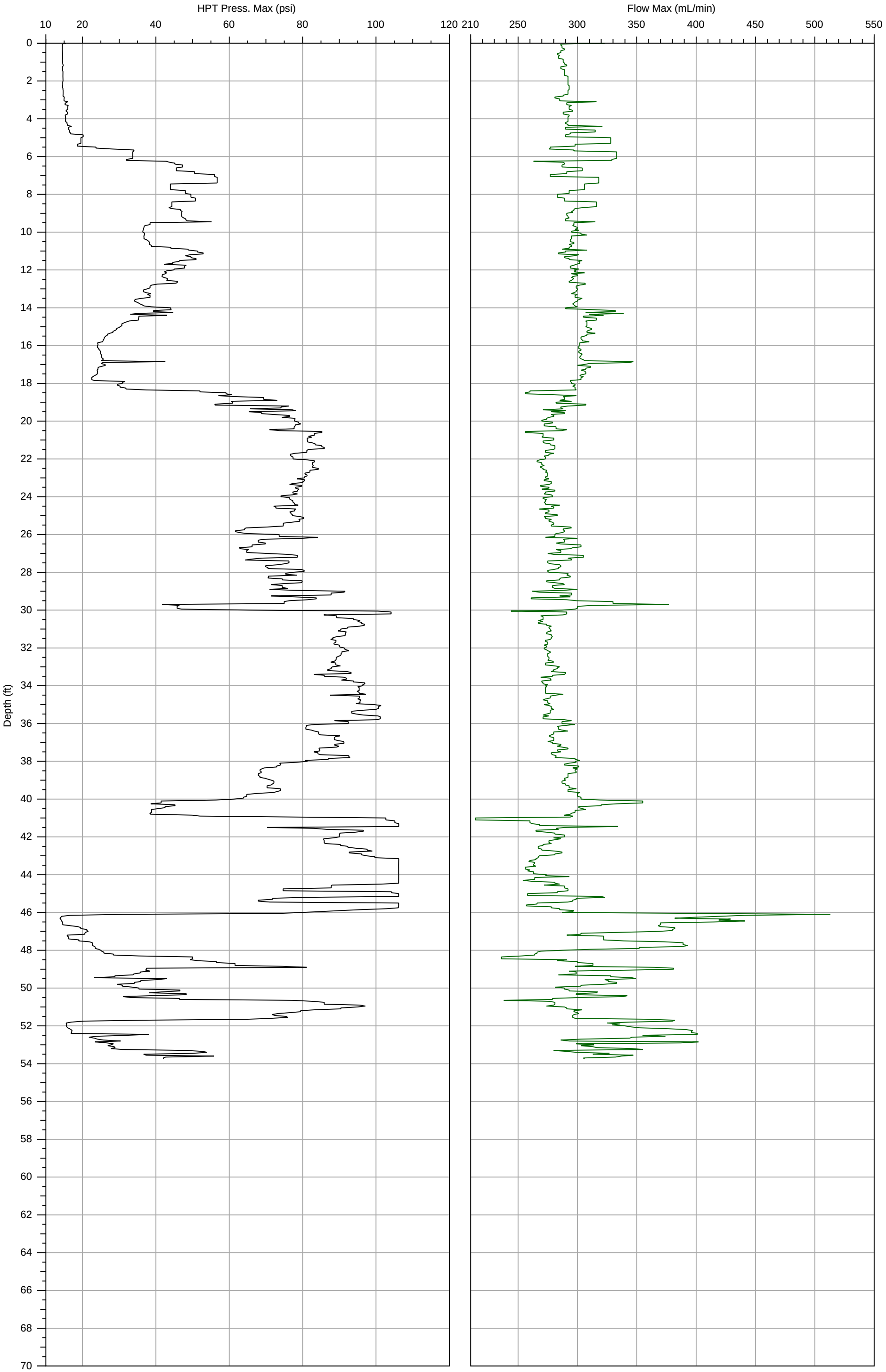
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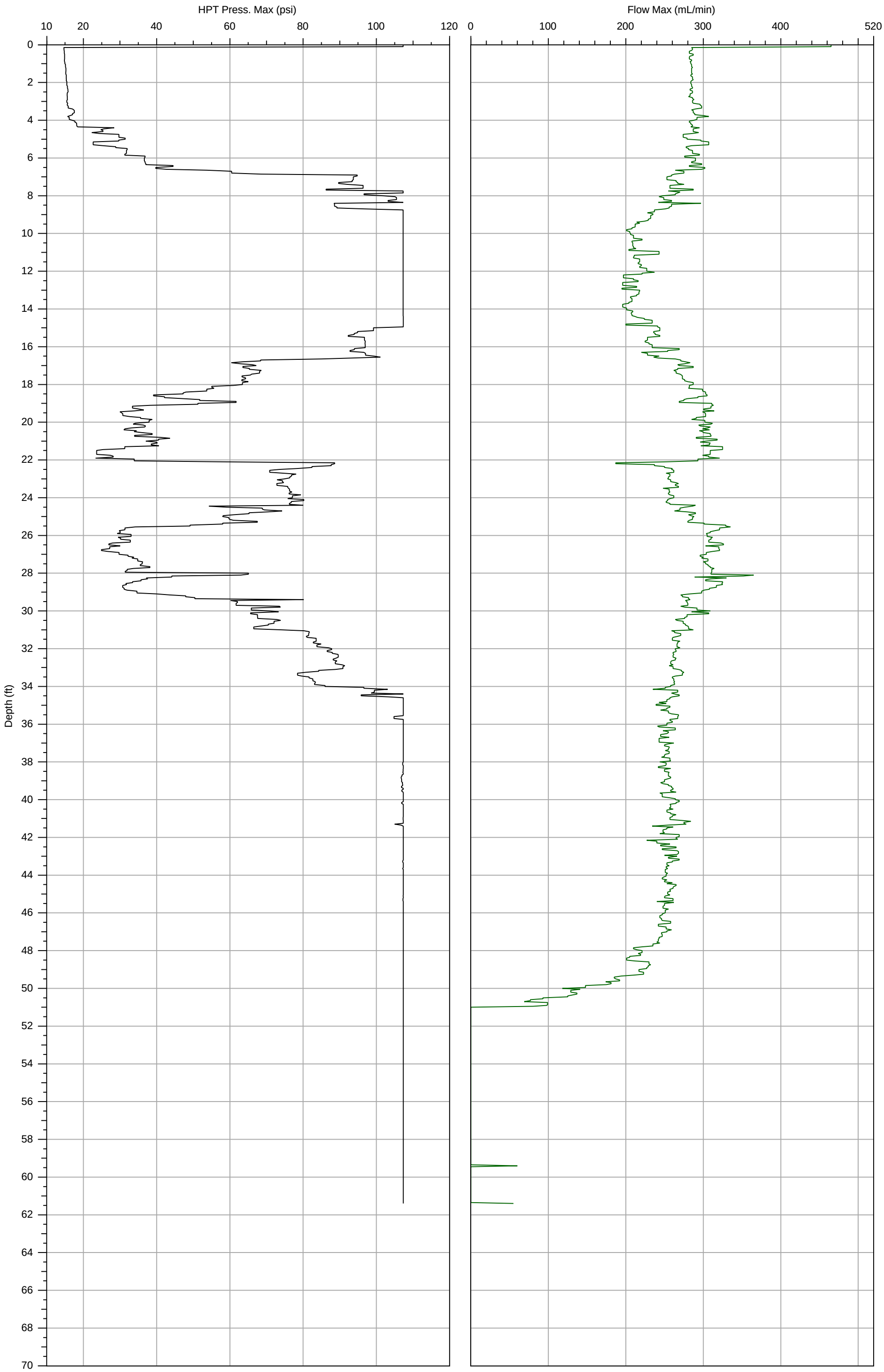
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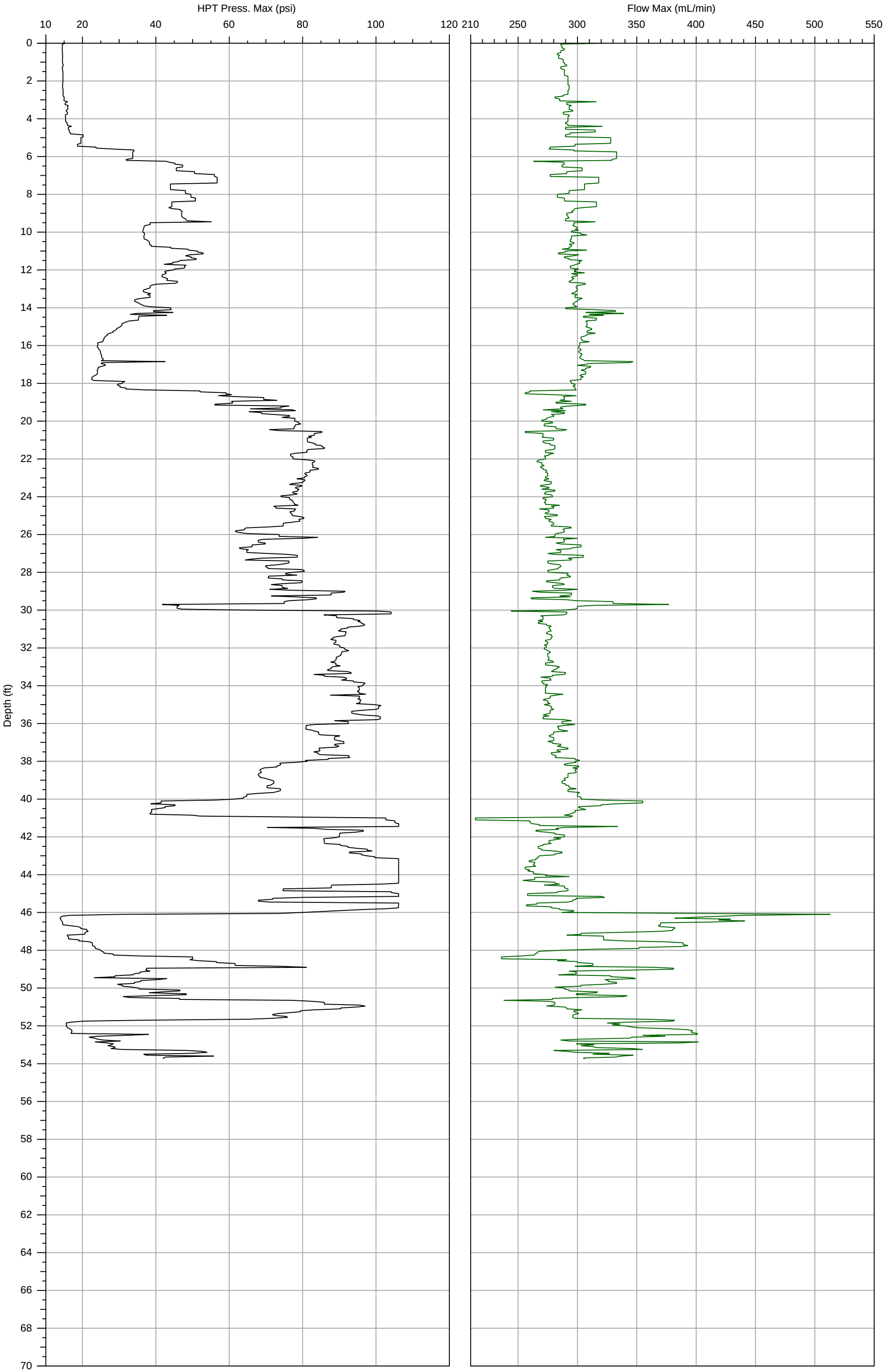
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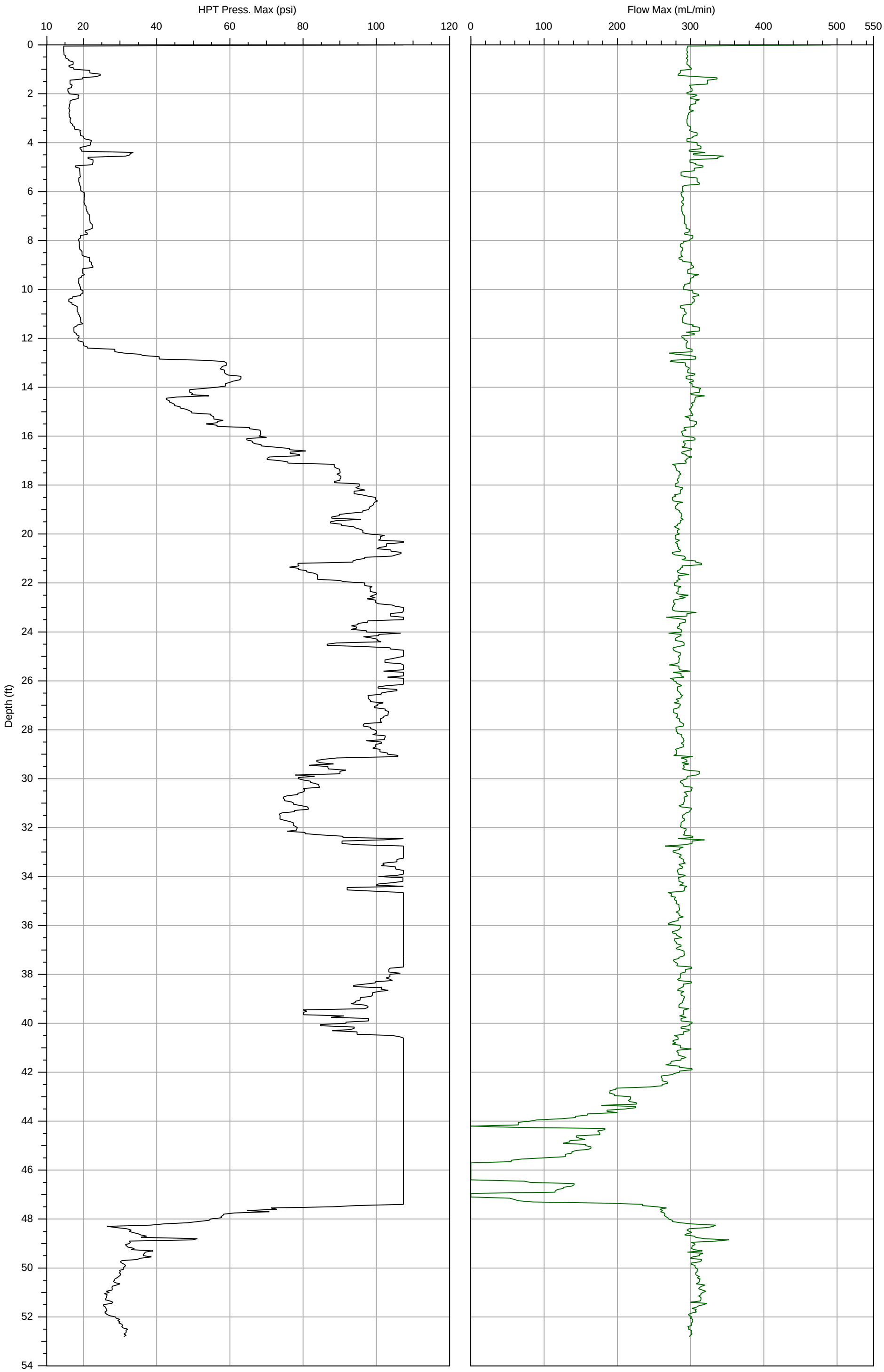
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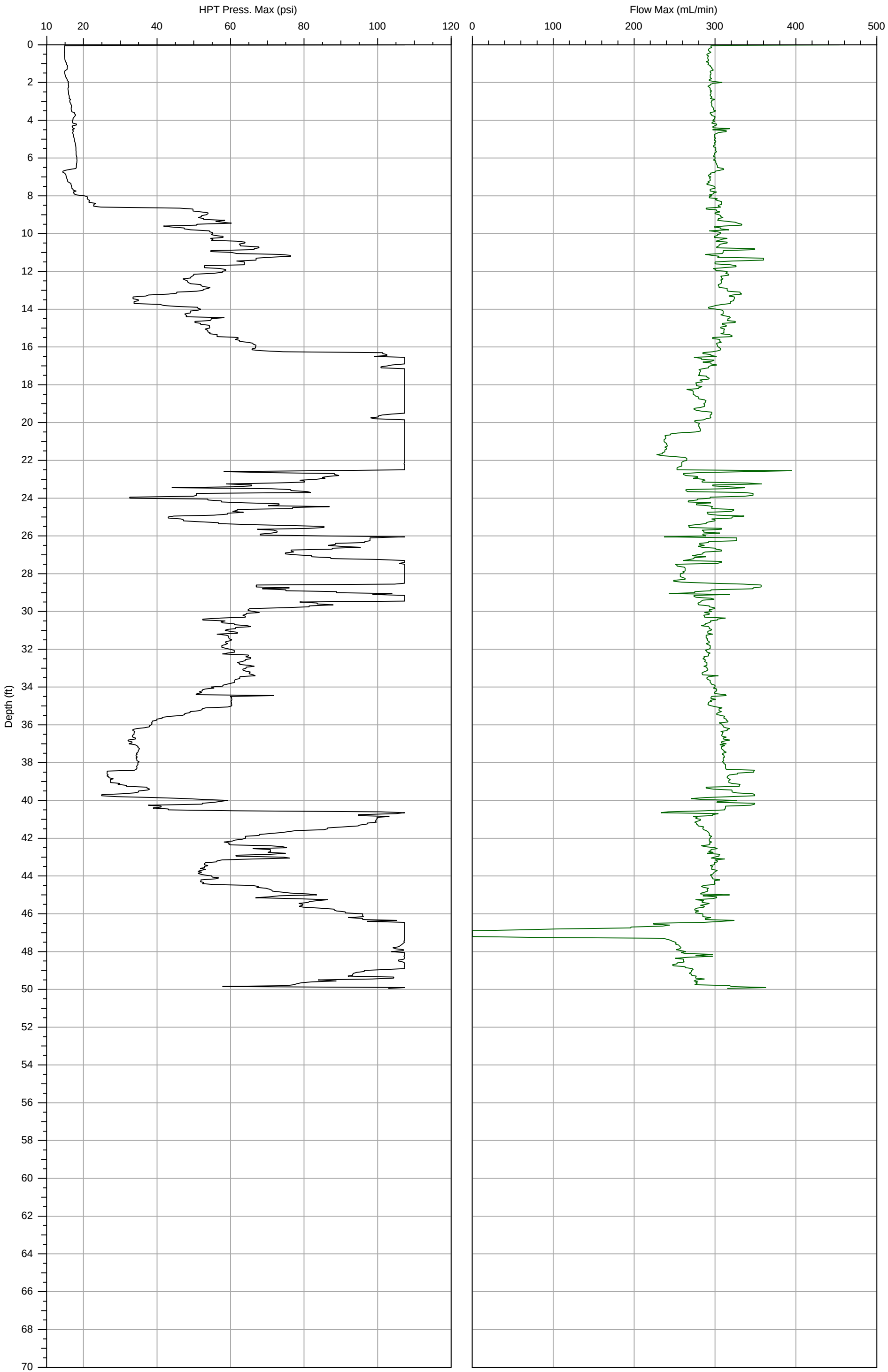
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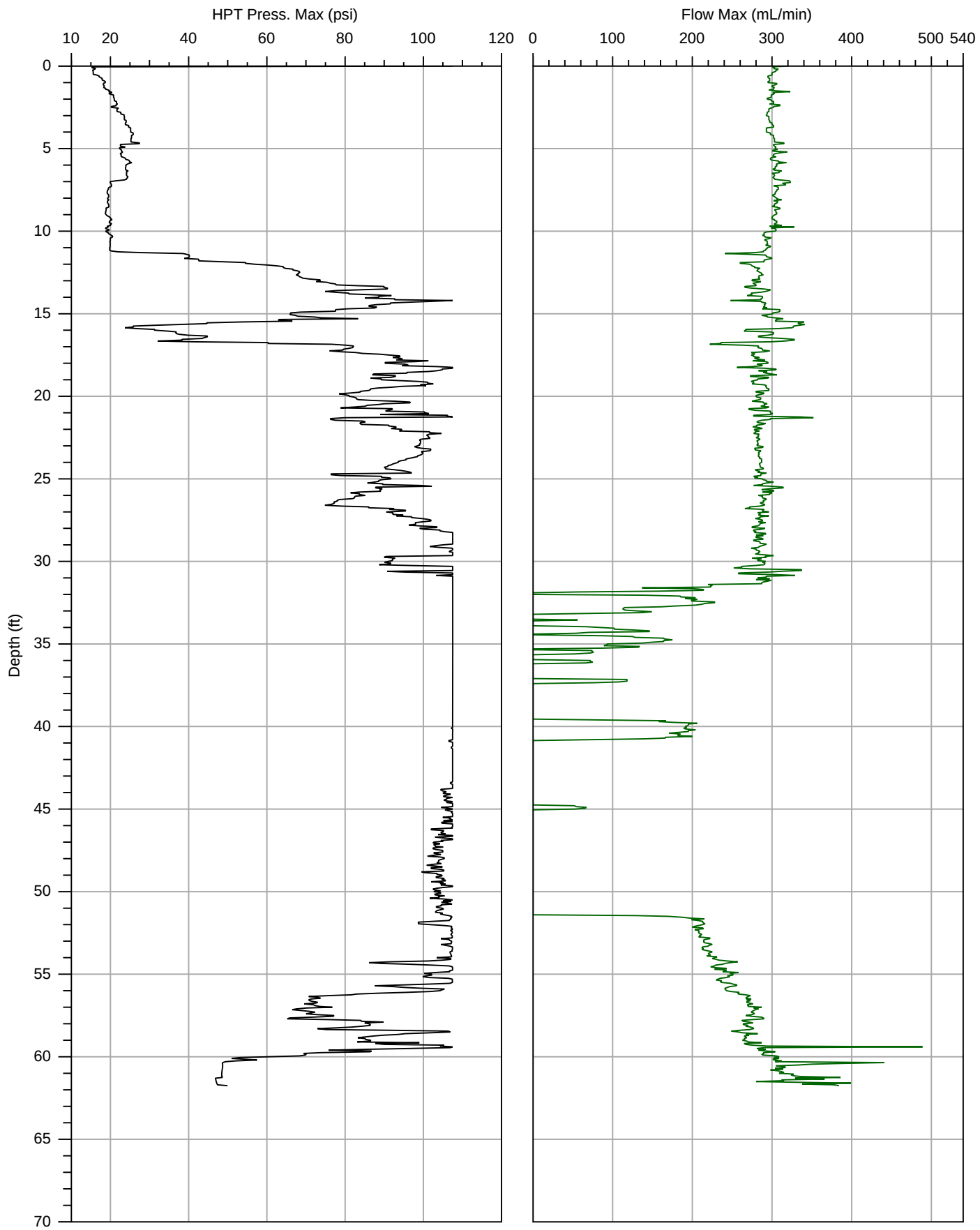
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Company:

Operator:

File:

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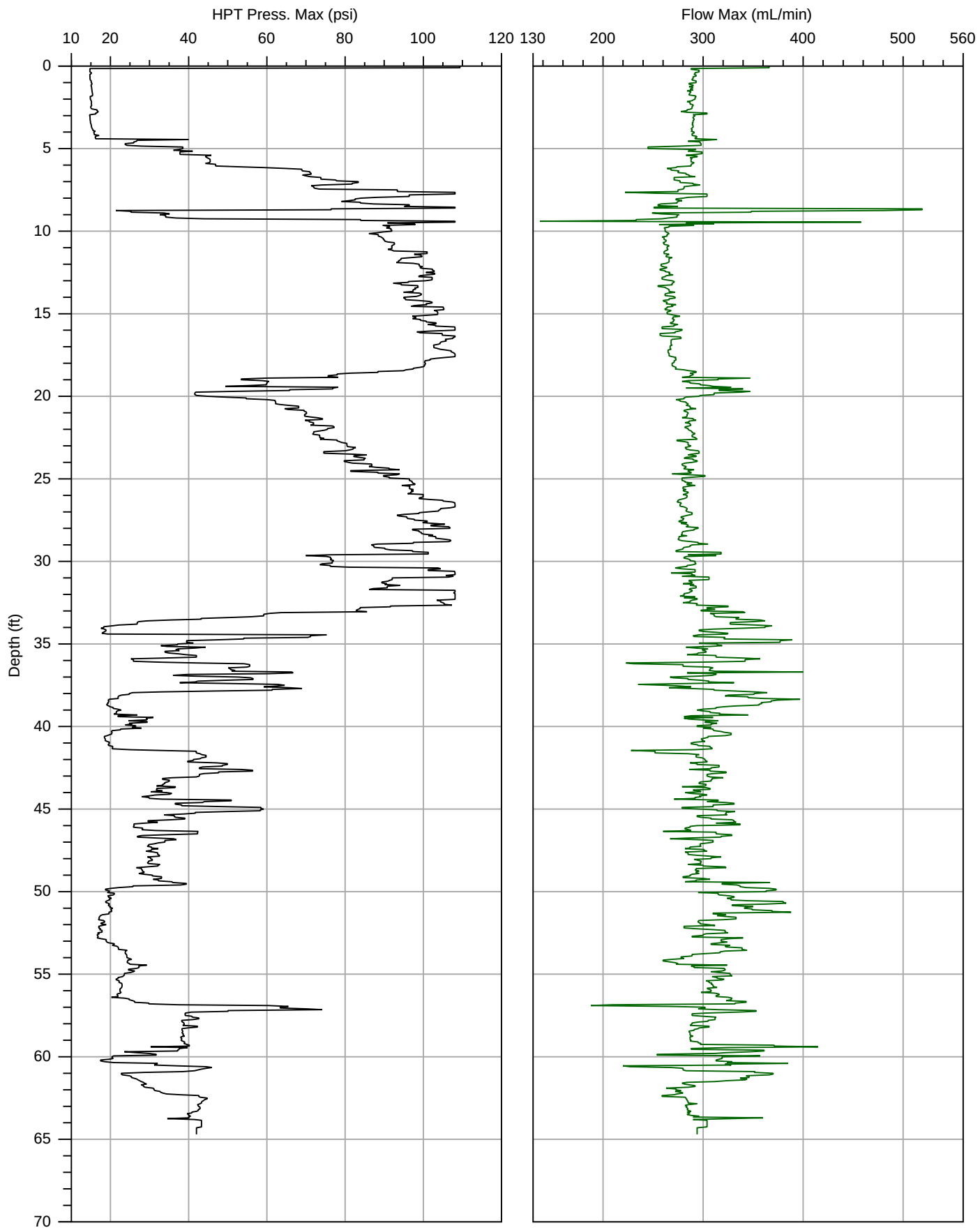
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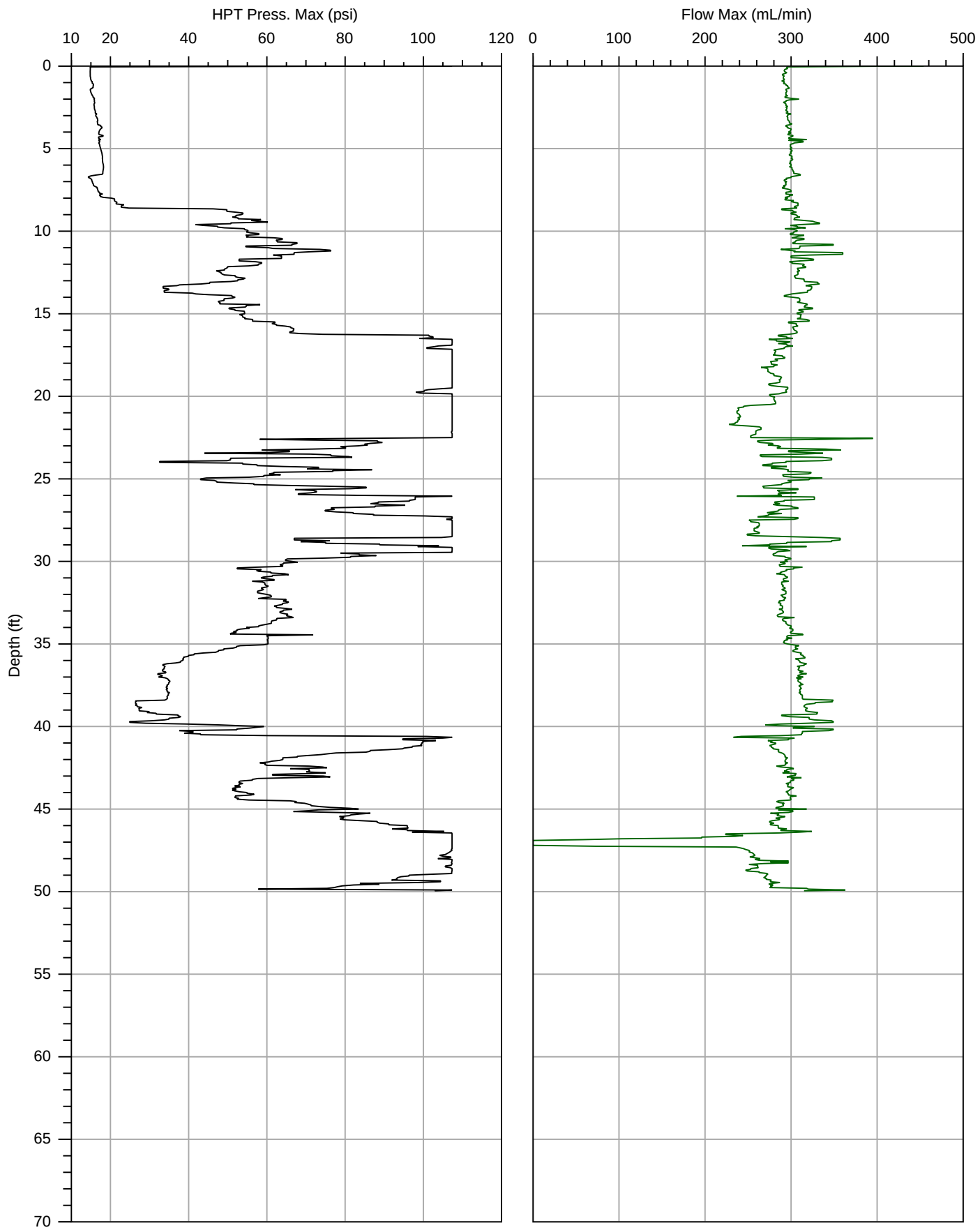
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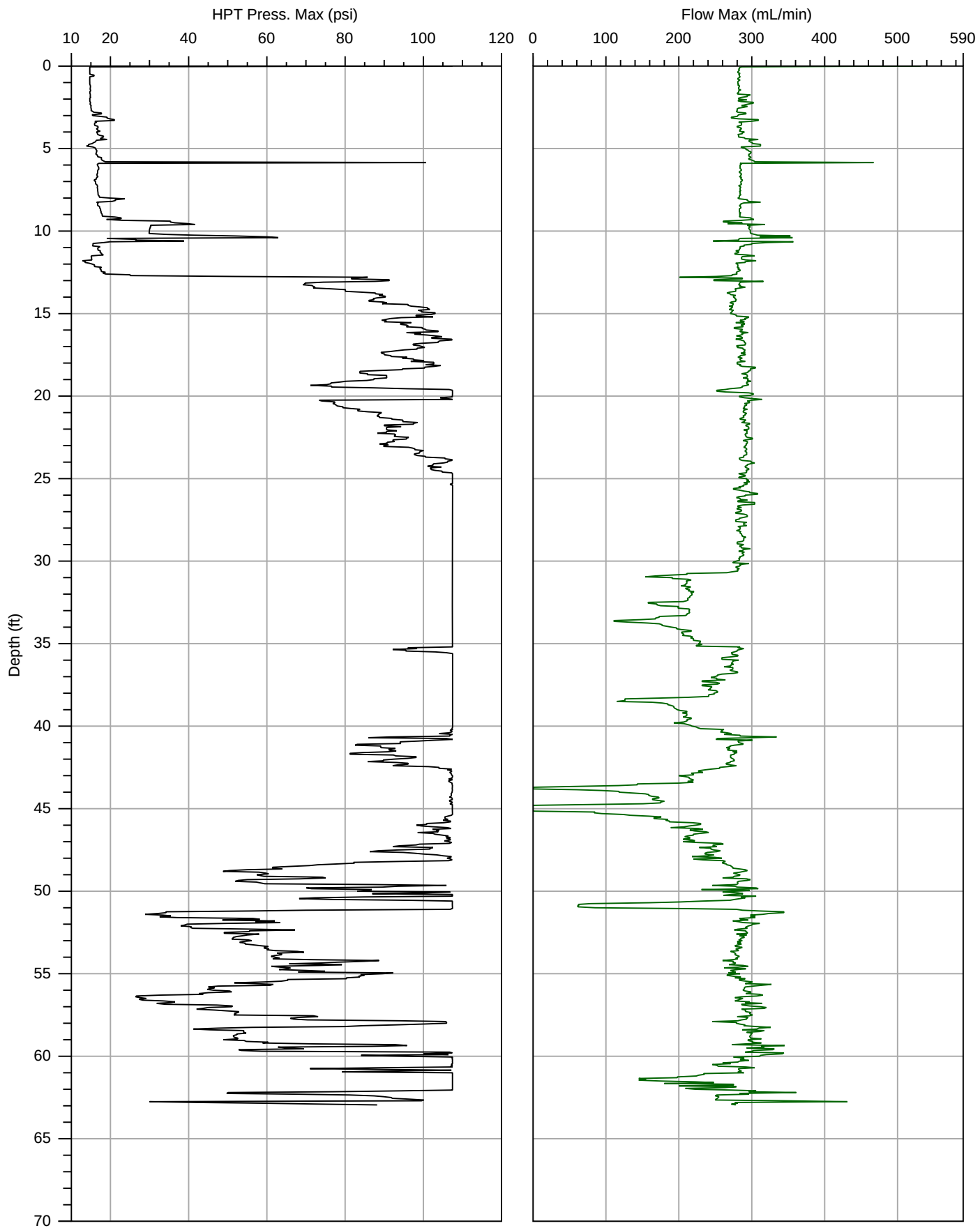
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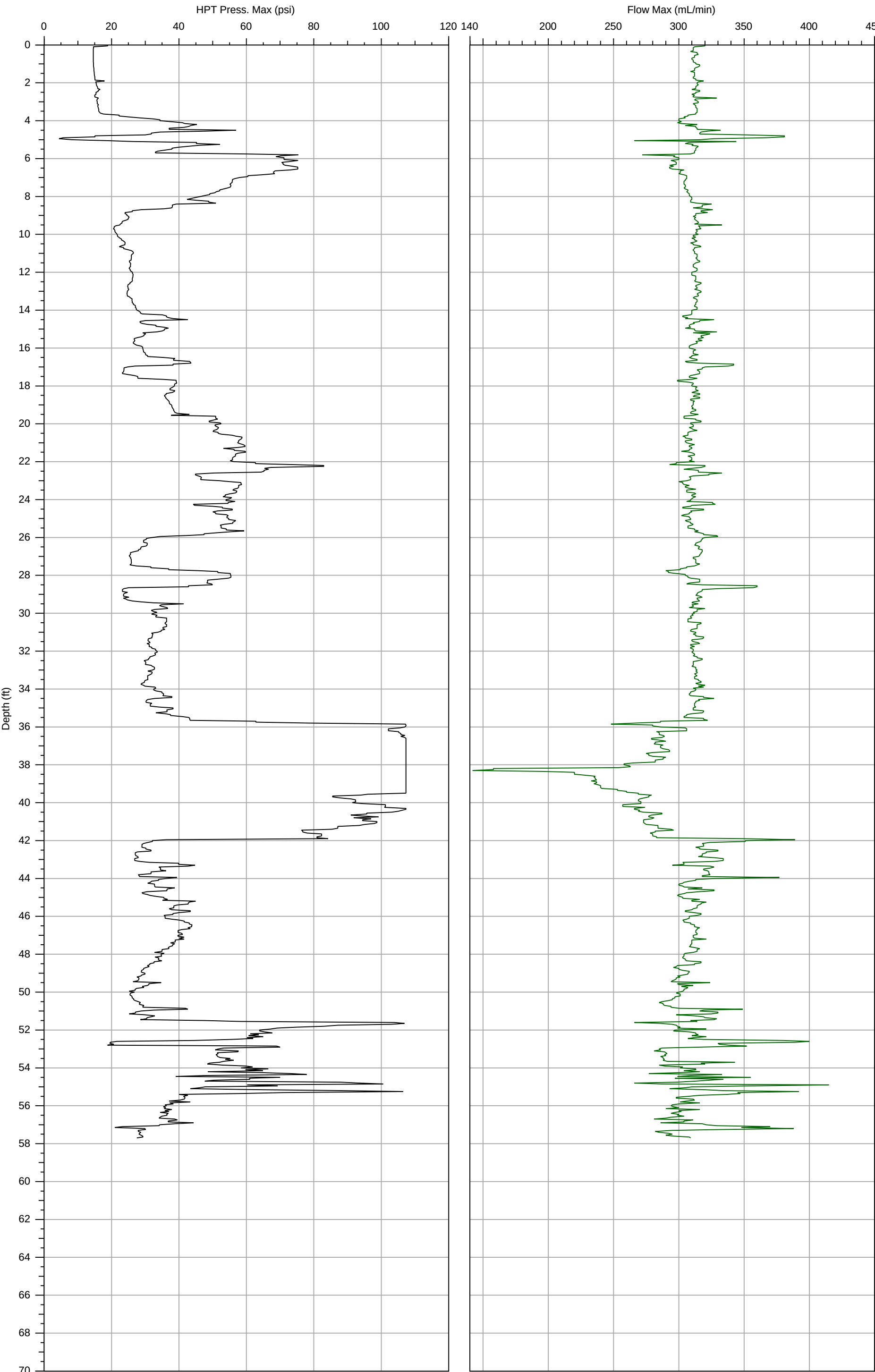
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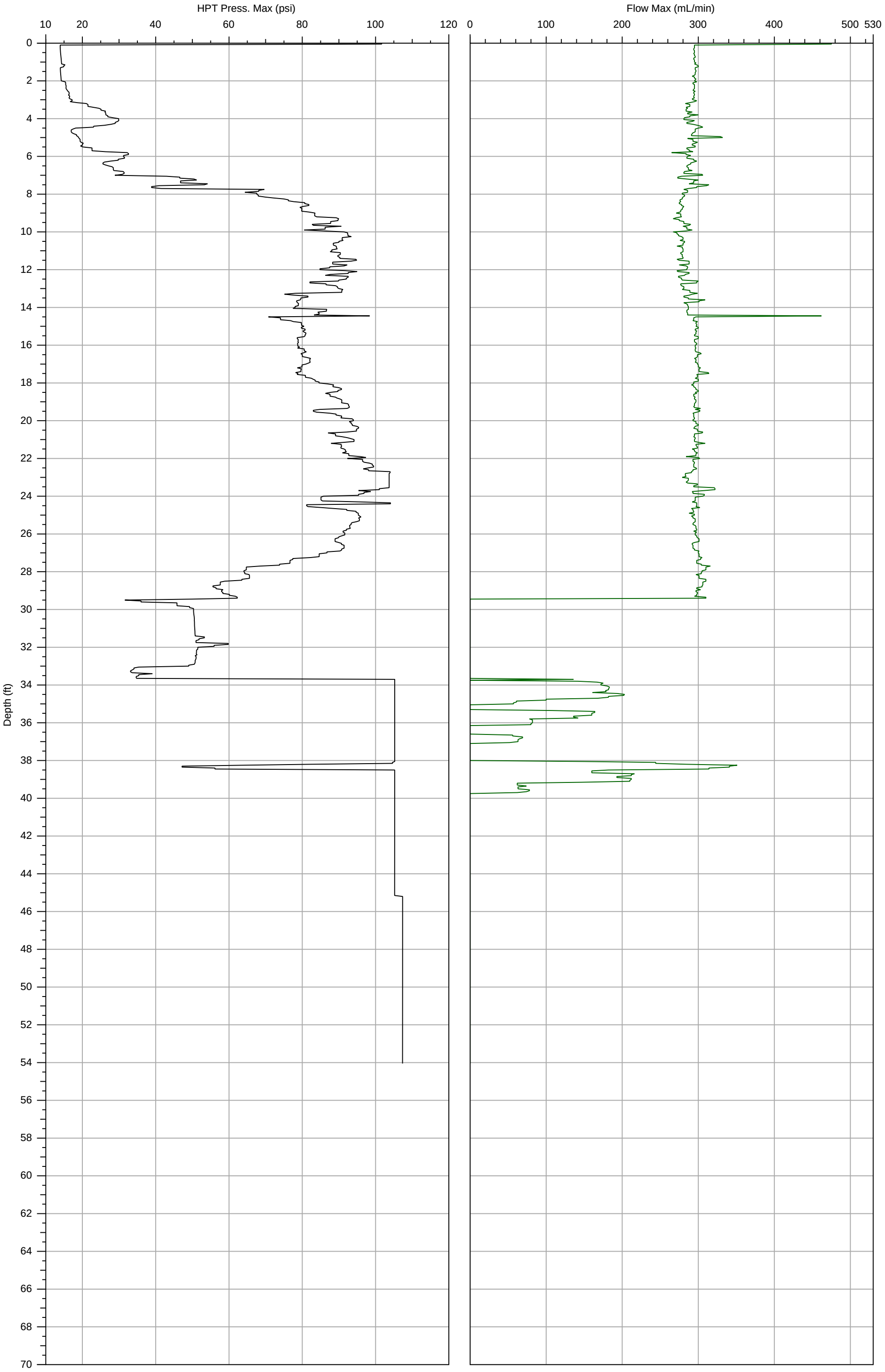
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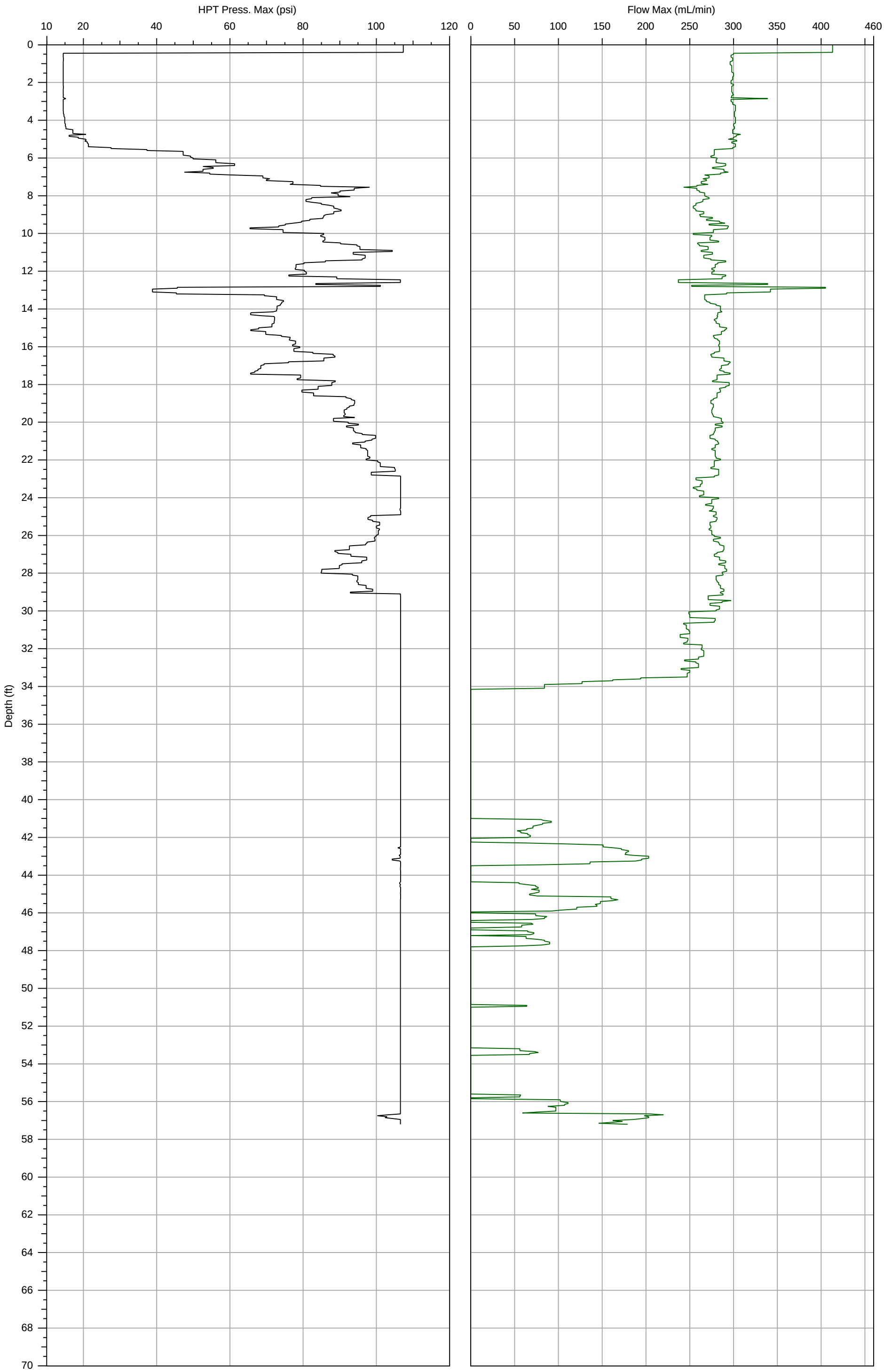
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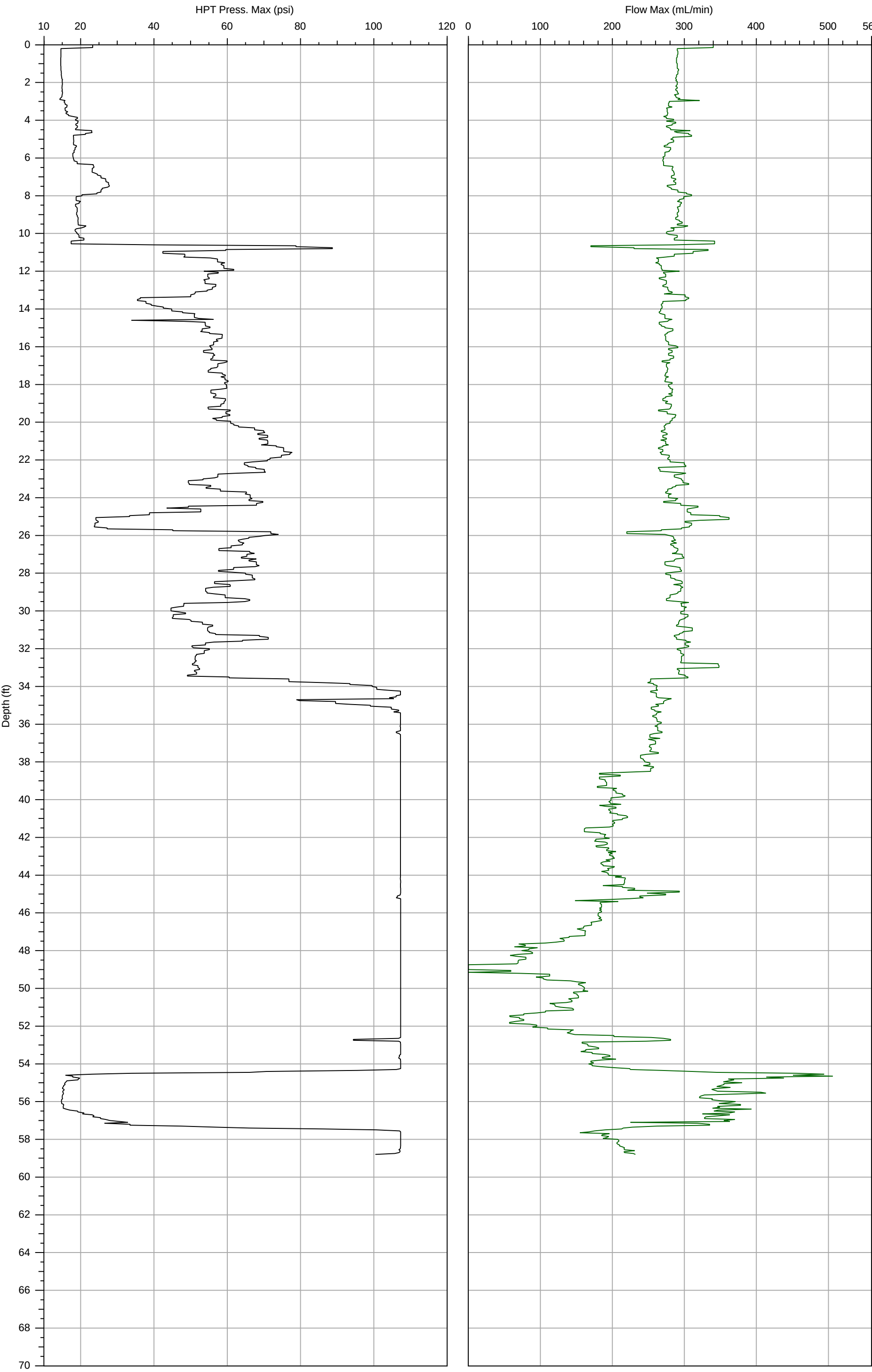
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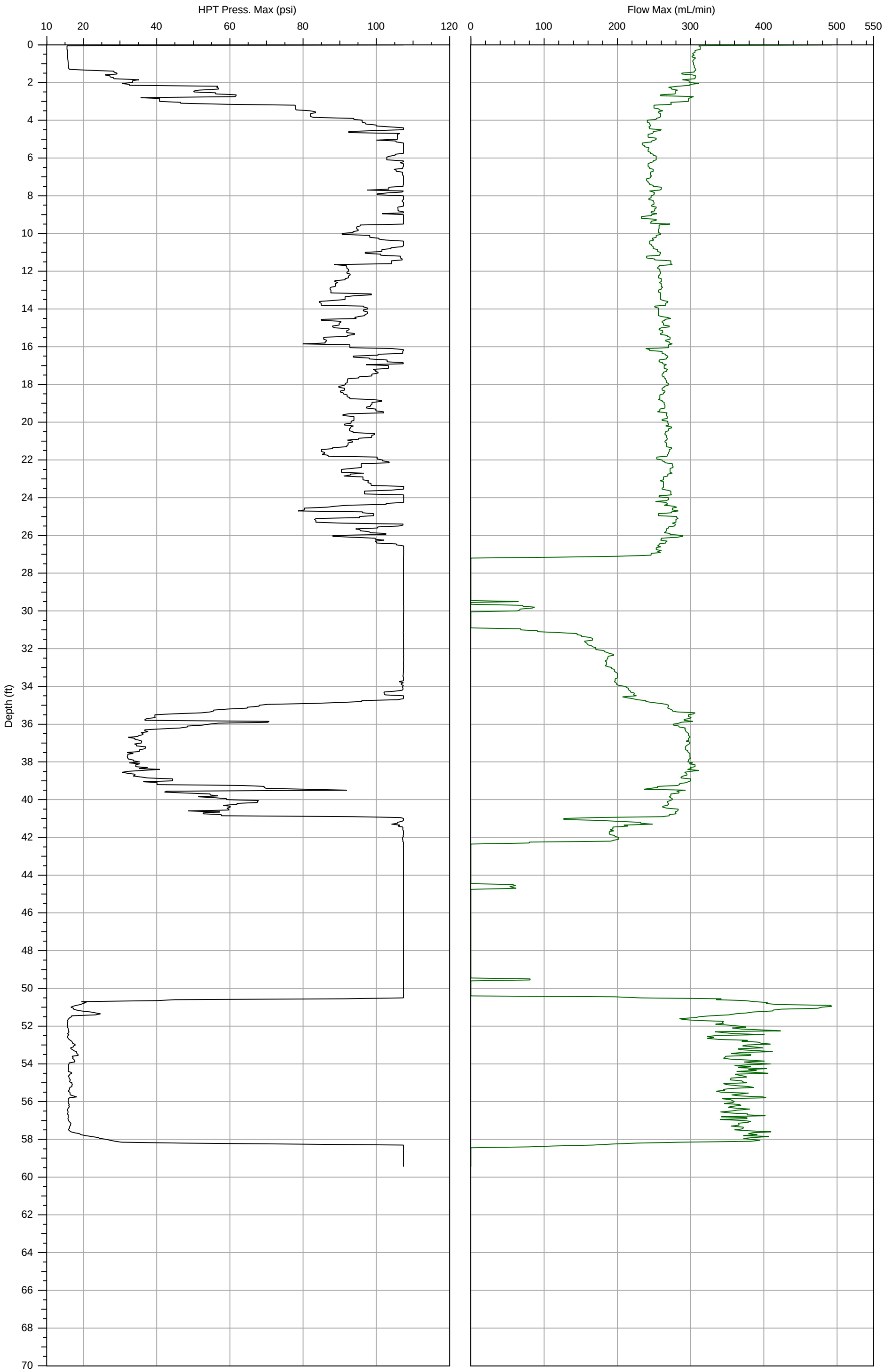
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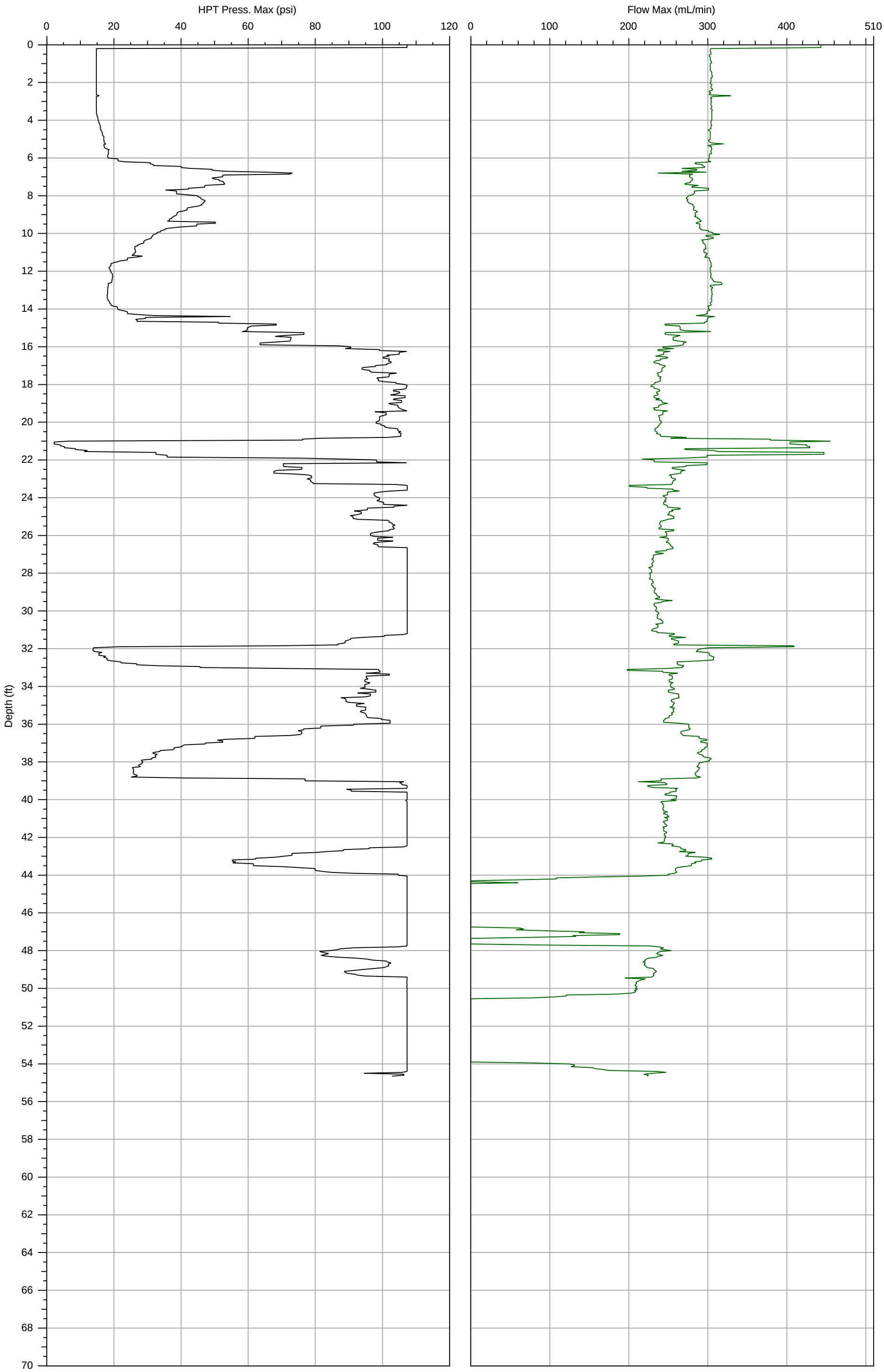
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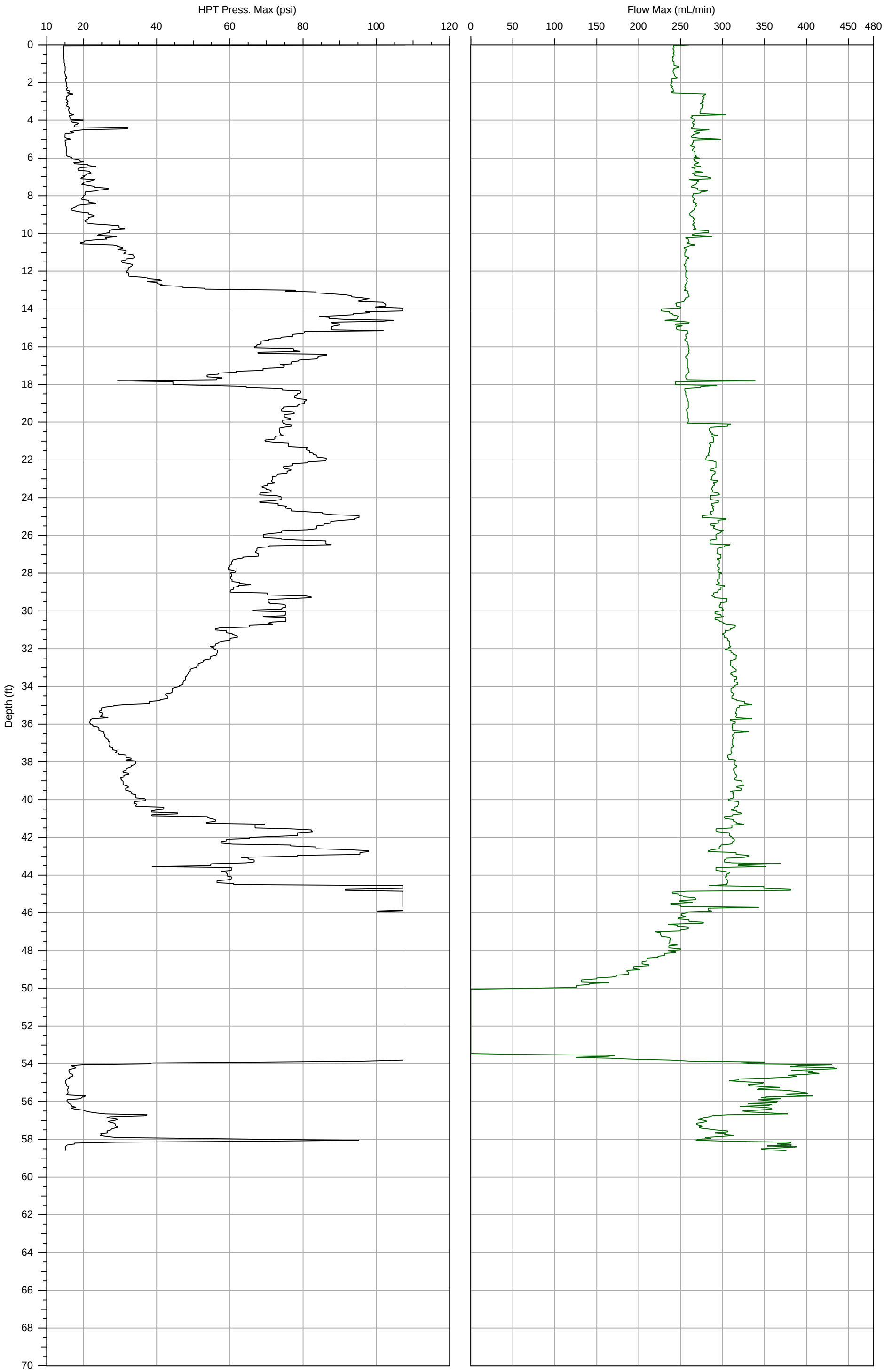
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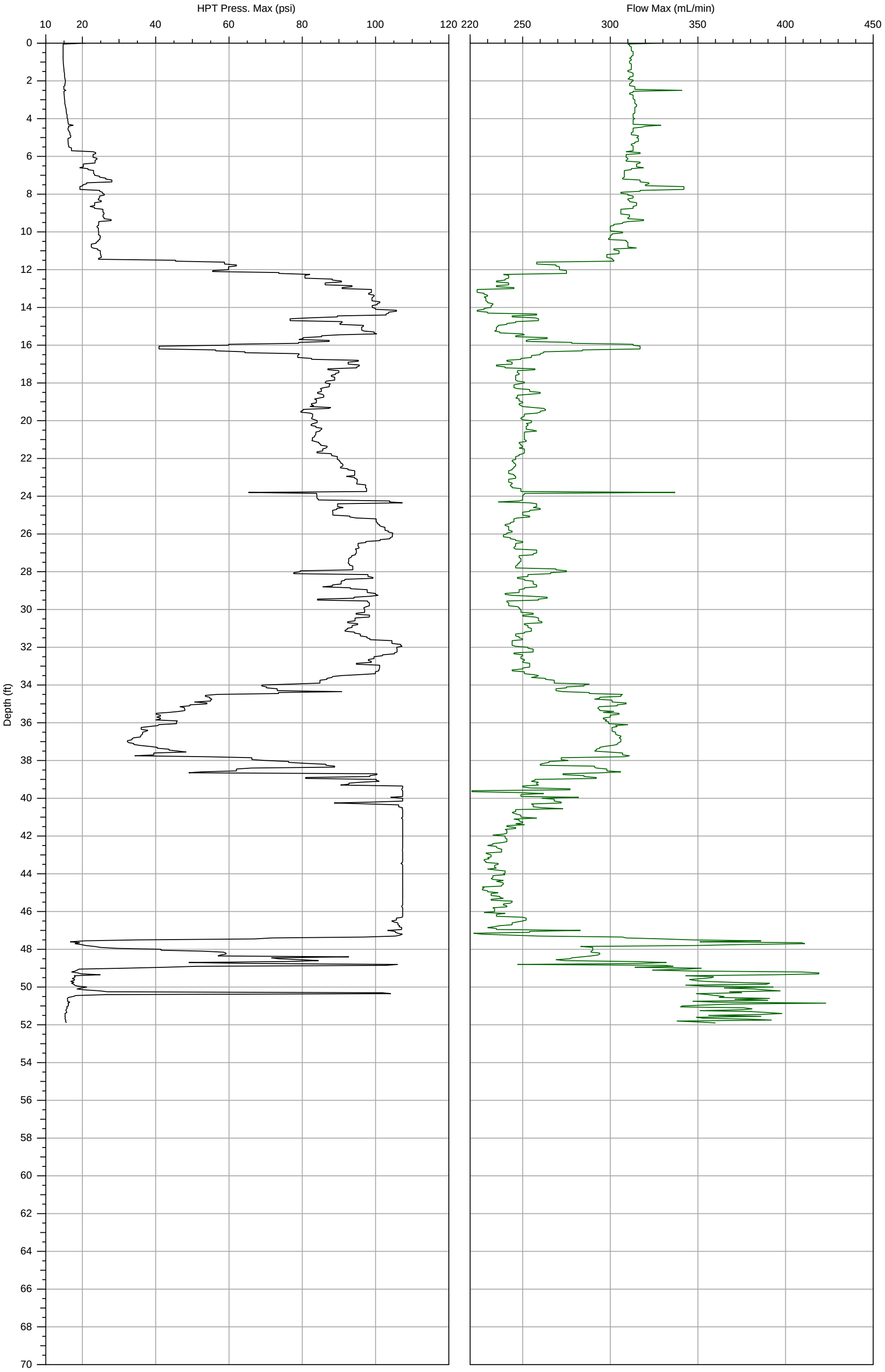
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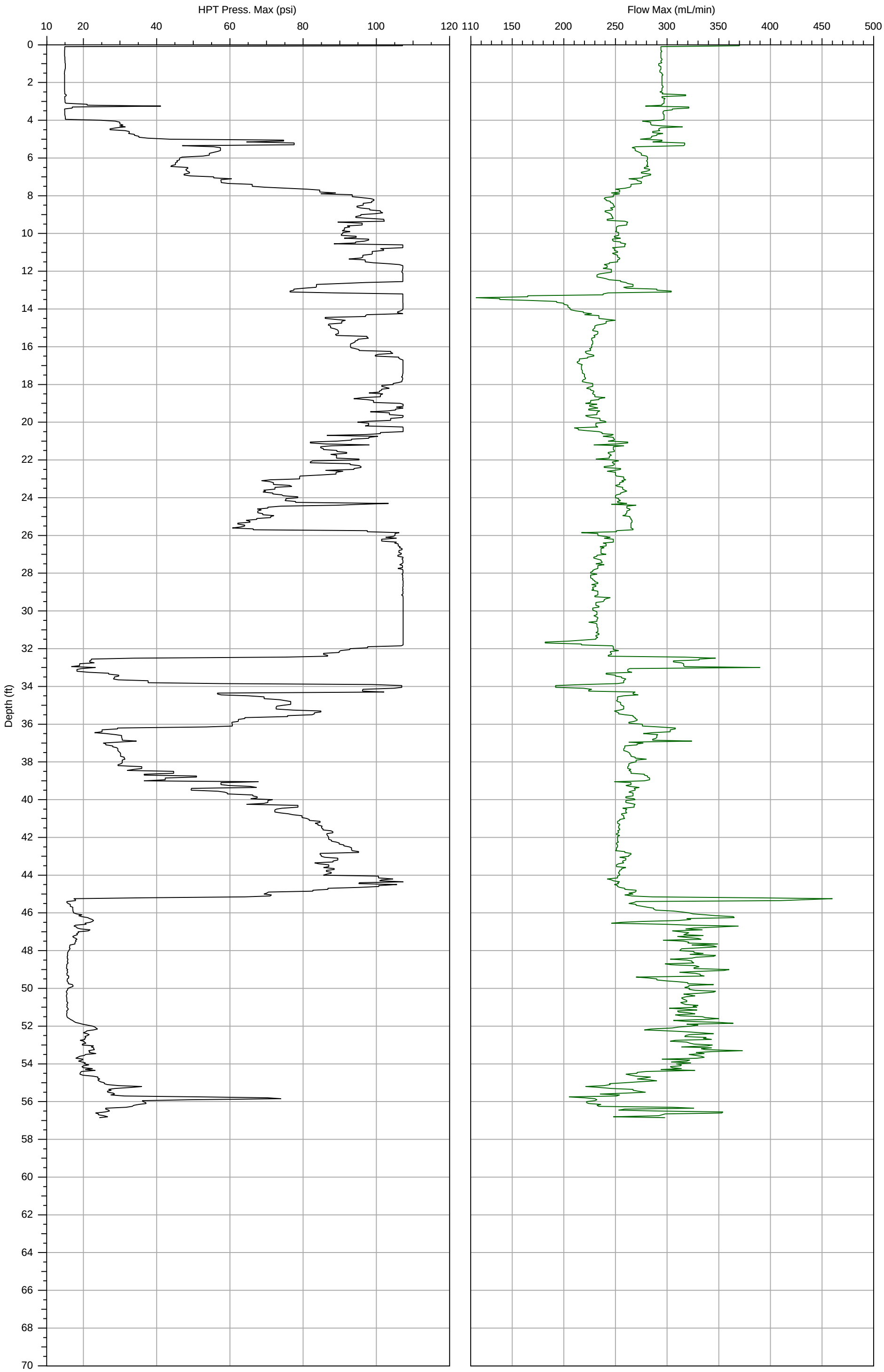
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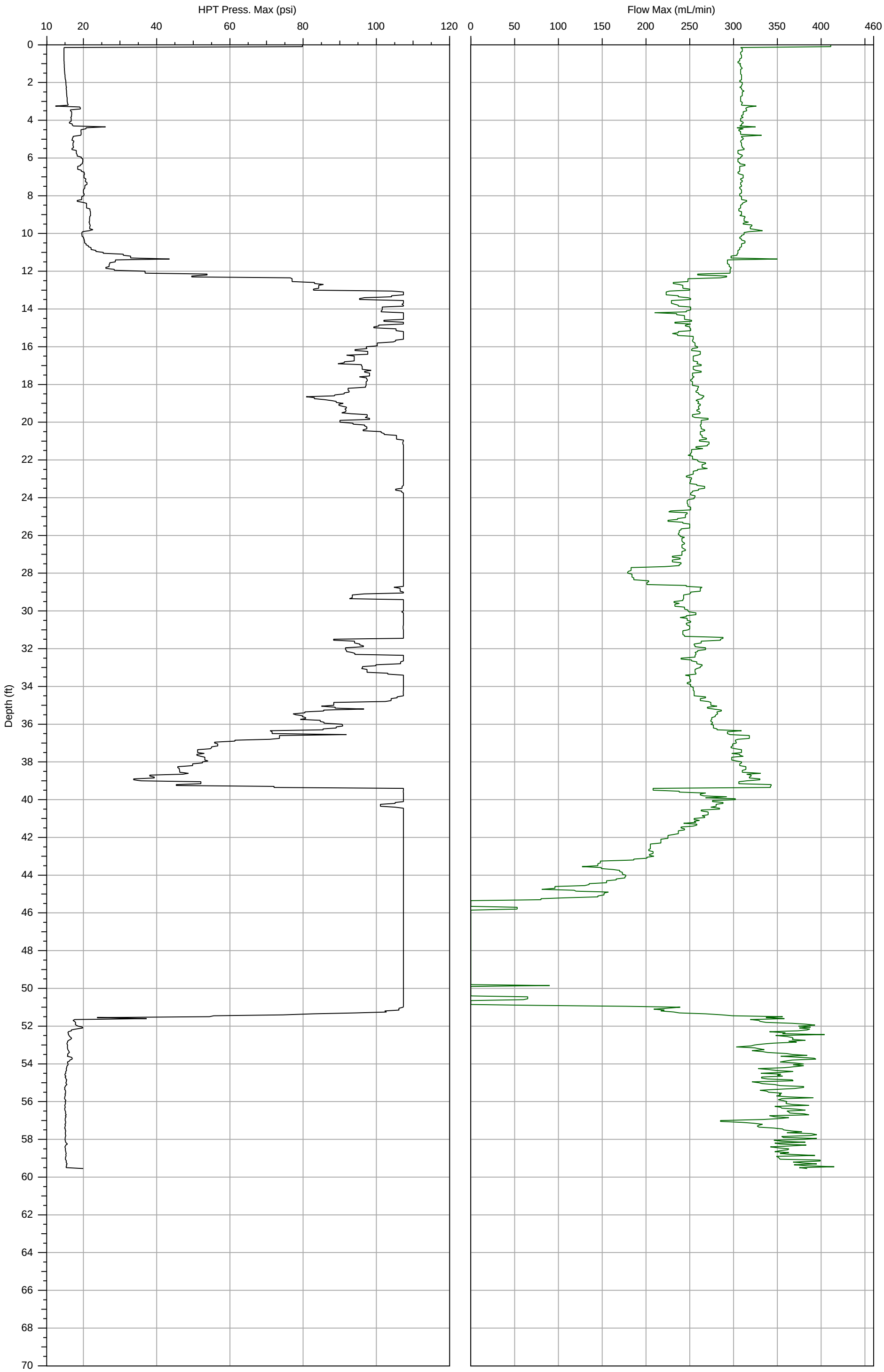
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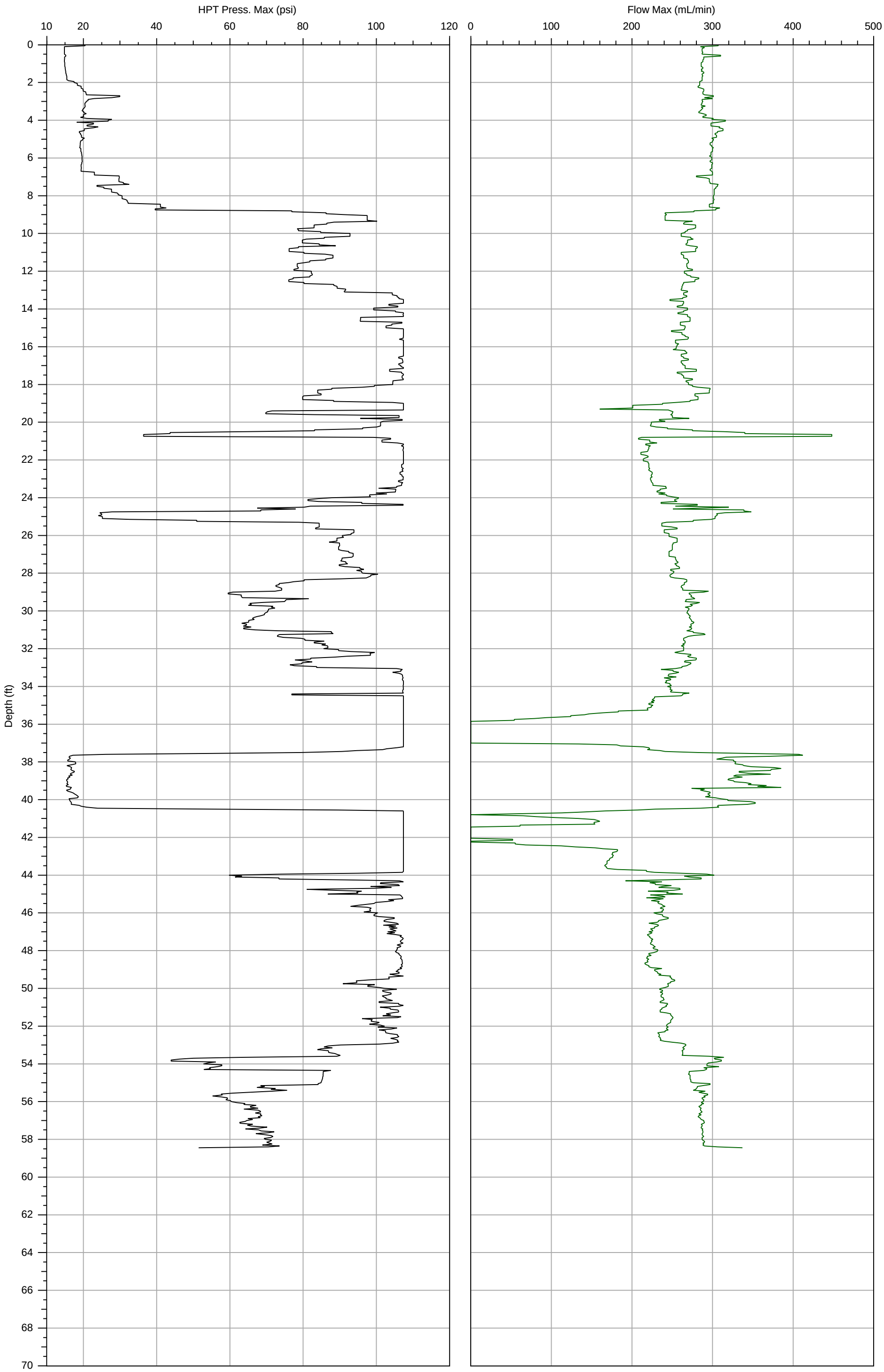
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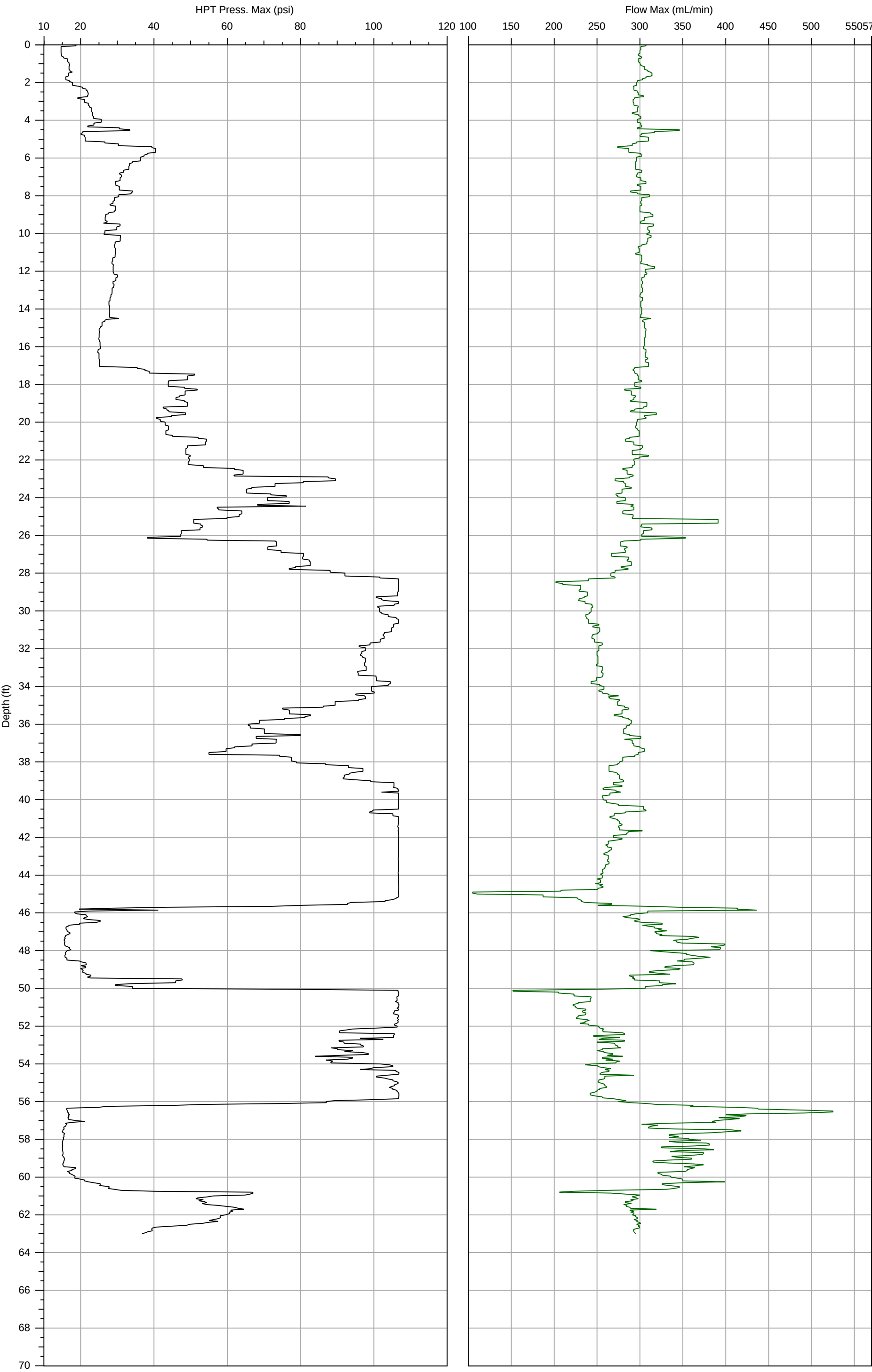
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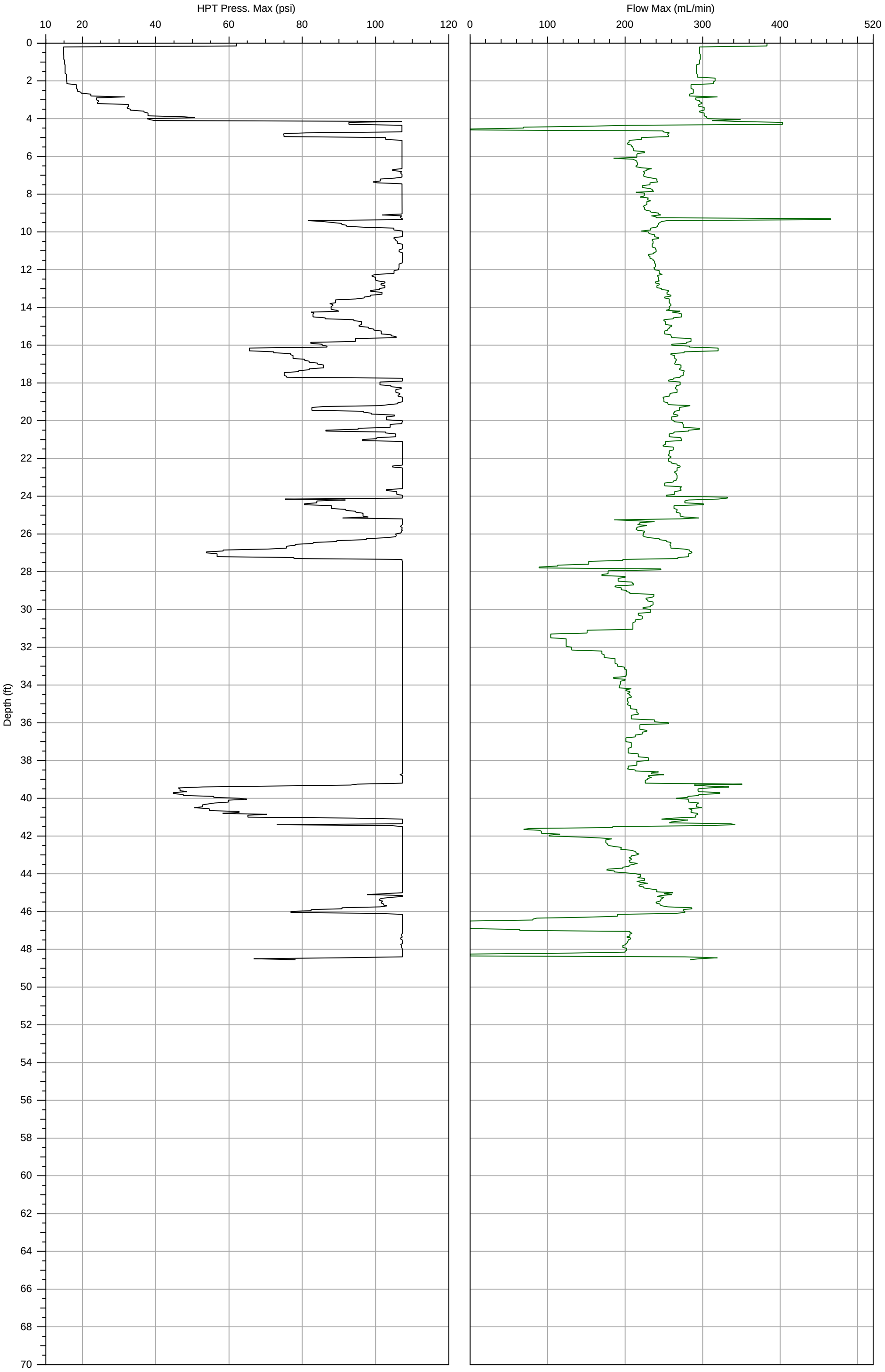
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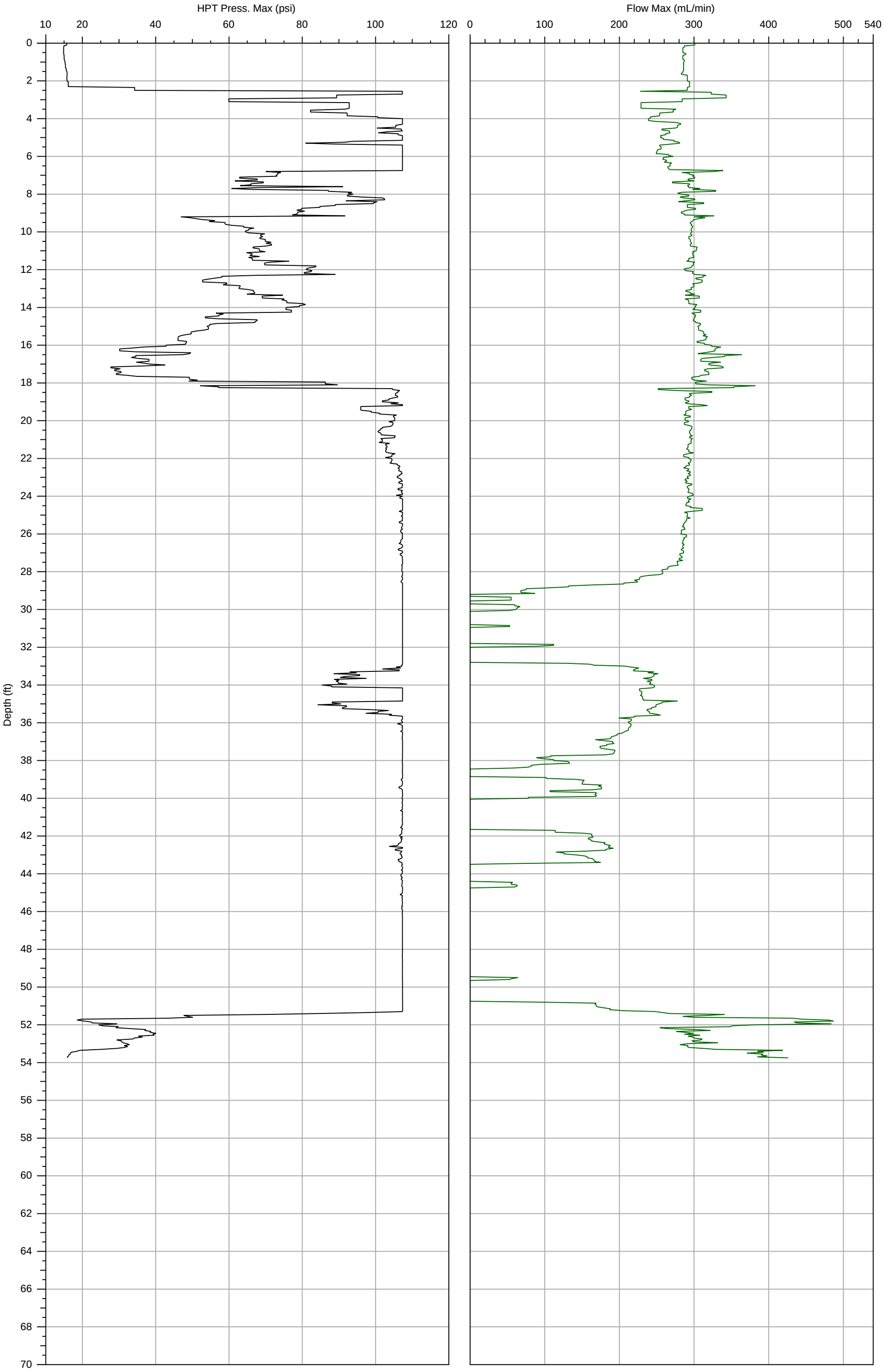
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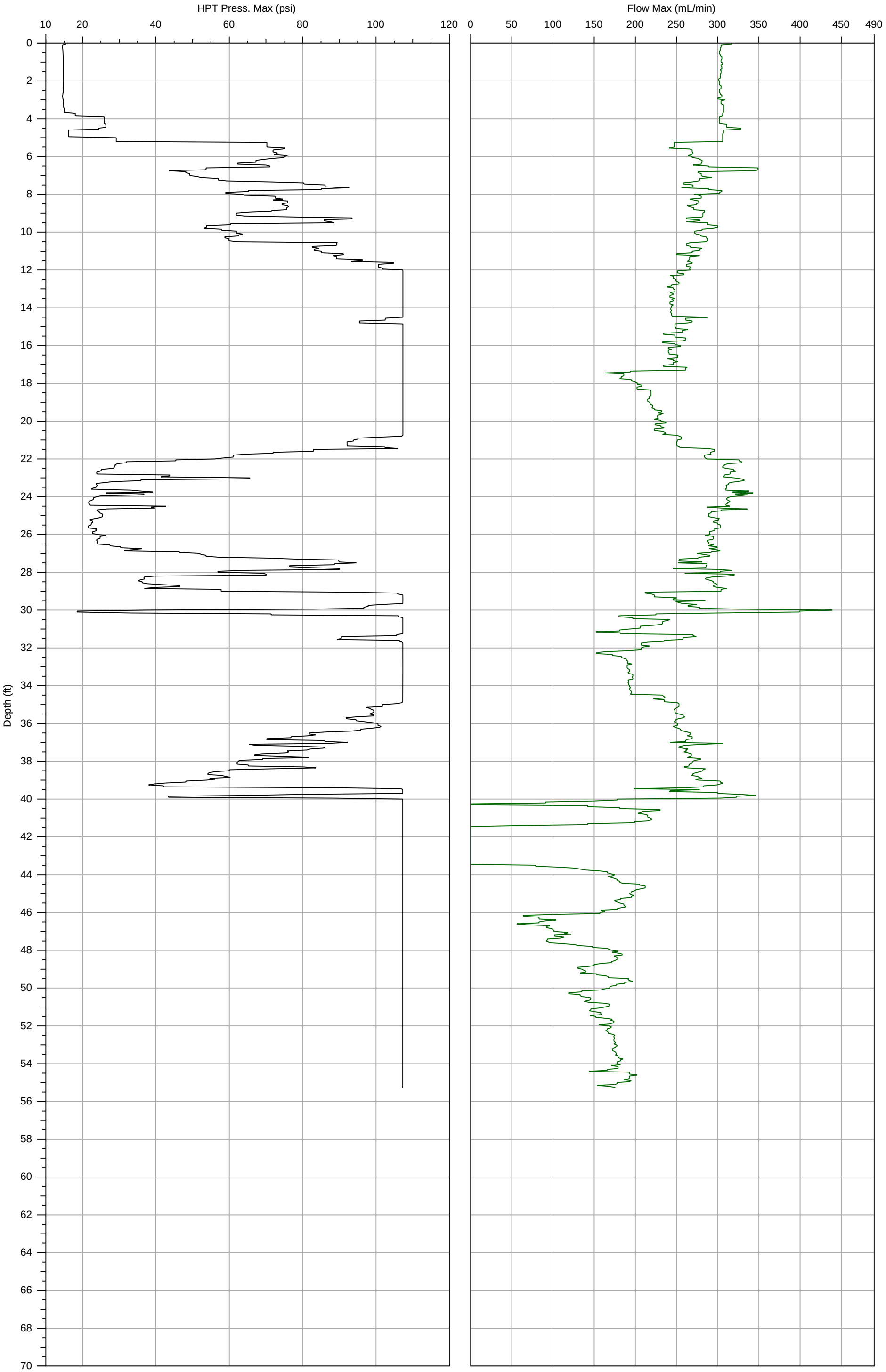
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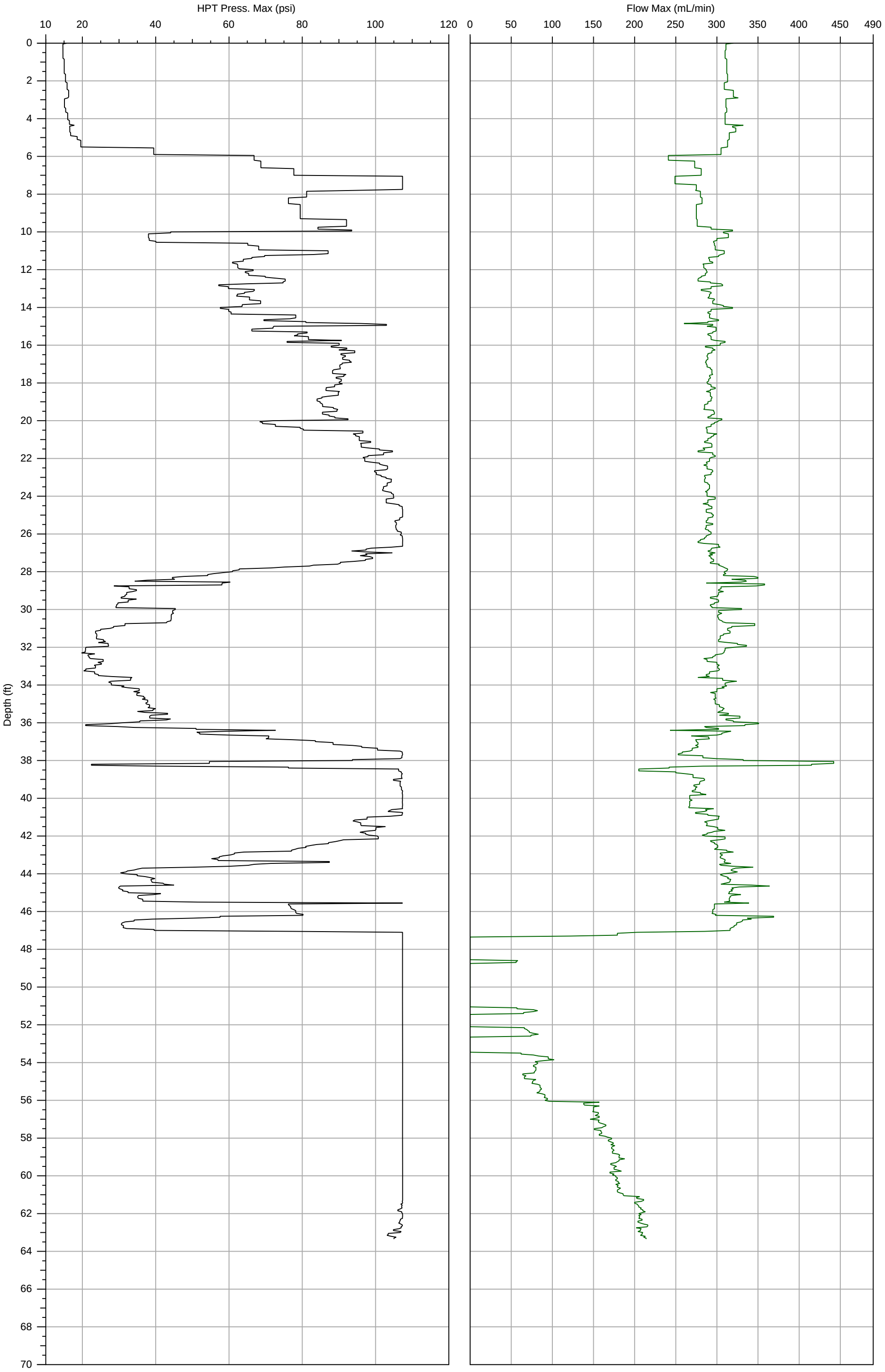
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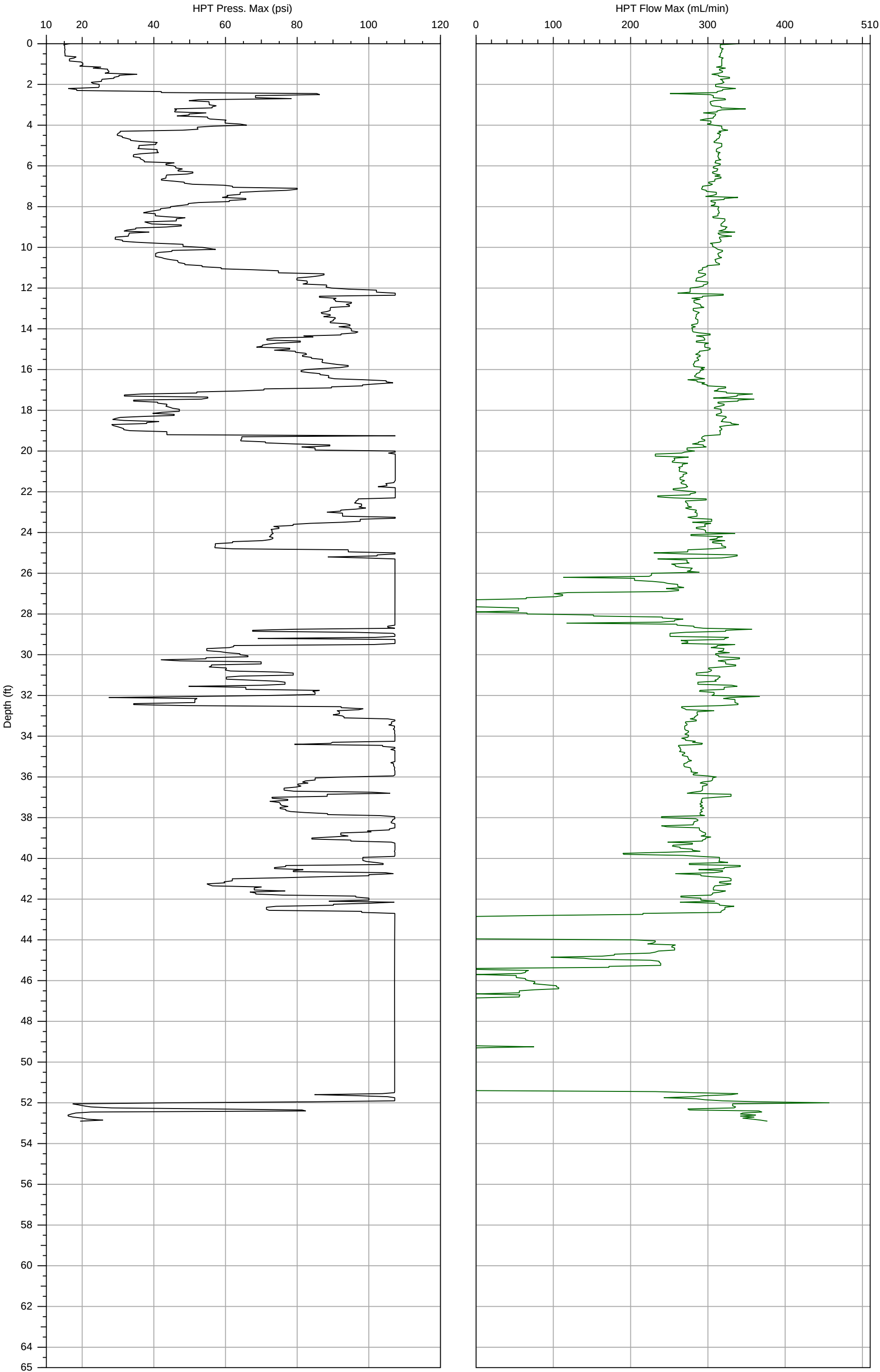
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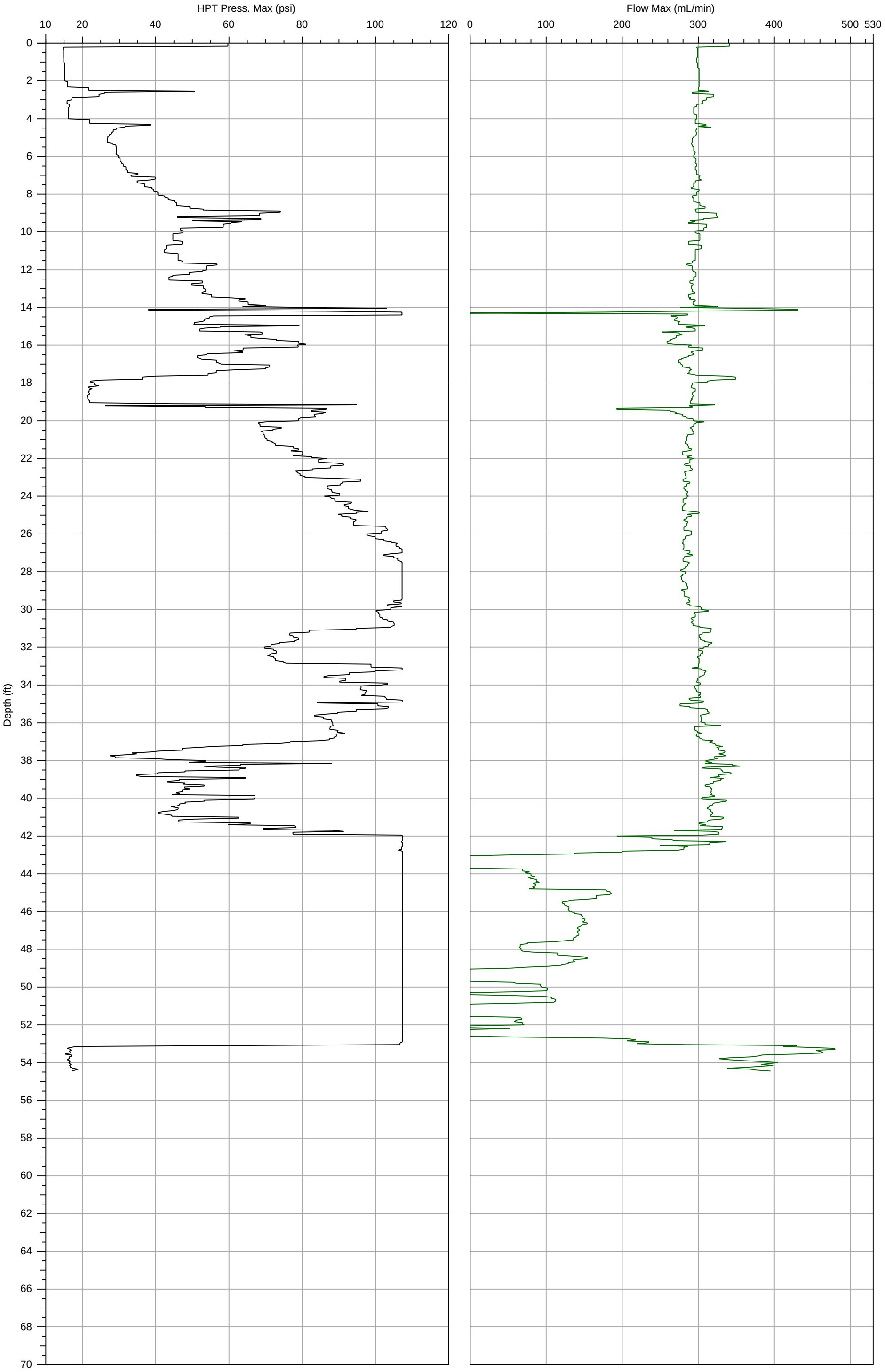
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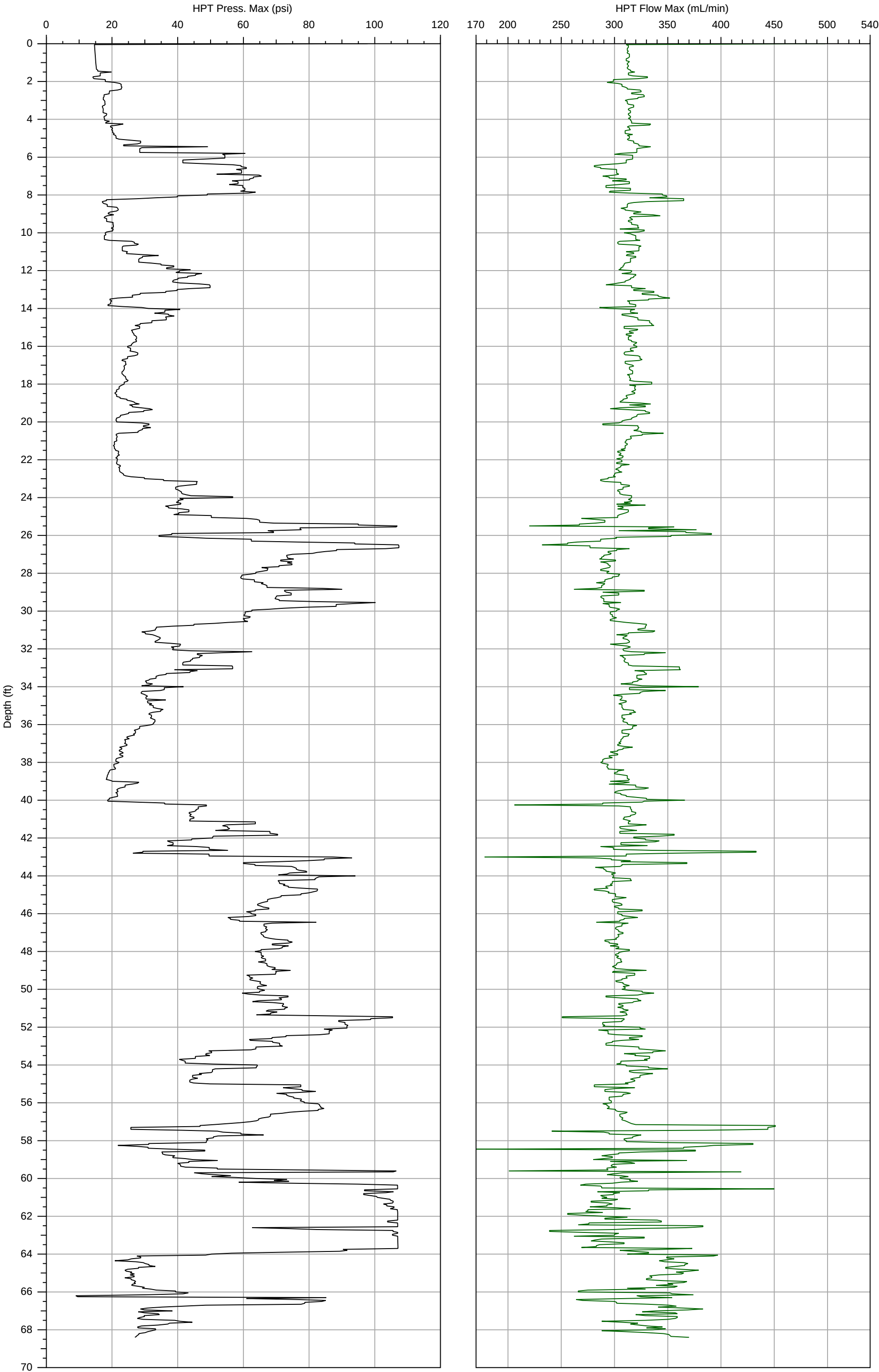
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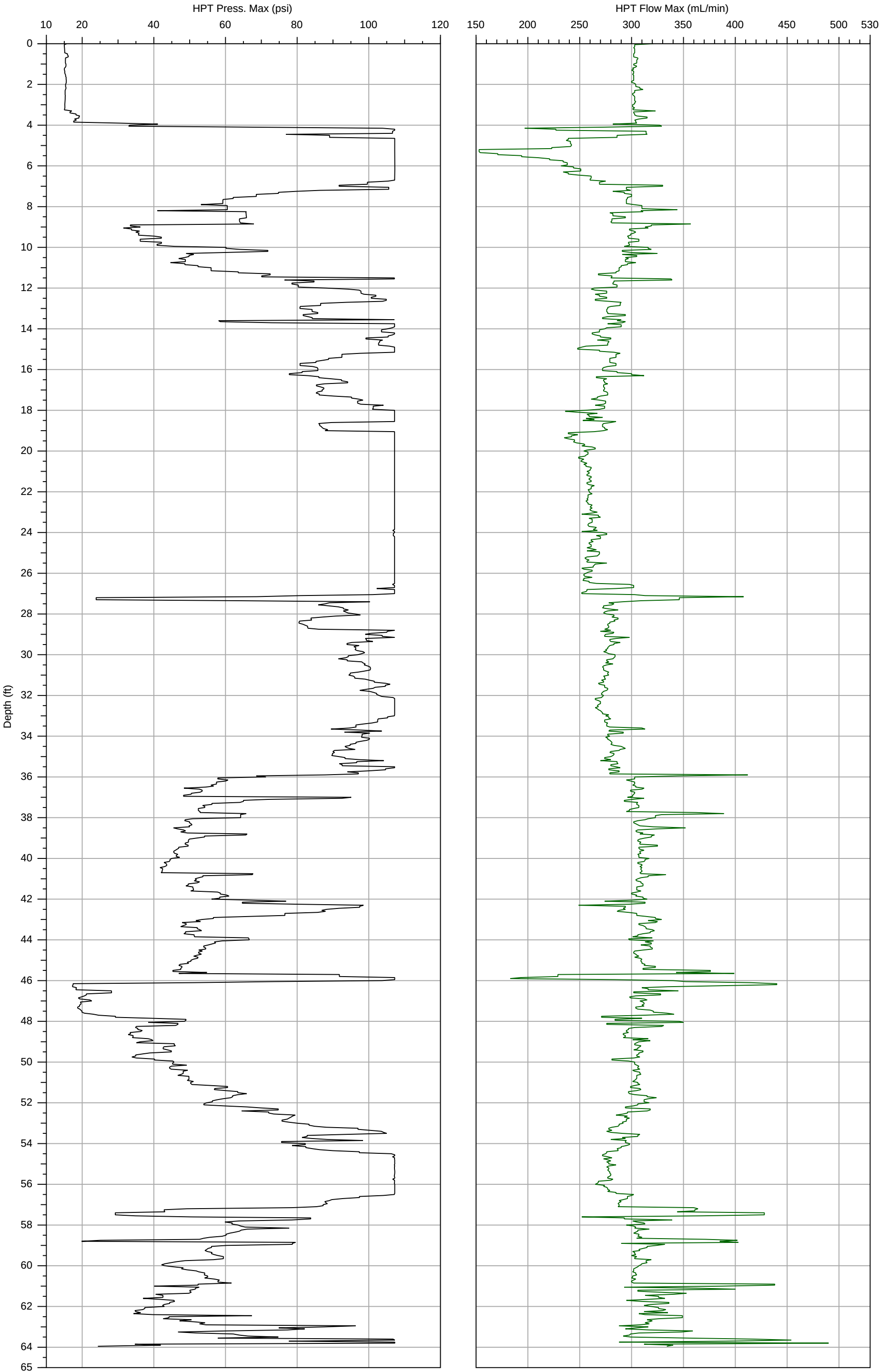
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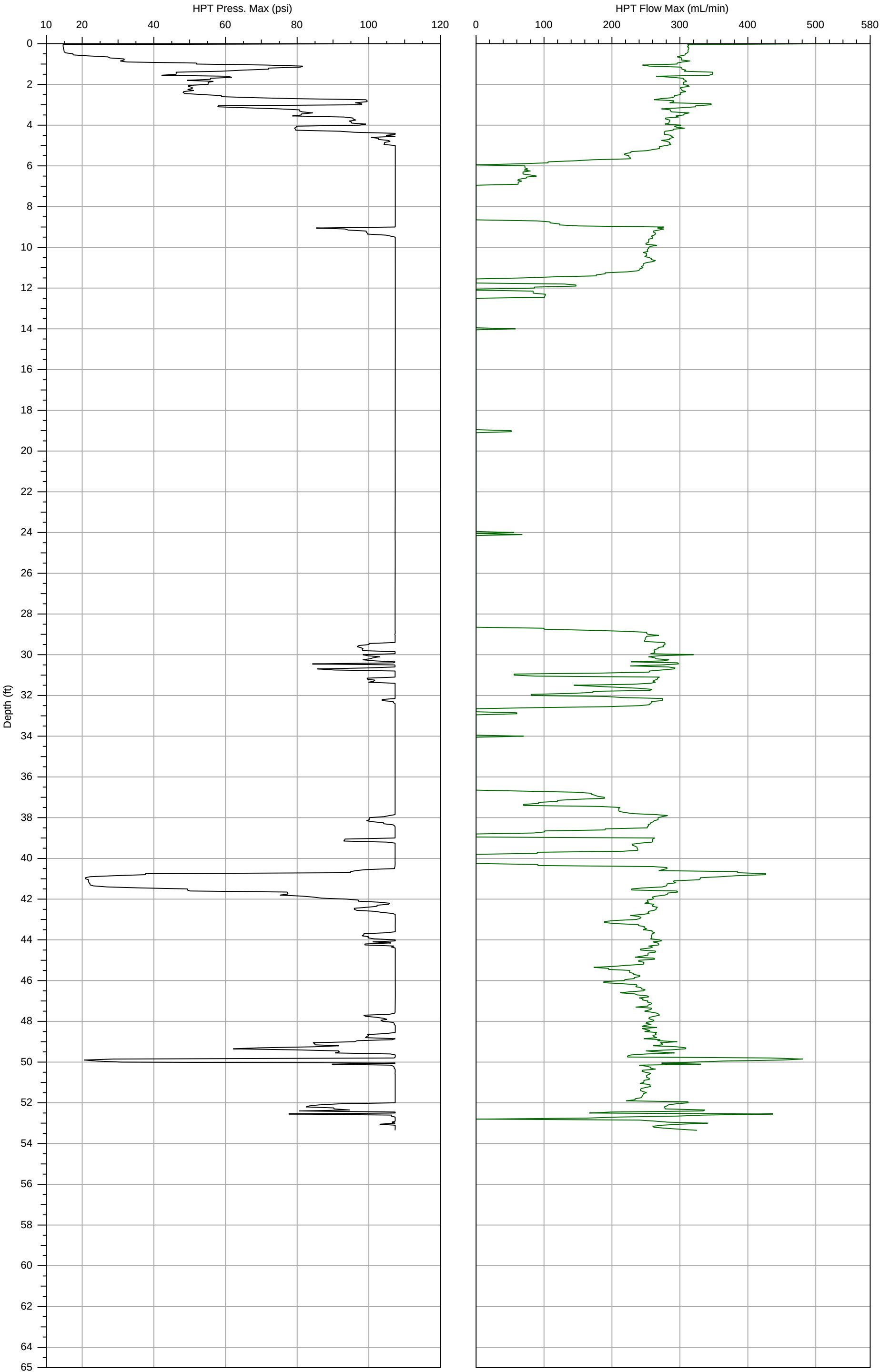
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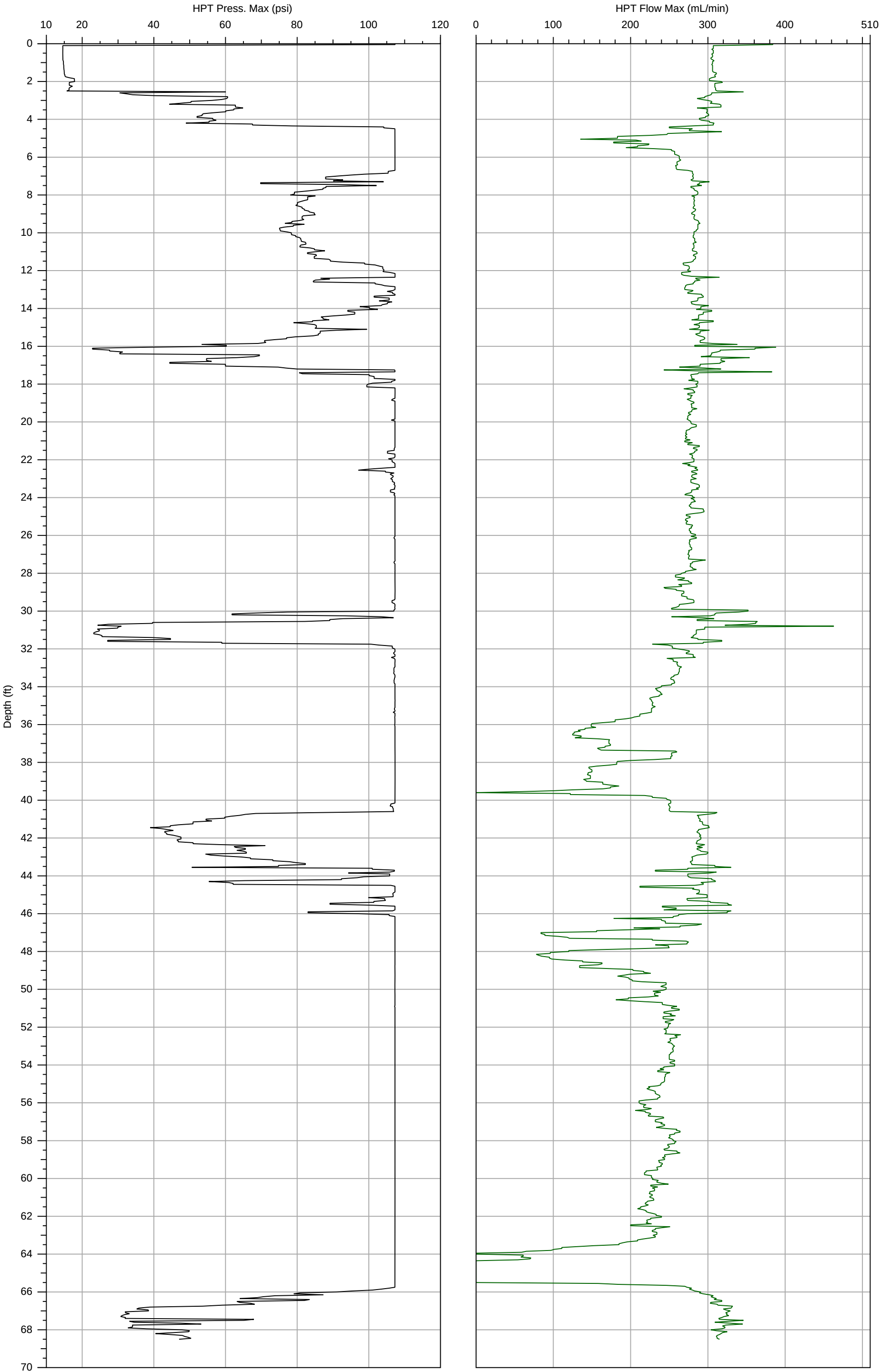
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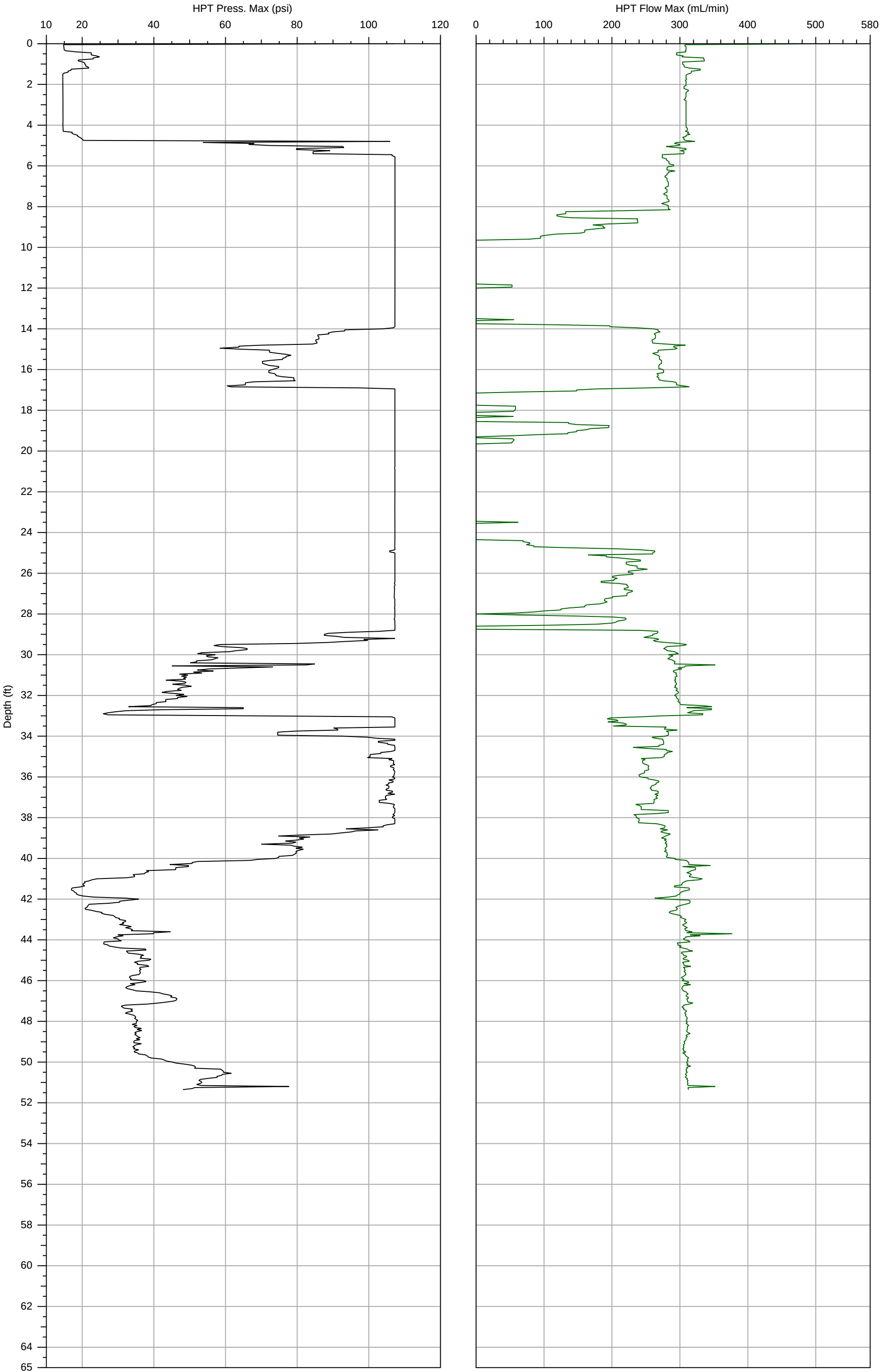
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Project ID:	RACER Lansing	Client:	RACER	Date:	
				Location:	



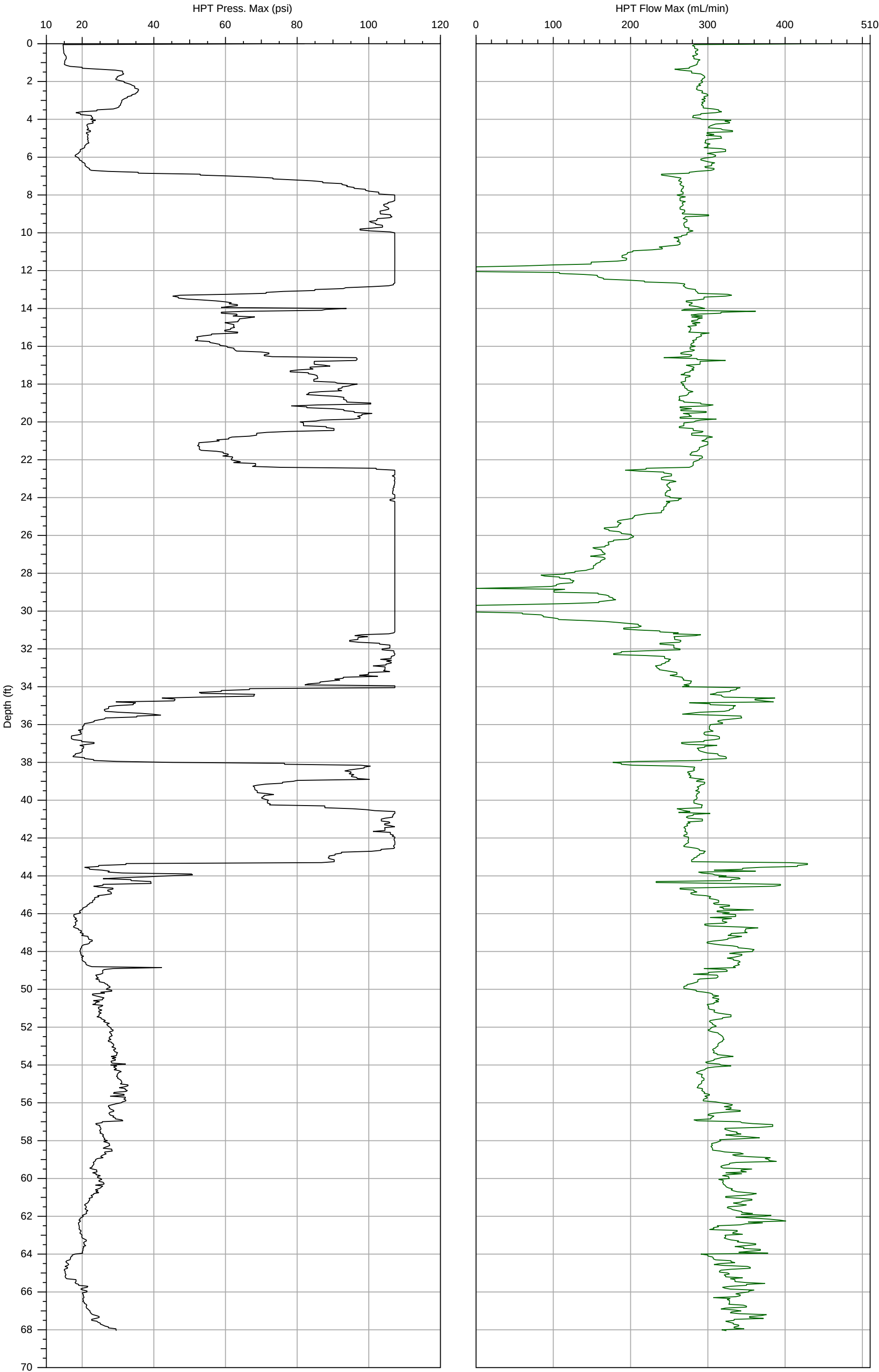
Company:	ARCADIS	Operator:	Geoserv, Inc.	File:	P6SQT108.DAT
Project ID:	RACER Lansing	Client:	RACER	Date:	
				Location:	



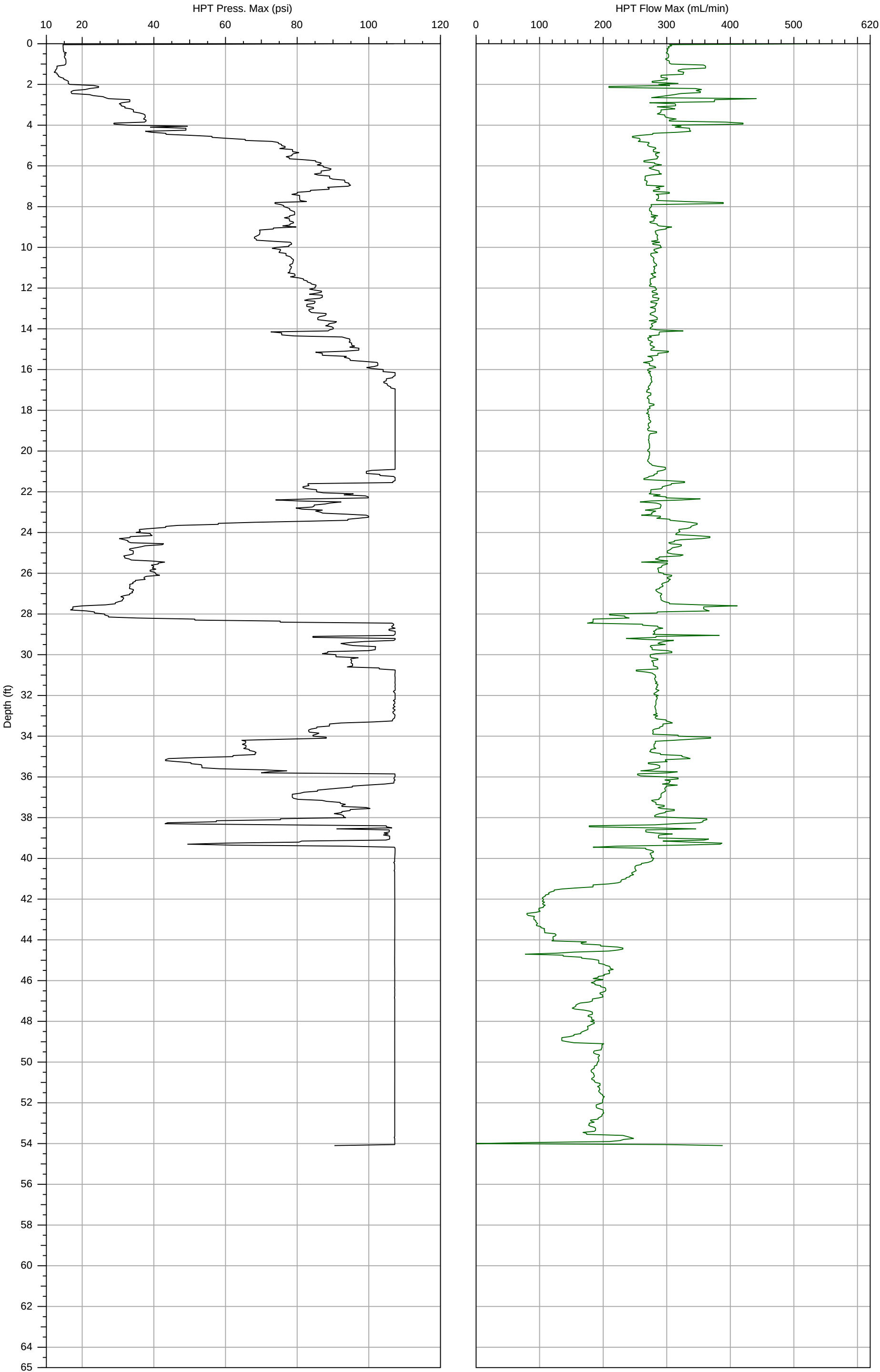
Company:	ARCADIS	Operator:	Geoserv, Inc.	File:	P6SQT147.DAT
Project ID:	RACER Lansing	Client:	RACER	Date:	
				Location:	



Company: ARCADIS		Operator: Geoserv, Inc.	File: P6SSY103.DAT
Project ID: RACER Lansing		Client: RACER	Date:
			Location:



Company: ARCADIS		Operator: Geoserv, Inc.	File: P6SSY132.DAT
Project ID: RACER Lansing		Client: RACER	Date:
			Location:

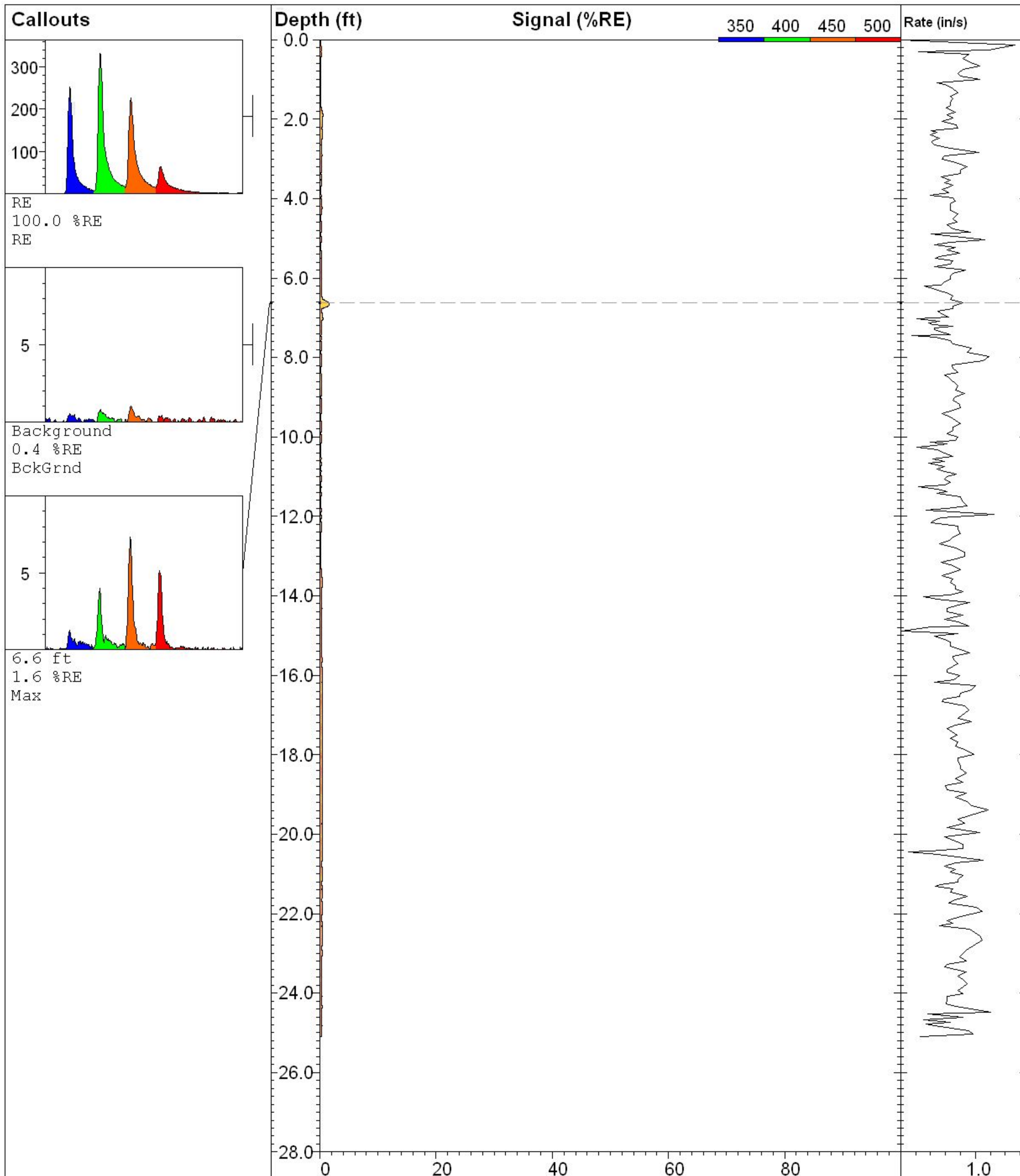


Company: ARCADIS		Operator: Geoserv, Inc.	File: P6SSZ160.DAT
Project ID: RACER Lansing		Client: RACER	Date:
			Location:



Appendix D 3

Investigation - LIF Logs



PO Box 186 - Ida, MI 48140
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LIF-A5.2-NE117

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.282 / ?

Final depth:
25.10 ft

Client:
Arcadis

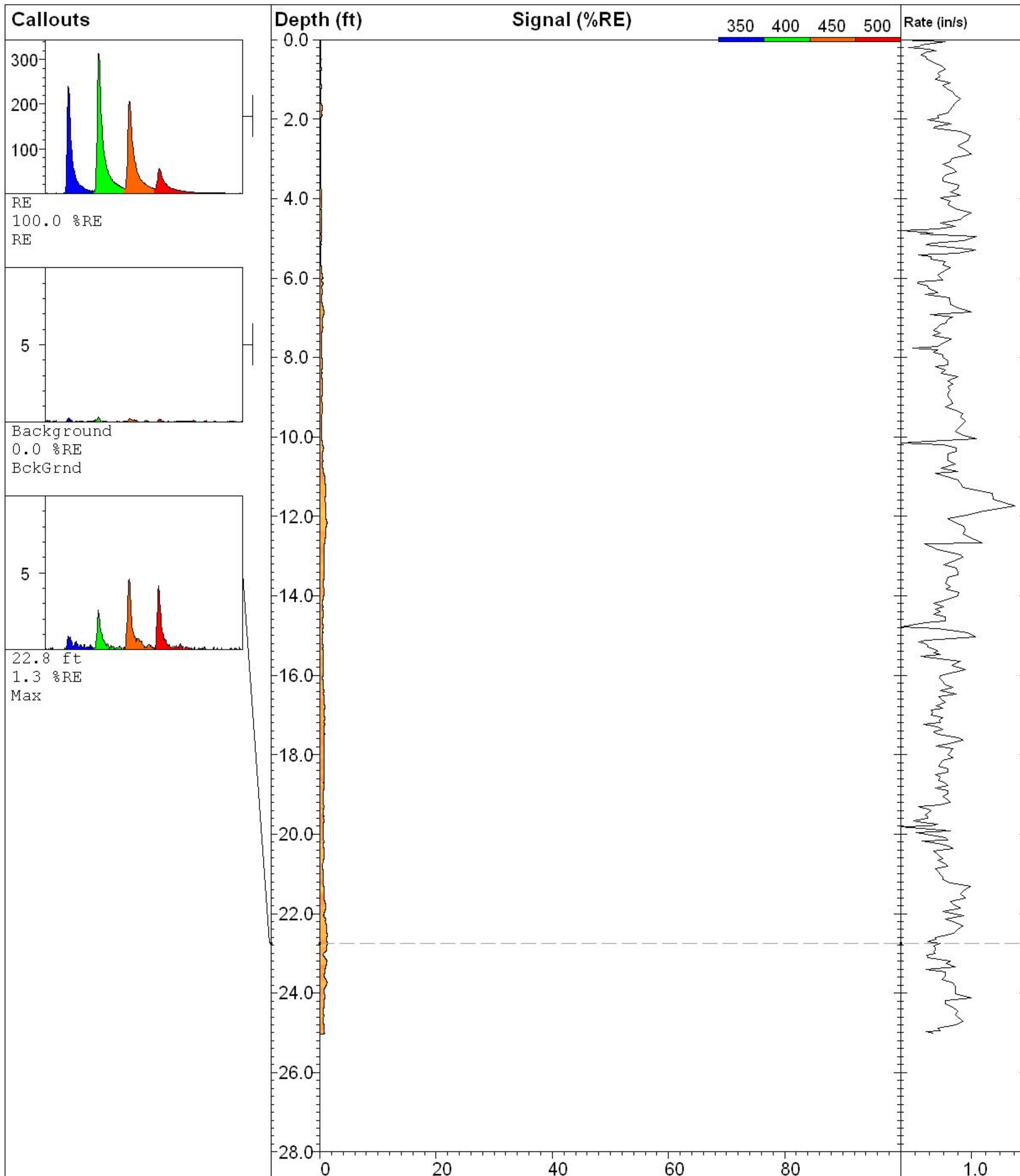
Longitude / Fix:
84.35.102 / 0D

Max signal:
1.6 % @ 6.63 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-16 12:56 EDT



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www.StockDrilling.com

LIF-A5.2-NE134

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.287 / ?

Final depth:
25.03 ft

Client:
Arcadis

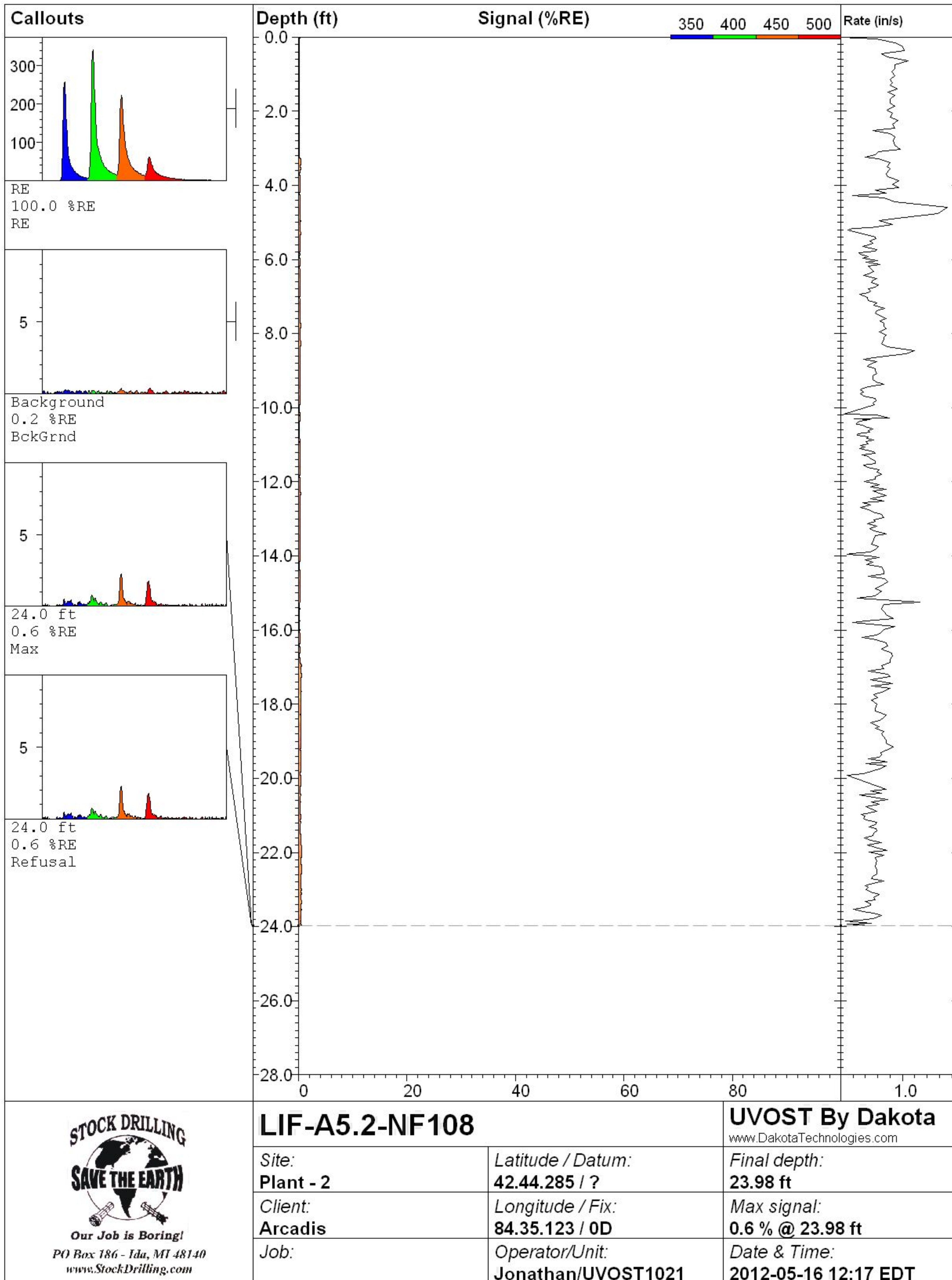
Longitude / Fix:
84.35.066 / 0D

Max signal:
1.3 % @ 22.76 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-16 14:52 EDT



LIF-A5.2-NF108

UVOST By Dakota
www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.285 / ?

Final depth:
23.98 ft

Client:
Arcadis

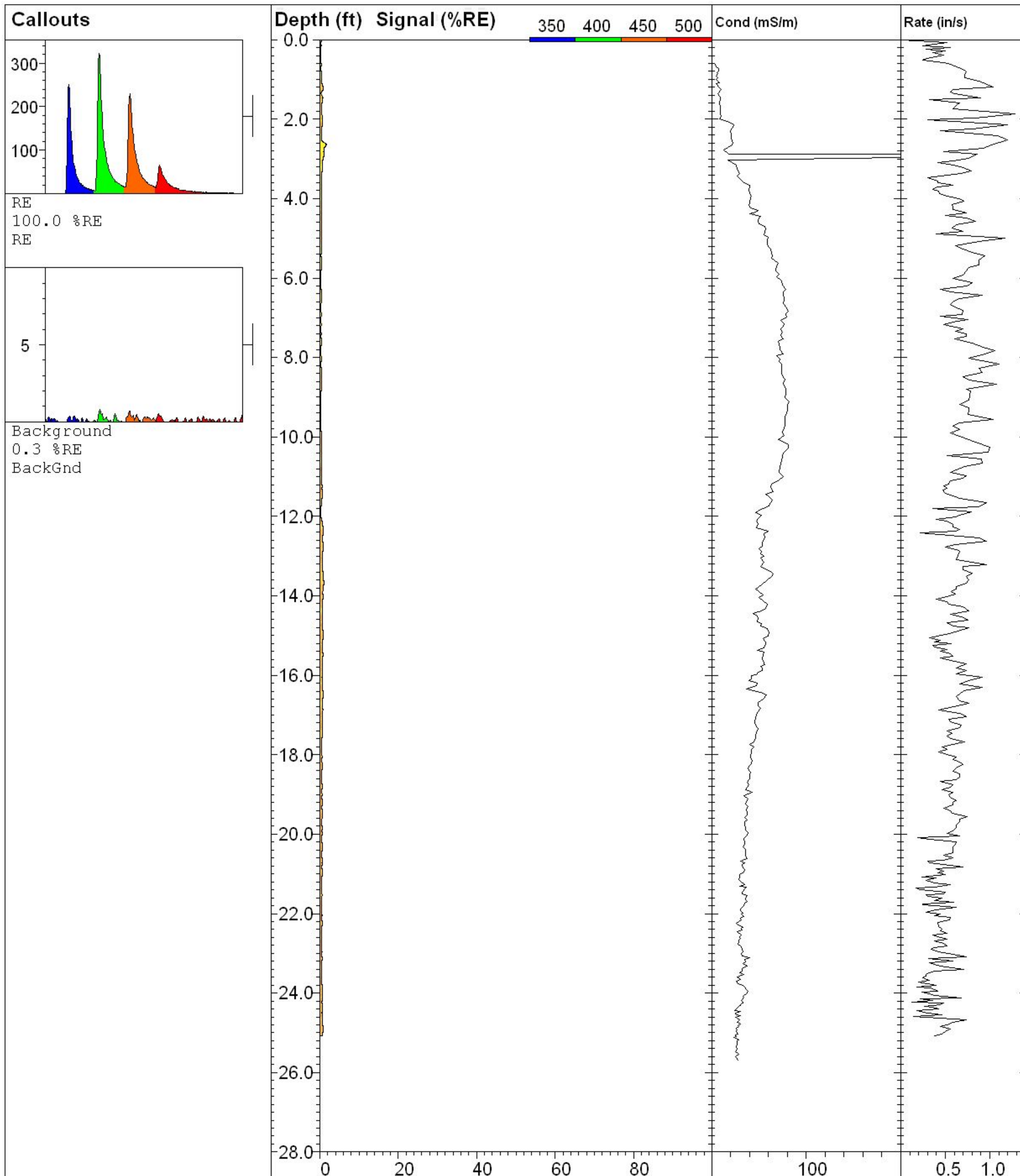
Longitude / Fix:
84.35.123 / 0D

Max signal:
0.6 % @ 23.98 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-16 12:17 EDT



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LIF-A5.2-NG126

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.281 / ?

Final depth:
25.08 ft

Client:
Arcadis

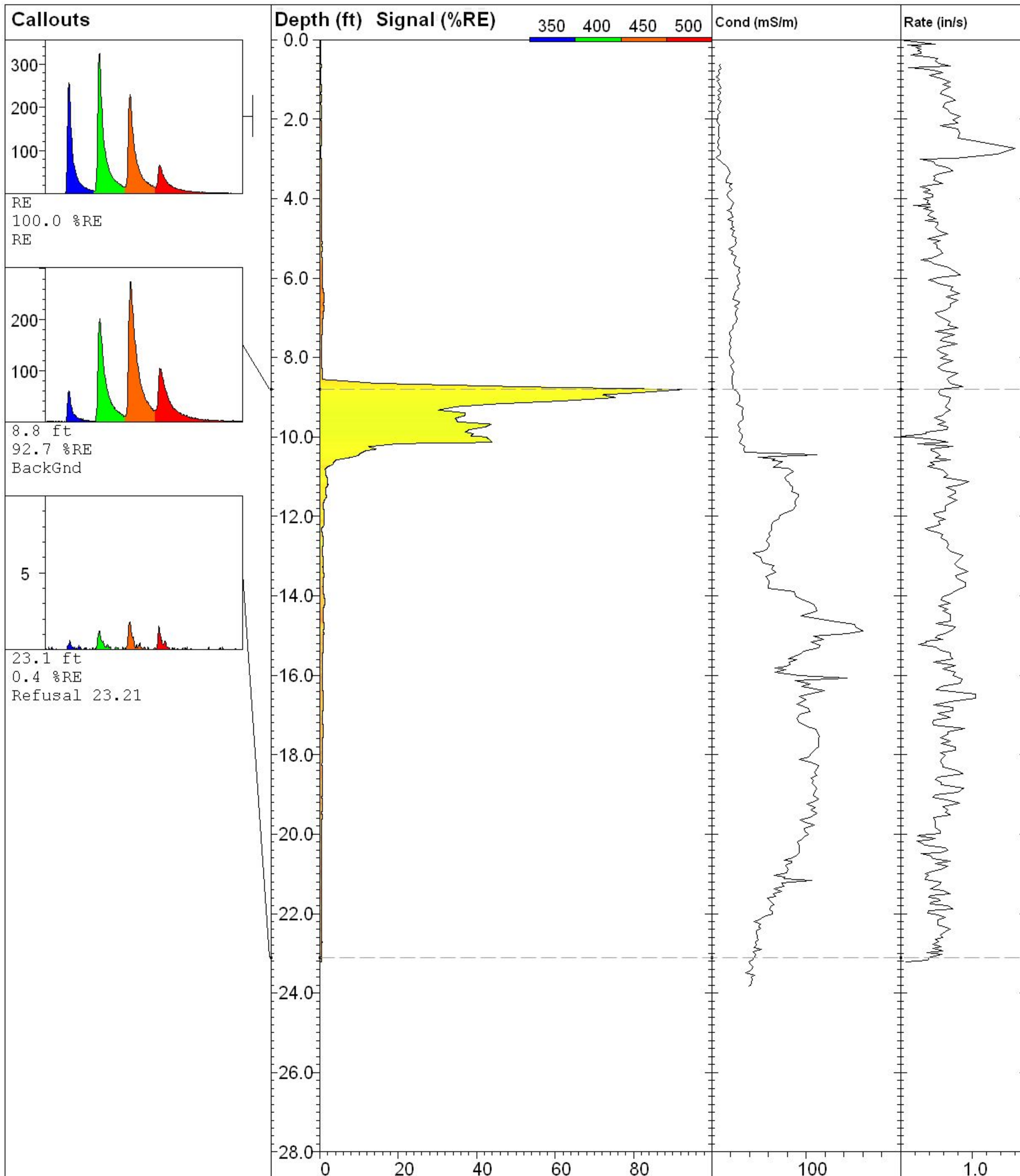
Longitude / Fix:
84.35.085 / 0D

Max signal:
1.6 % @ 2.64 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-10 10:33 EDT



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LIF-A5.2-NJ129

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.273 / ?

Final depth:
23.21 ft

Client:
Arcadis

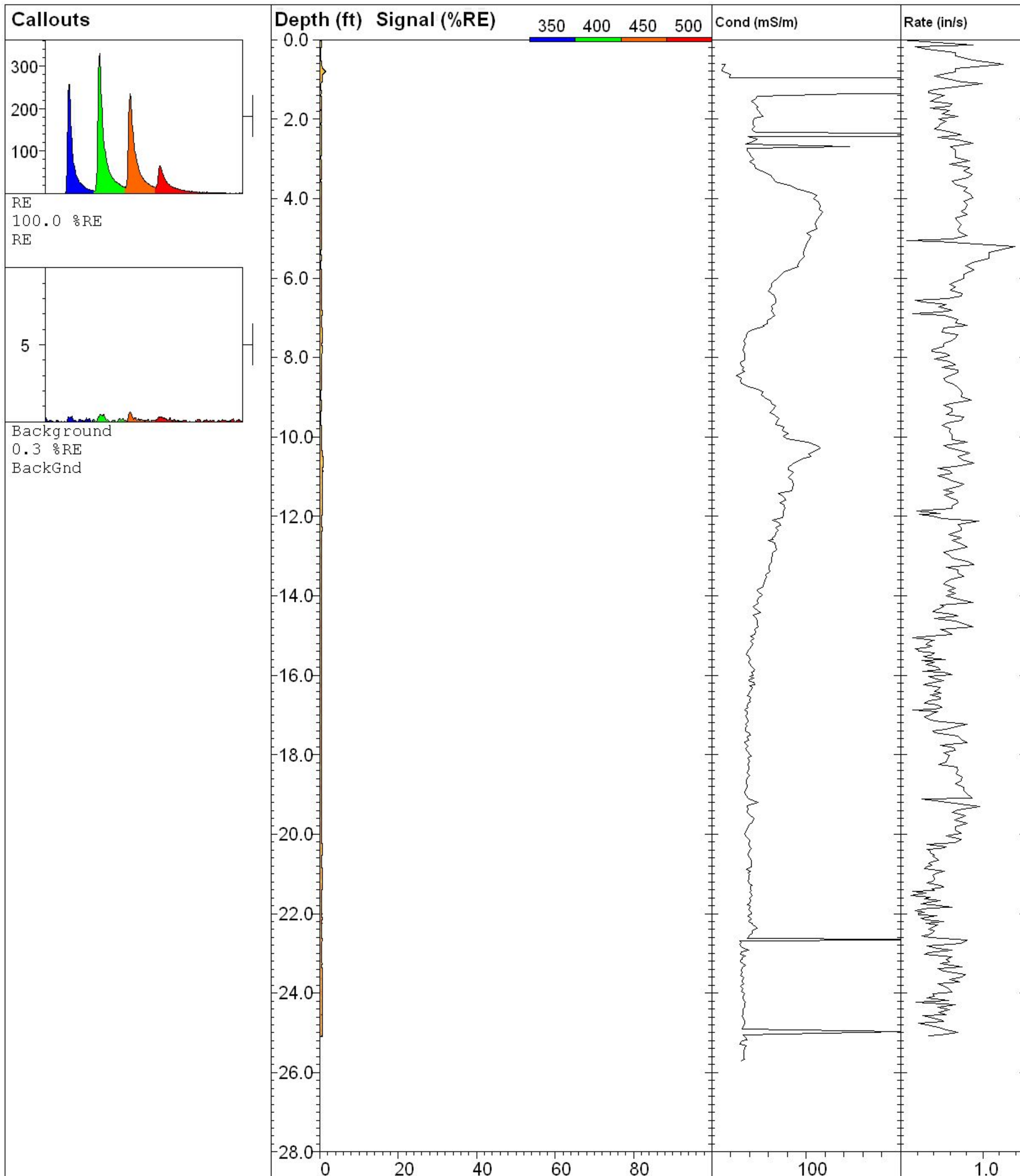
Longitude / Fix:
84.35.074 / 0D

Max signal:
92.7 % @ 8.81 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-10 11:15 EDT



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LIF-A5.2-NK135

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.278 / ?

Final depth:
25.09 ft

Client:
Arcadis

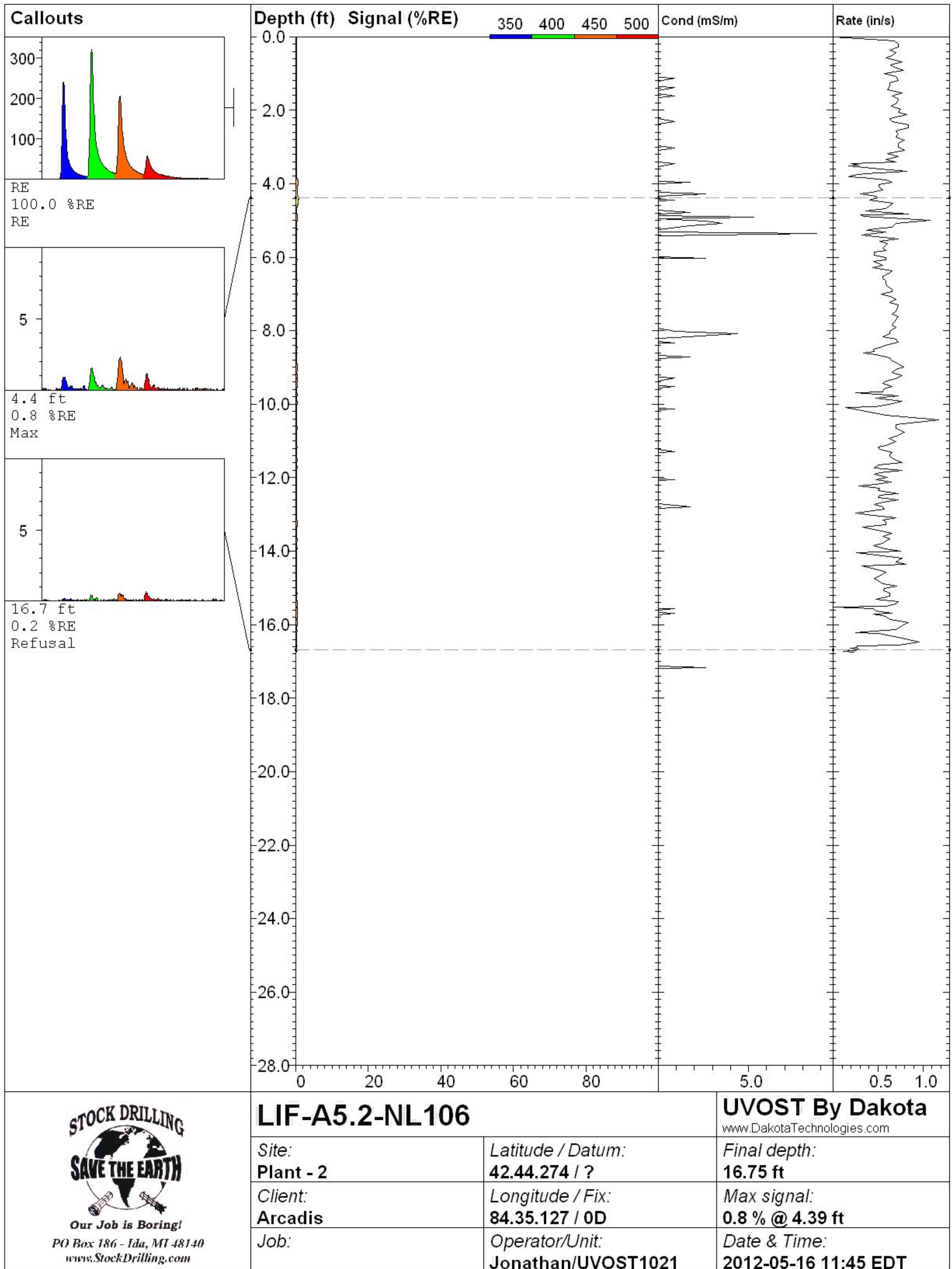
Longitude / Fix:
84.35.060 / 0D

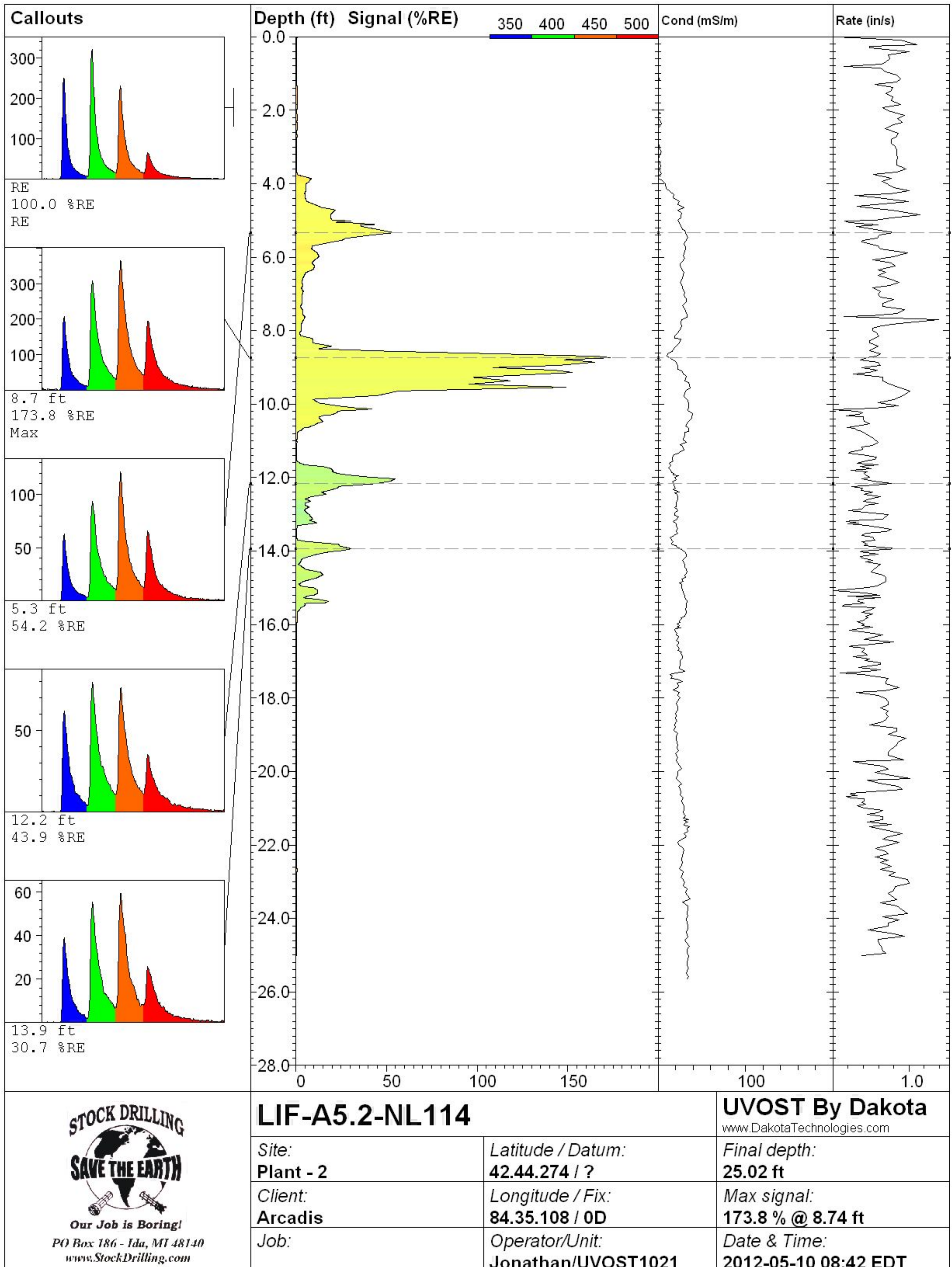
Max signal:
1.4 % @ 0.80 ft

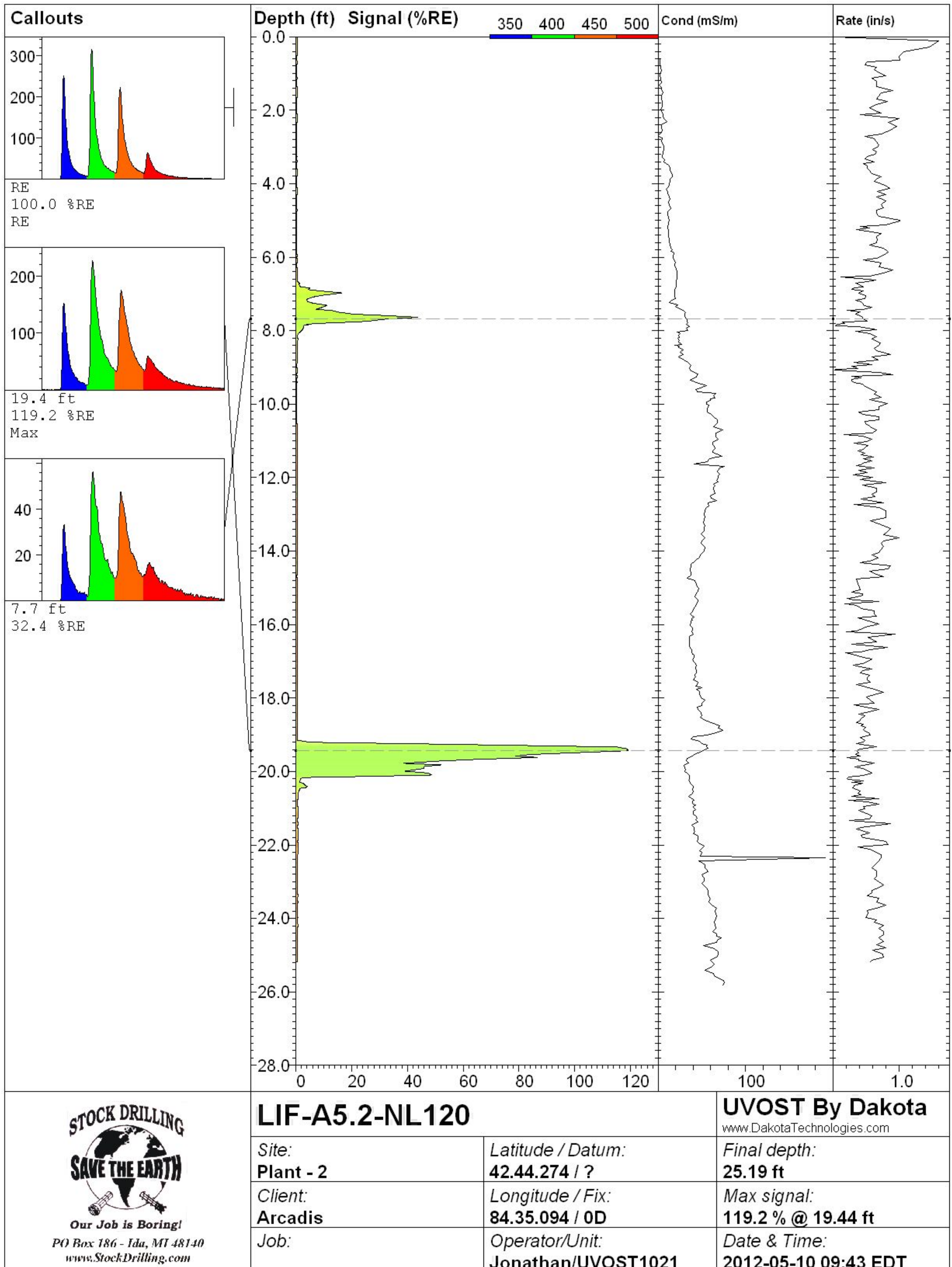
Job:

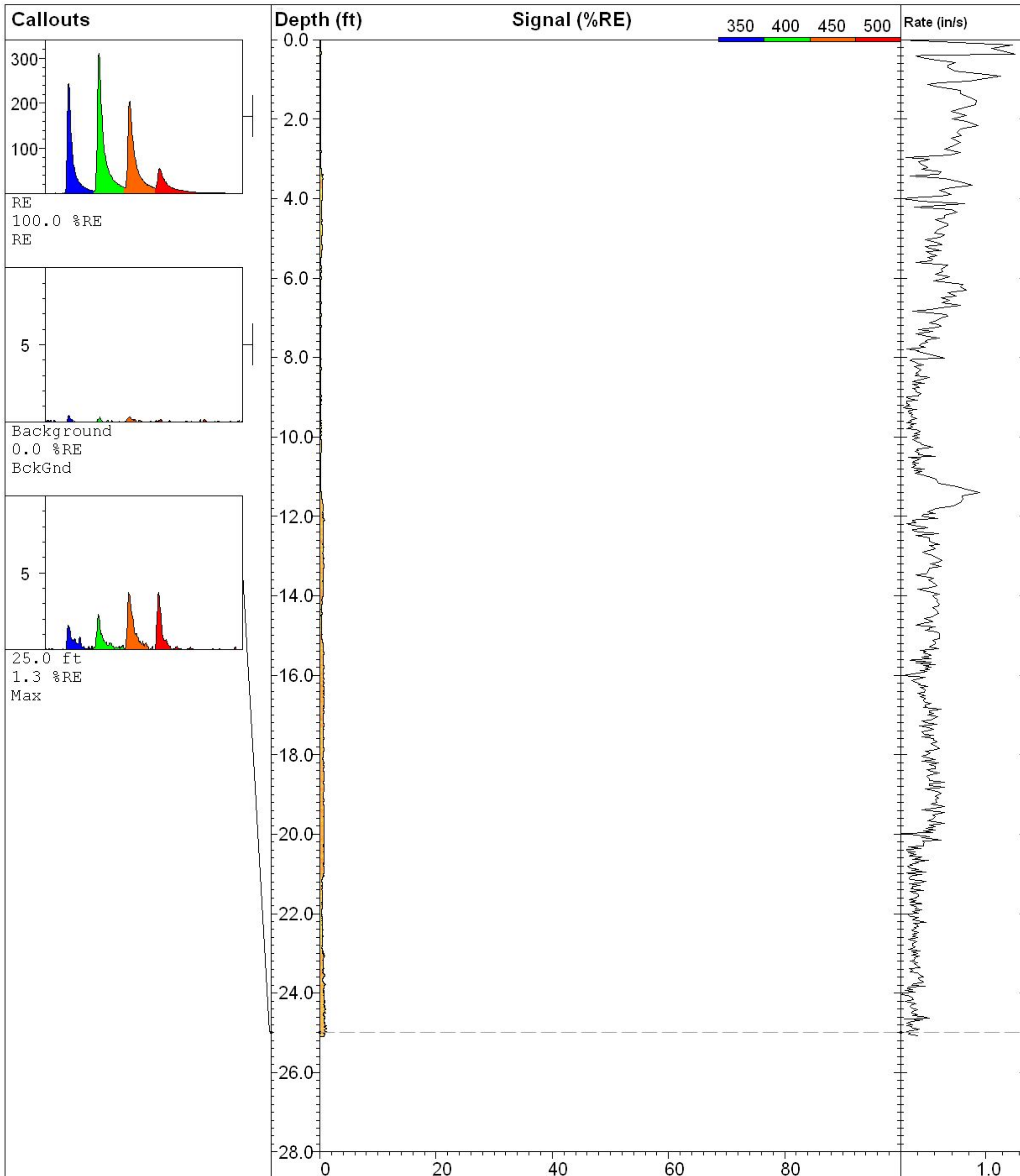
Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-10 12:09 EDT









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www.StockDrilling.com

LIF-A5.2-NN97

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.271 / ?

Final depth:
25.09 ft

Client:
Arcadis

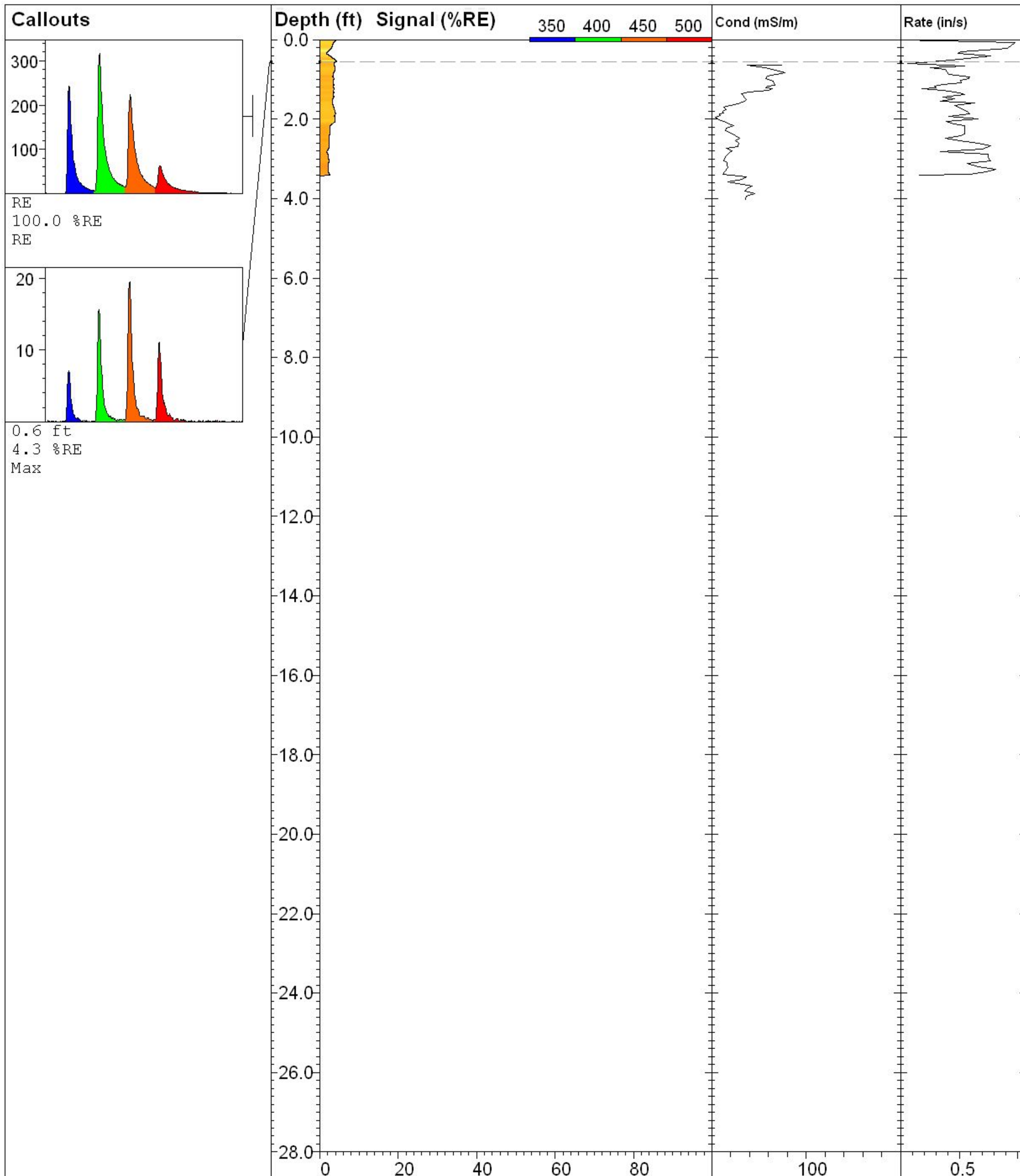
Longitude / Fix:
84.35.147 / 0D

Max signal:
1.3 % @ 24.98 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-06-04 10:35 EDT



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LIF-A5.2-NS106

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.262 / ?

Final depth:
3.43 ft

Client:
Arcadis

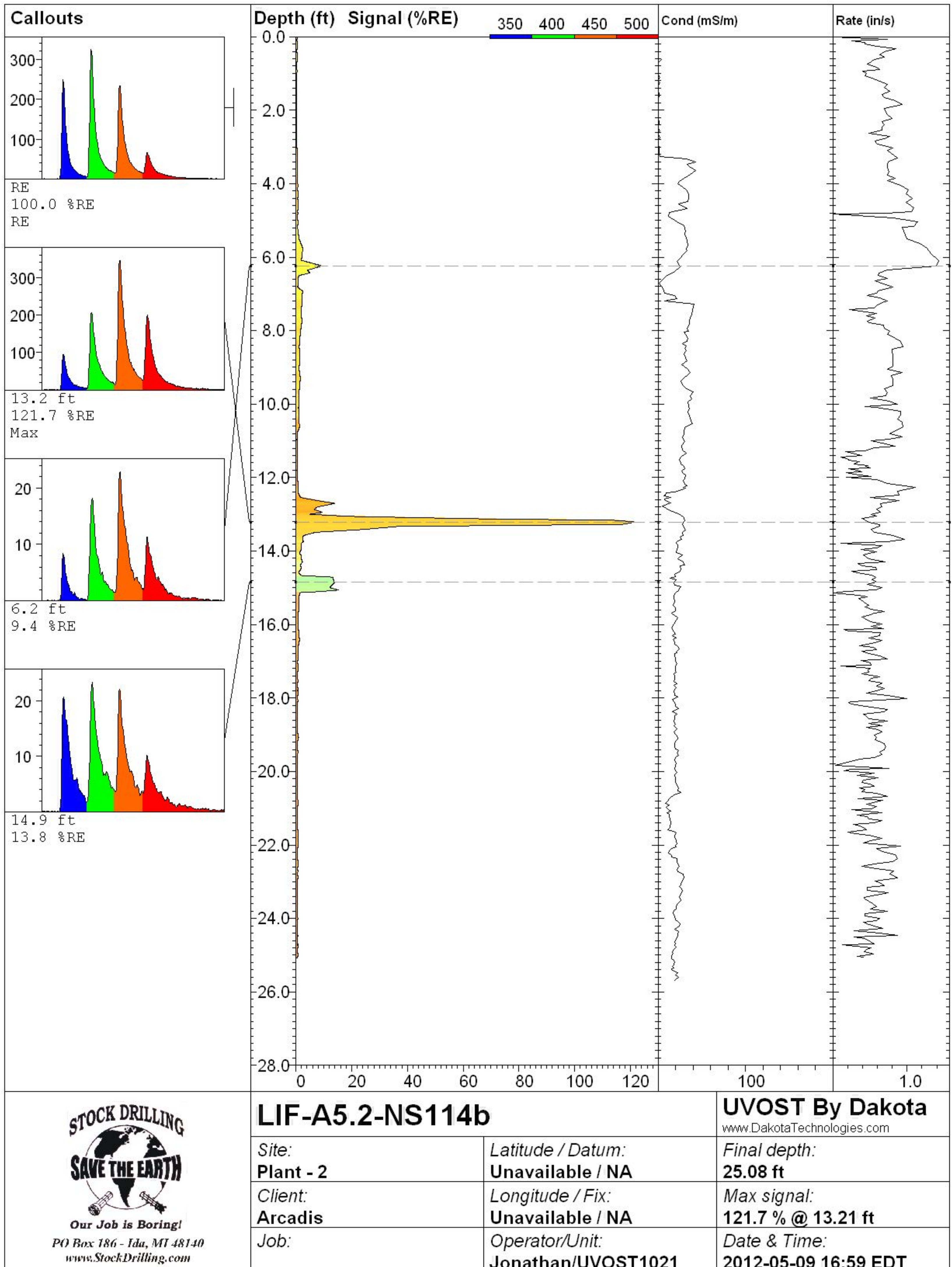
Longitude / Fix:
84.35.129 / 0D

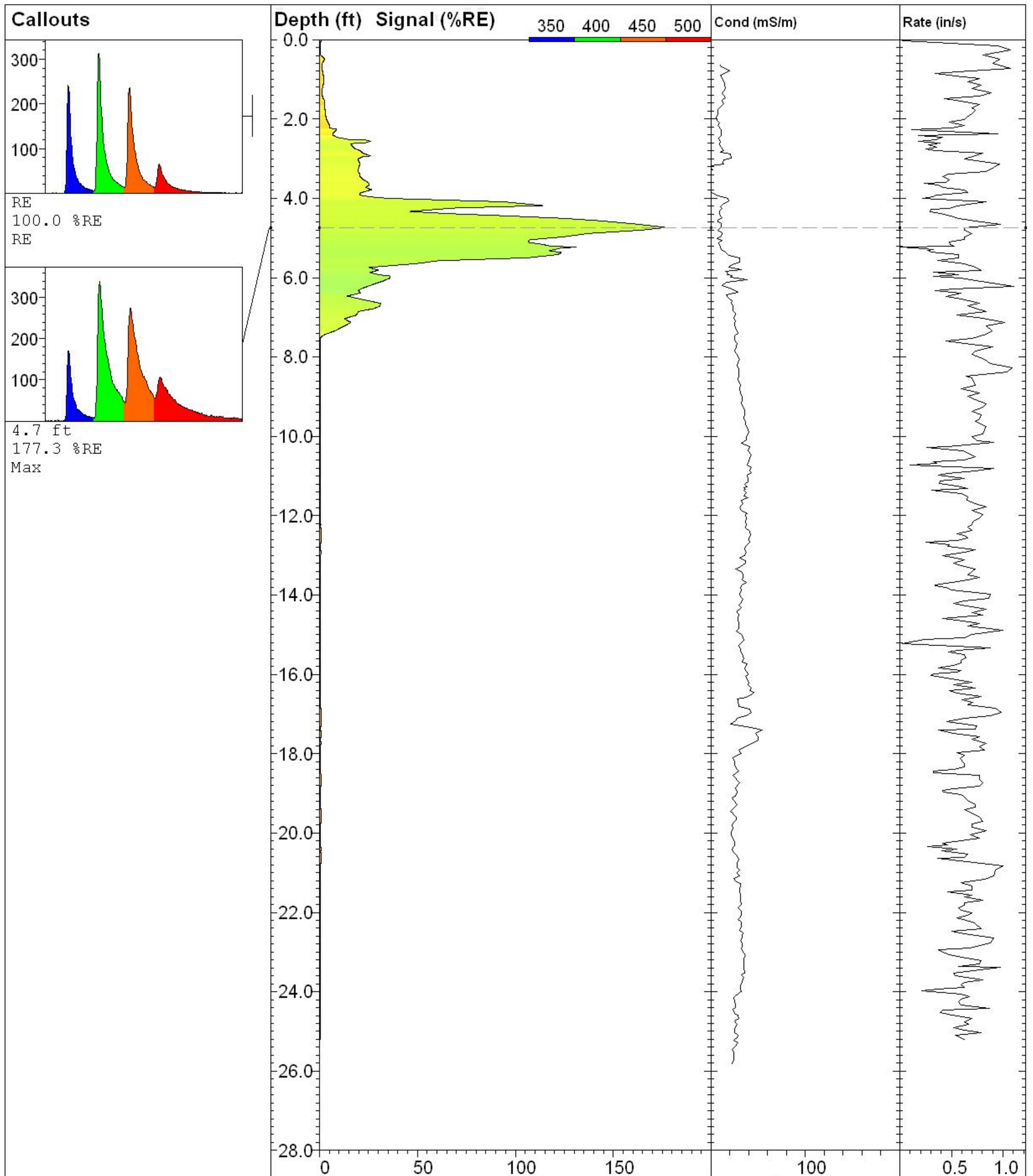
Max signal:
4.3 % @ 0.55 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-10 08:13 EDT





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LIF-A5.2-NS123

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.266 / ?

Final depth:
25.21 ft

Client:
Arcadis

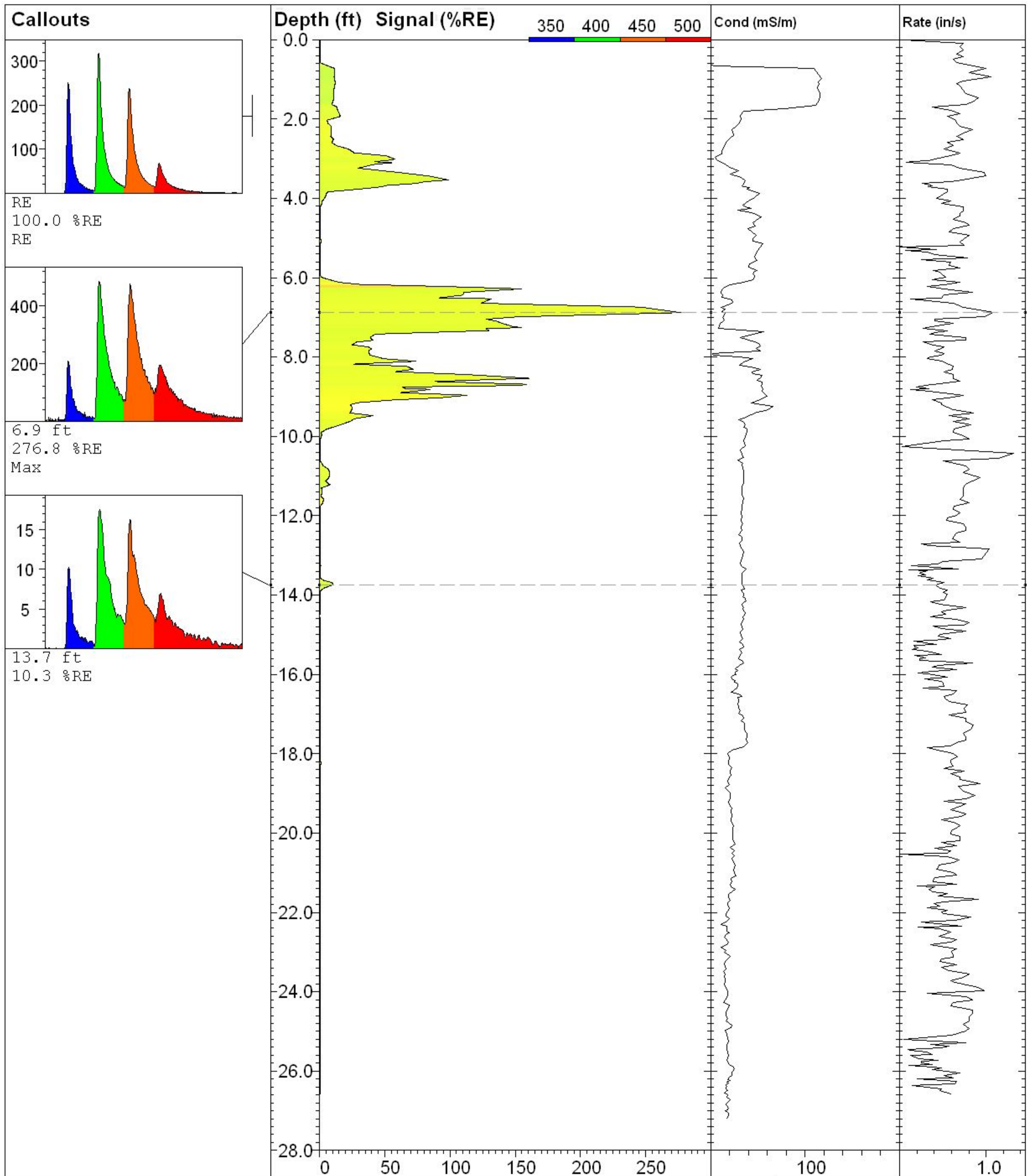
Longitude / Fix:
84.35.087 / 0D

Max signal:
177.3 % @ 4.74 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-08 09:57 EDT



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LIF-A5.2-NS126

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.265 / ?

Final depth:
26.58 ft

Client:
Arcadis

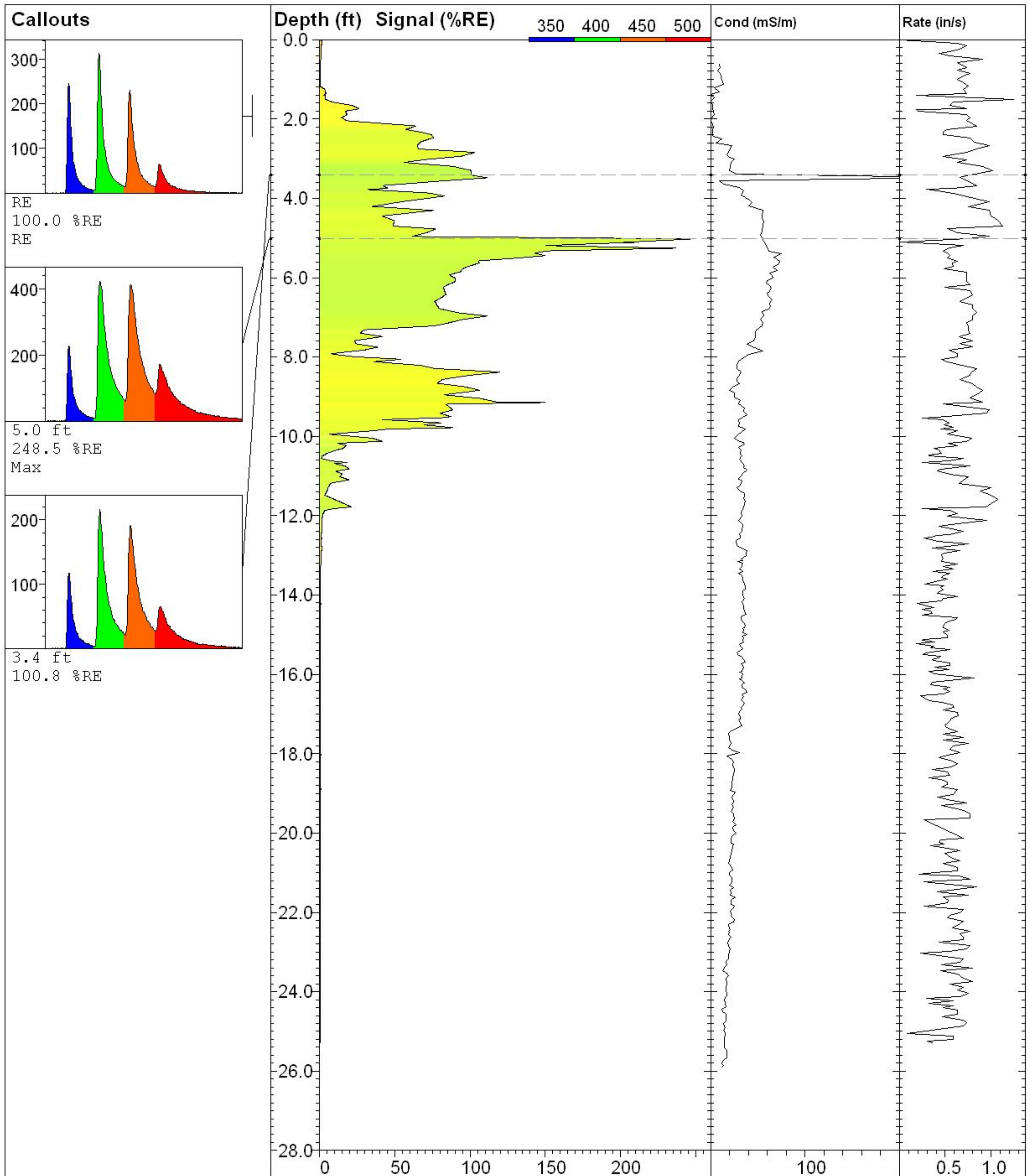
Longitude / Fix:
84.35.080 / 0D

Max signal:
276.8 % @ 6.88 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-08 09:15 EDT



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LIF-A5.2-NS129

UVOST By Dakota

www.DakotaTechnologies.com

Site:

Plant - 2

Latitude / Datum:

42.44.264 / ?

Final depth:

25.28 ft

Client:

Arcadis

Longitude / Fix:

84.35.076 / 0D

Max signal:

248.5 % @ 5.02 ft

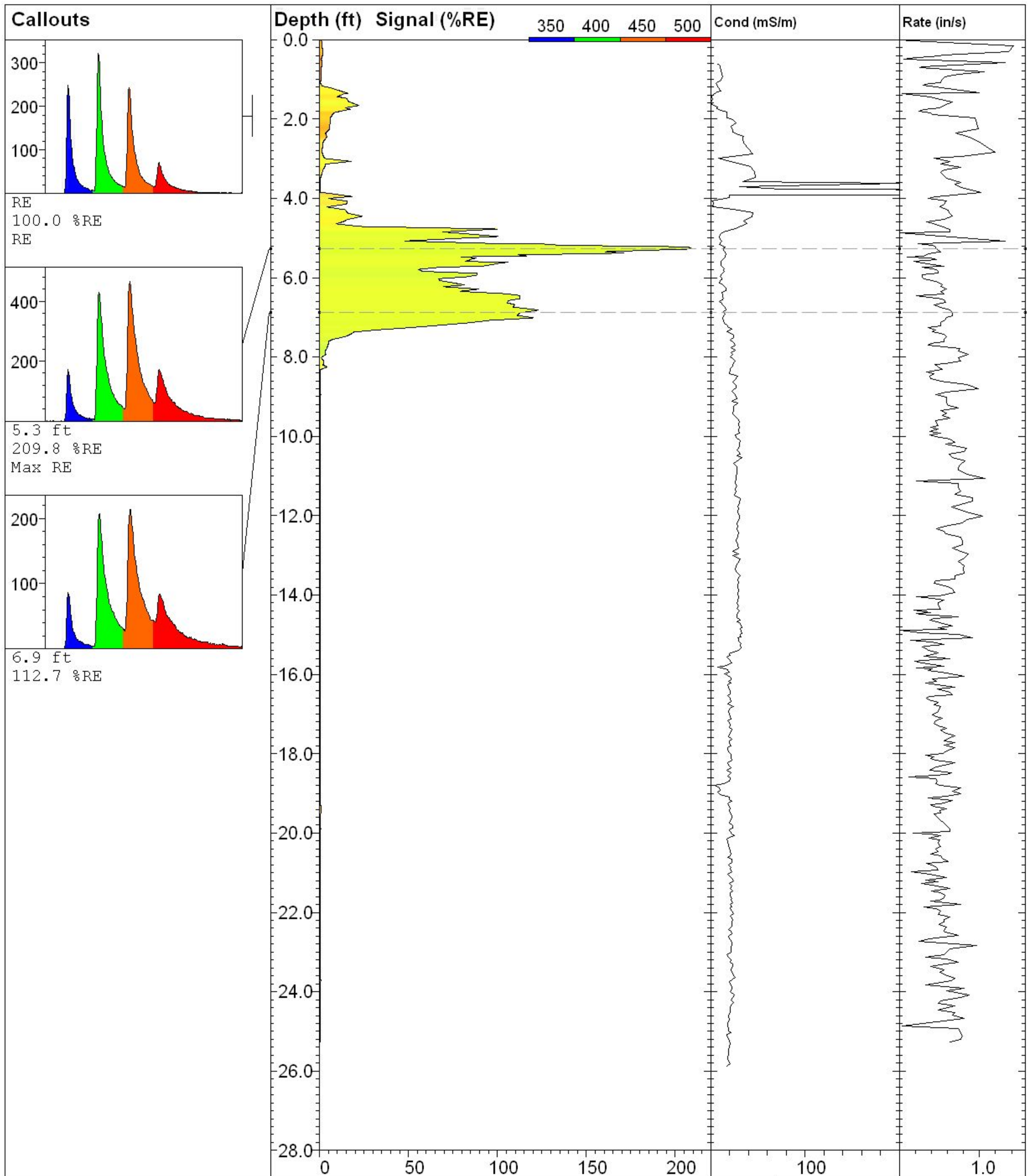
Job:

Operator/Unit:

/UVOST1021

Date & Time:

2012-05-08 08:21 EDT



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LIF-A5.2-NS132

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.266 / ?

Final depth:
25.27 ft

Client:
Arcadis

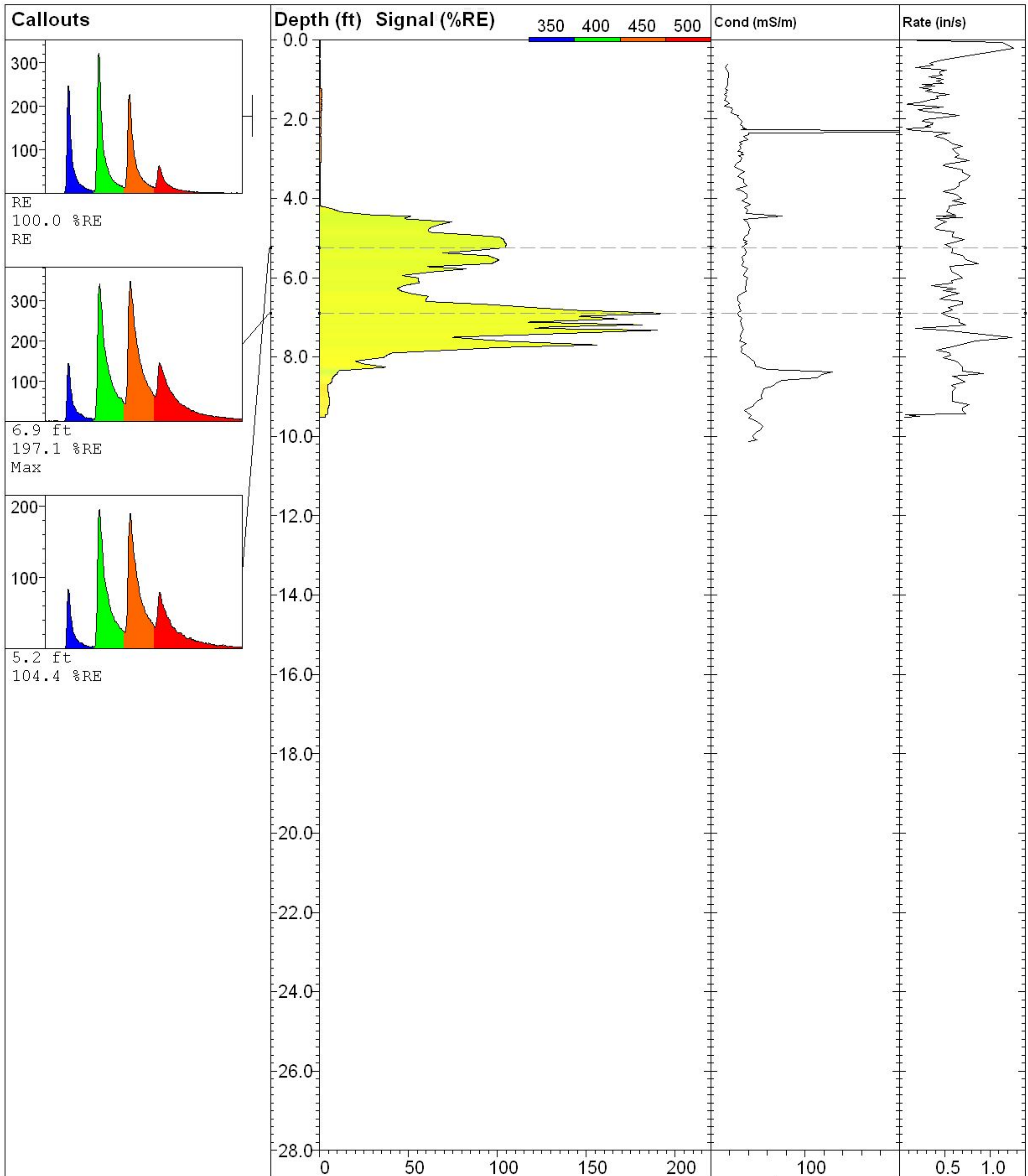
Longitude / Fix:
84.35.069 / 0D

Max signal:
209.8 % @ 5.28 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-07 16:30 EDT



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LIF-A5.2-NS135

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.265 / ?

Final depth:
9.52 ft

Client:
Arcadis

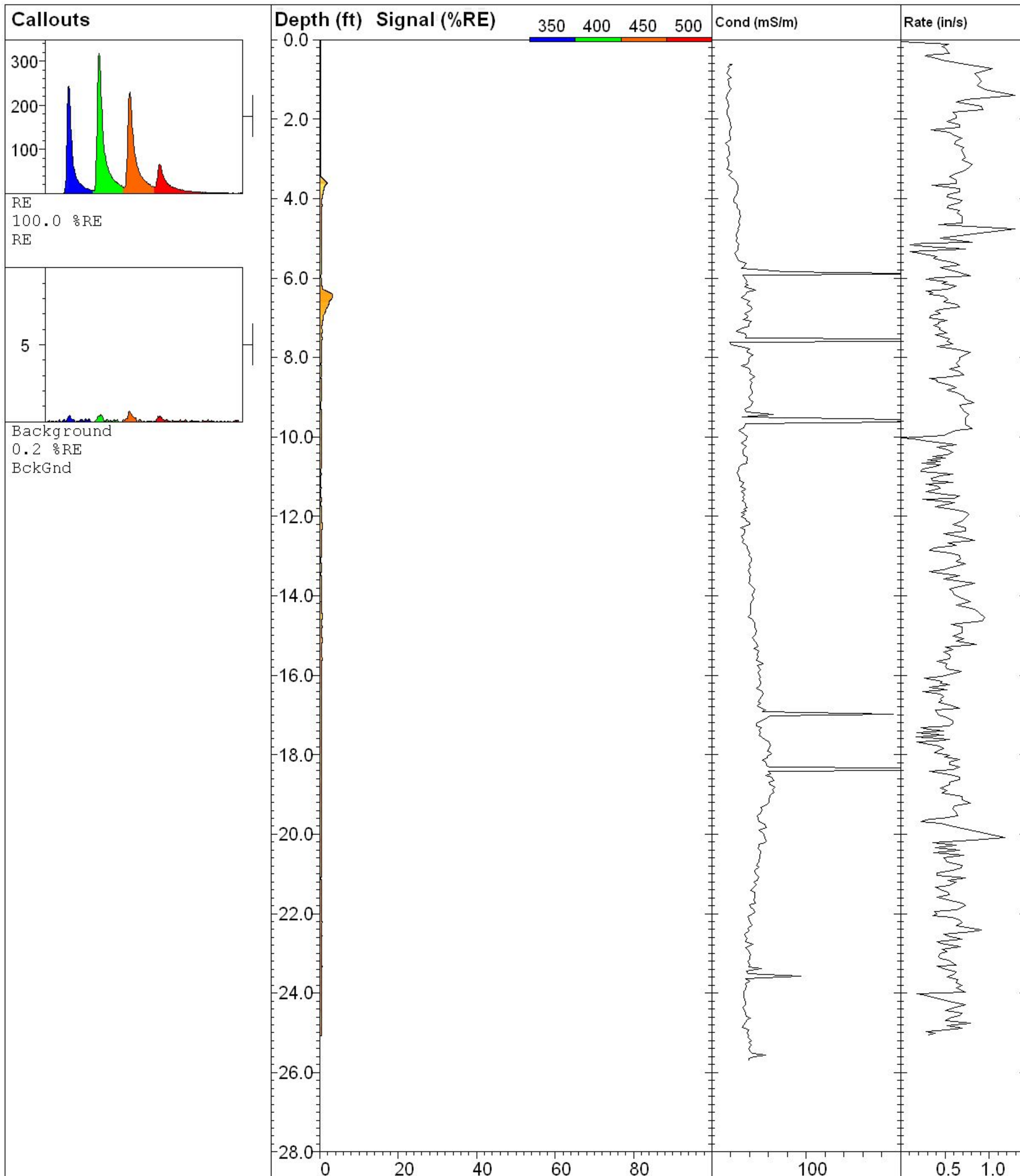
Longitude / Fix:
84.35.061 / 0D

Max signal:
197.1 % @ 6.90 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-10 13:51 EDT



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LIF-A5.2-NS138

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.267 / ?

Final depth:
25.07 ft

Client:
Arcadis

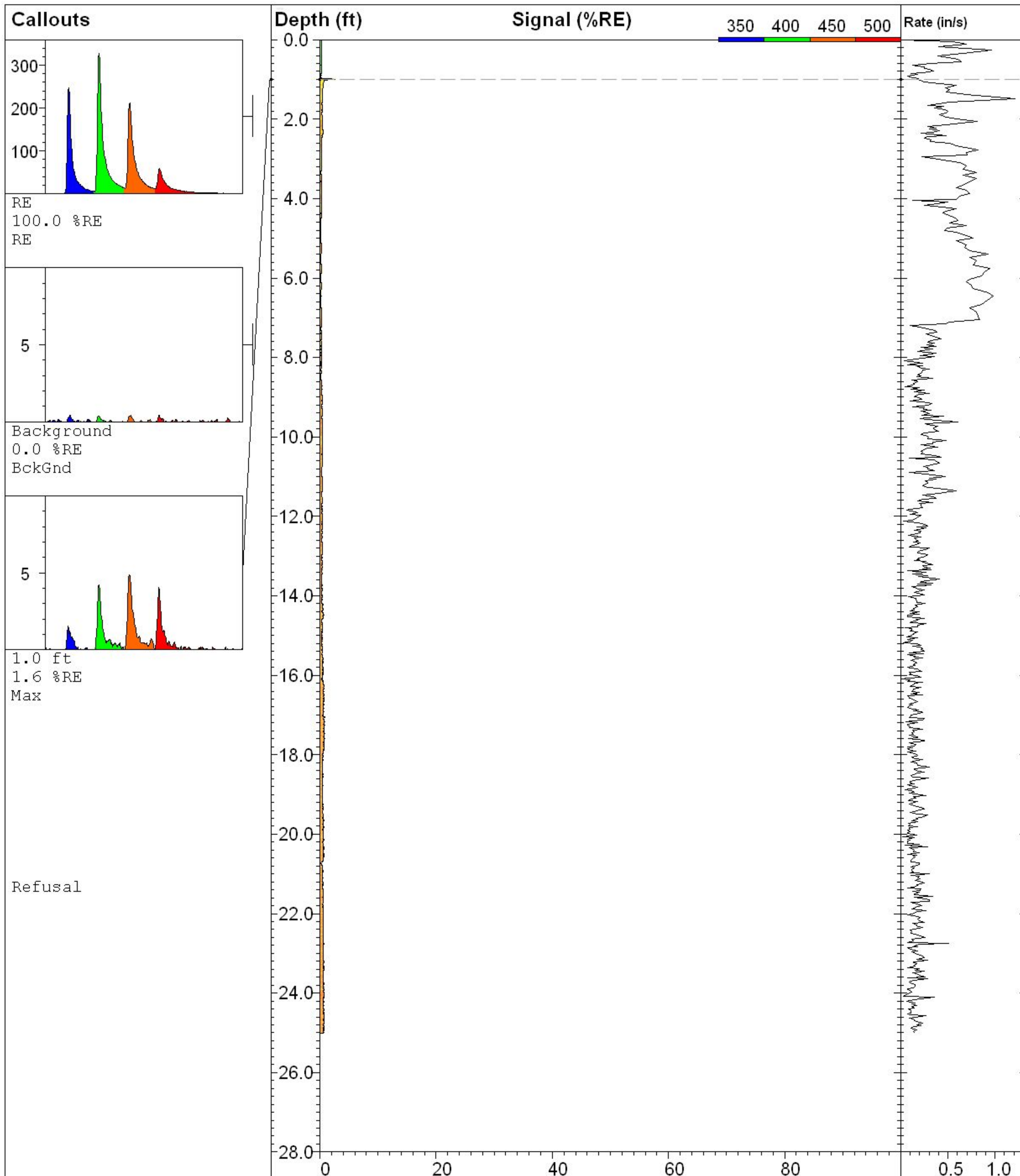
Longitude / Fix:
84.35.055 / 0D

Max signal:
3.3 % @ 6.41 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-10 16:31 EDT



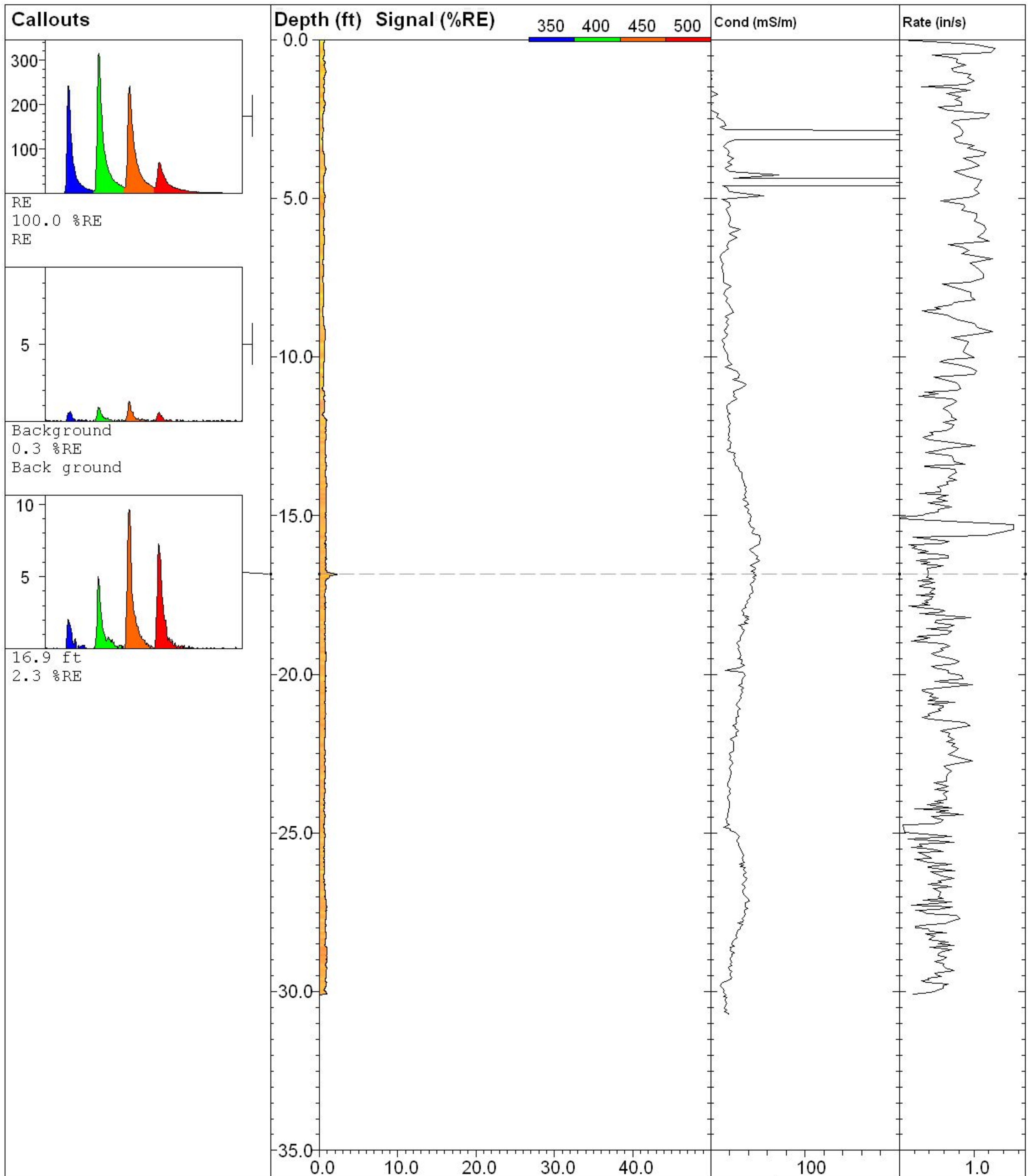
PO Box 186 - Ida, MI 48140
www.StockDrilling.com

LIF-A5.2-NS92

UVOST By Dakota

www.DakotaTechnologies.com

Site: Plant - 2	Latitude / Datum: 42.44.267 / ?	Final depth: 25.01 ft
Client: Arcadis	Longitude / Fix: 84.35.160 / 0D	Max signal: 2.7 % @ 1.00 ft
Job:	Operator/Unit: Jonathan/UVOST1021	Date & Time: 2012-06-04 13:36 EDT



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LIF-A5.2-NT138

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.261 / ?

Final depth:
30.09 ft

Client:
Arcadis

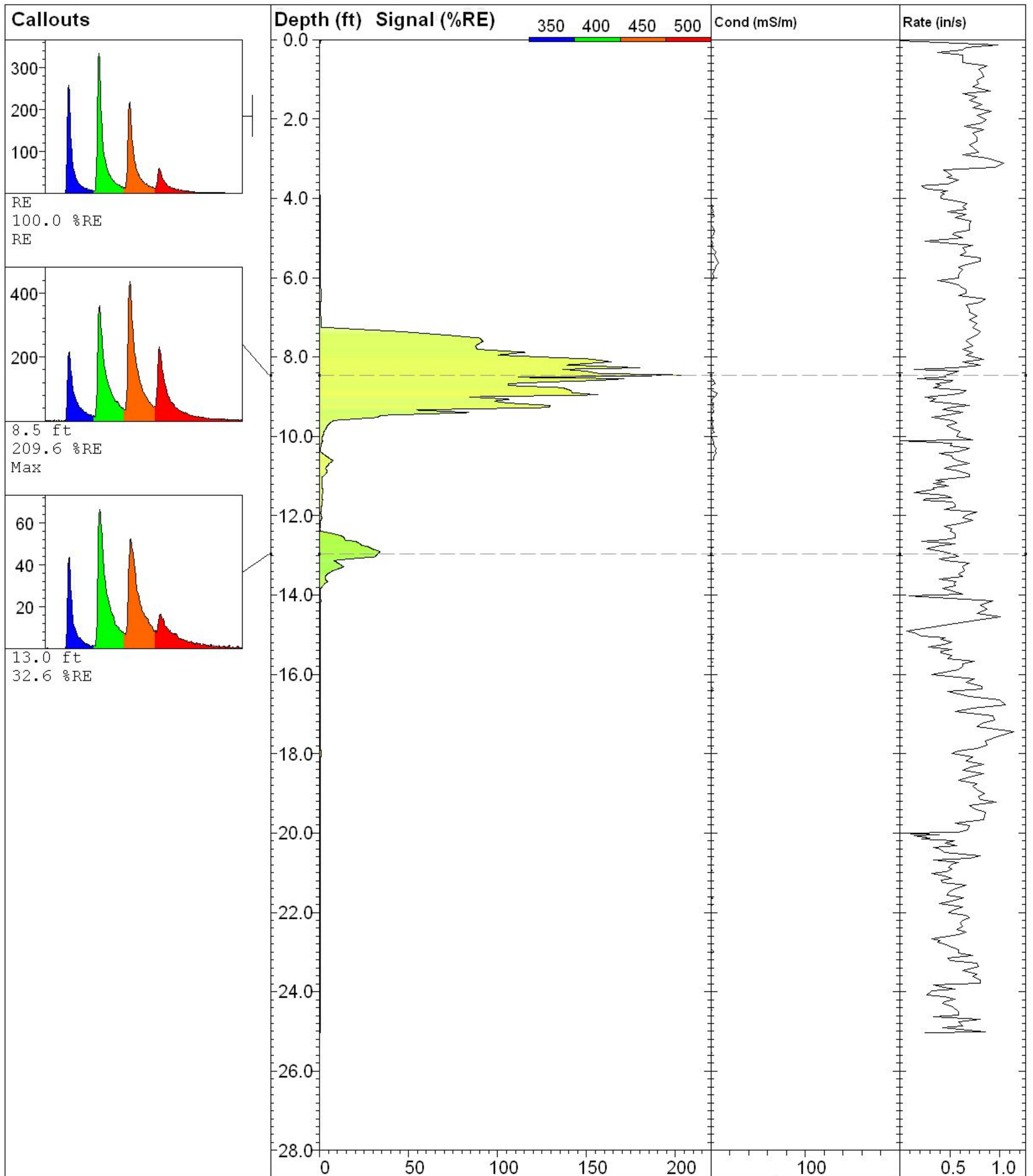
Longitude / Fix:
84.35.057 / 0D

Max signal:
2.3 % @ 16.85 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-07 11:18 EDT



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LIF-A5.2-NU107

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.261 / ?

Final depth:
25.04 ft

Client:
Arcadis

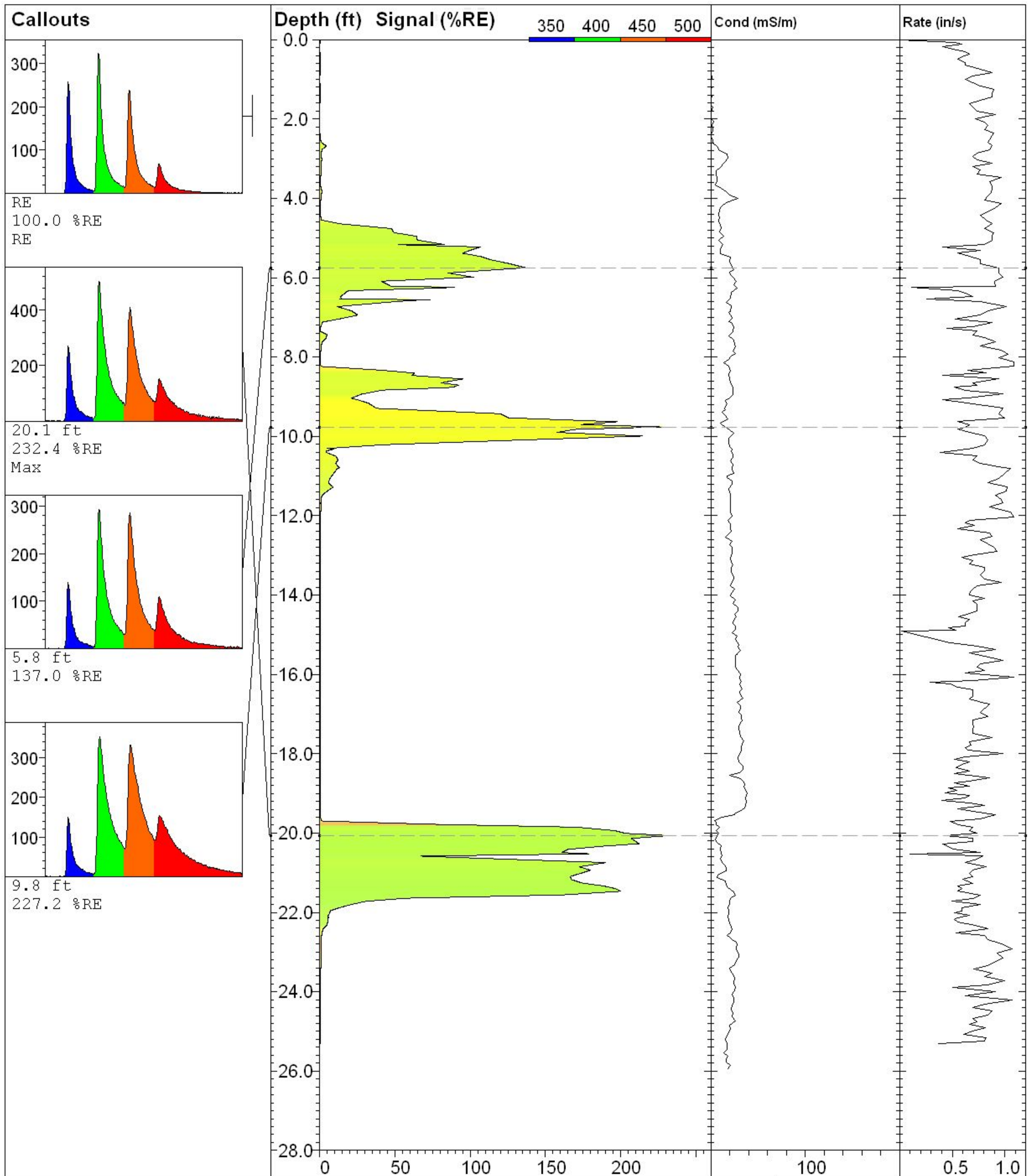
Longitude / Fix:
84.35.122 / 0D

Max signal:
209.6 % @ 8.46 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-16 09:53 EDT



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www.StockDrilling.com

LIF-A5.2-NV120

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.260 / ?

Final depth:
25.31 ft

Client:
Arcadis

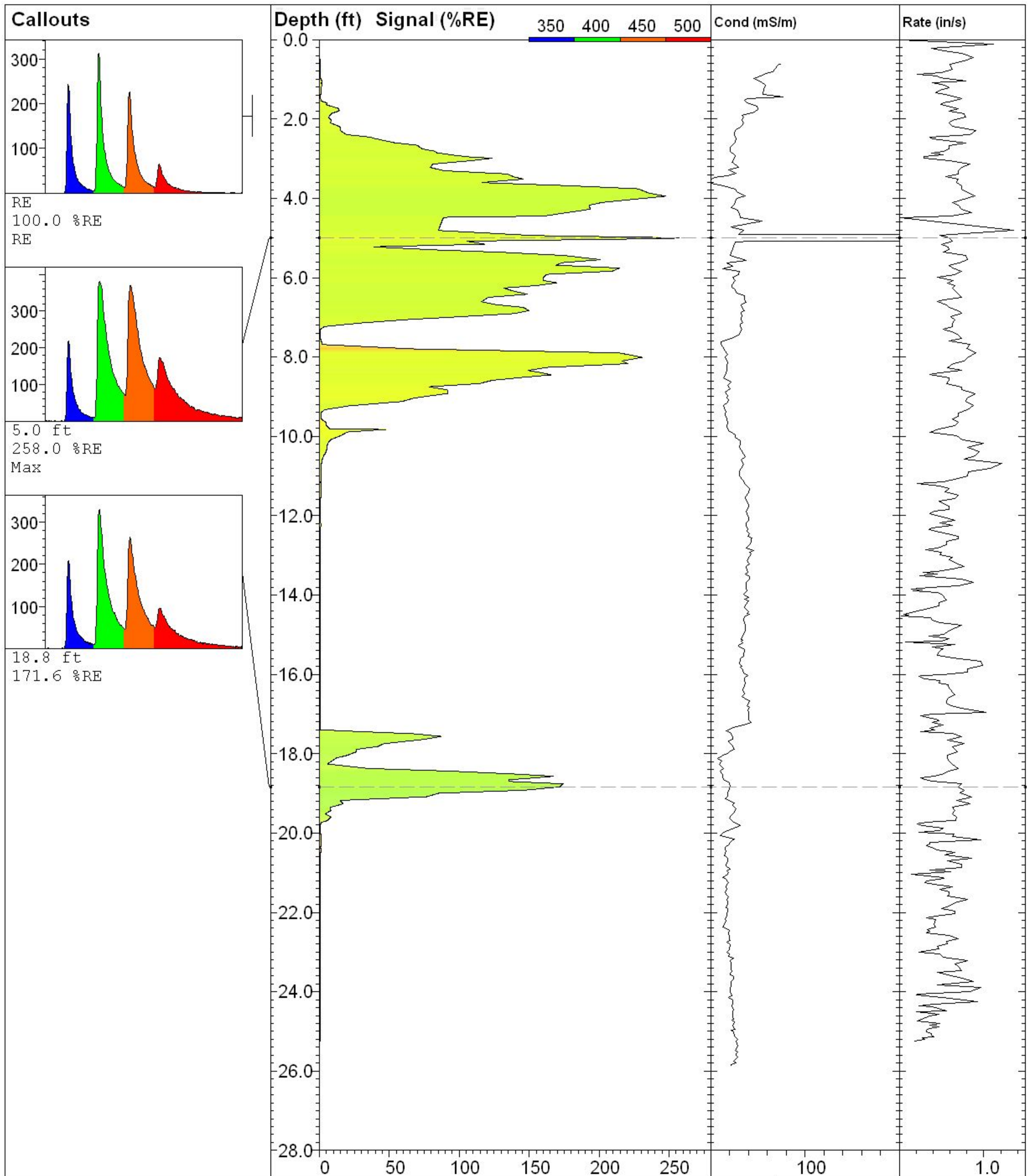
Longitude / Fix:
84.35.093 / 0D

Max signal:
232.4 % @ 20.07 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-08 11:26 EDT



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LIF-A5.2-NV123

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.260 / ?

Final depth:
25.24 ft

Client:
Arcadis

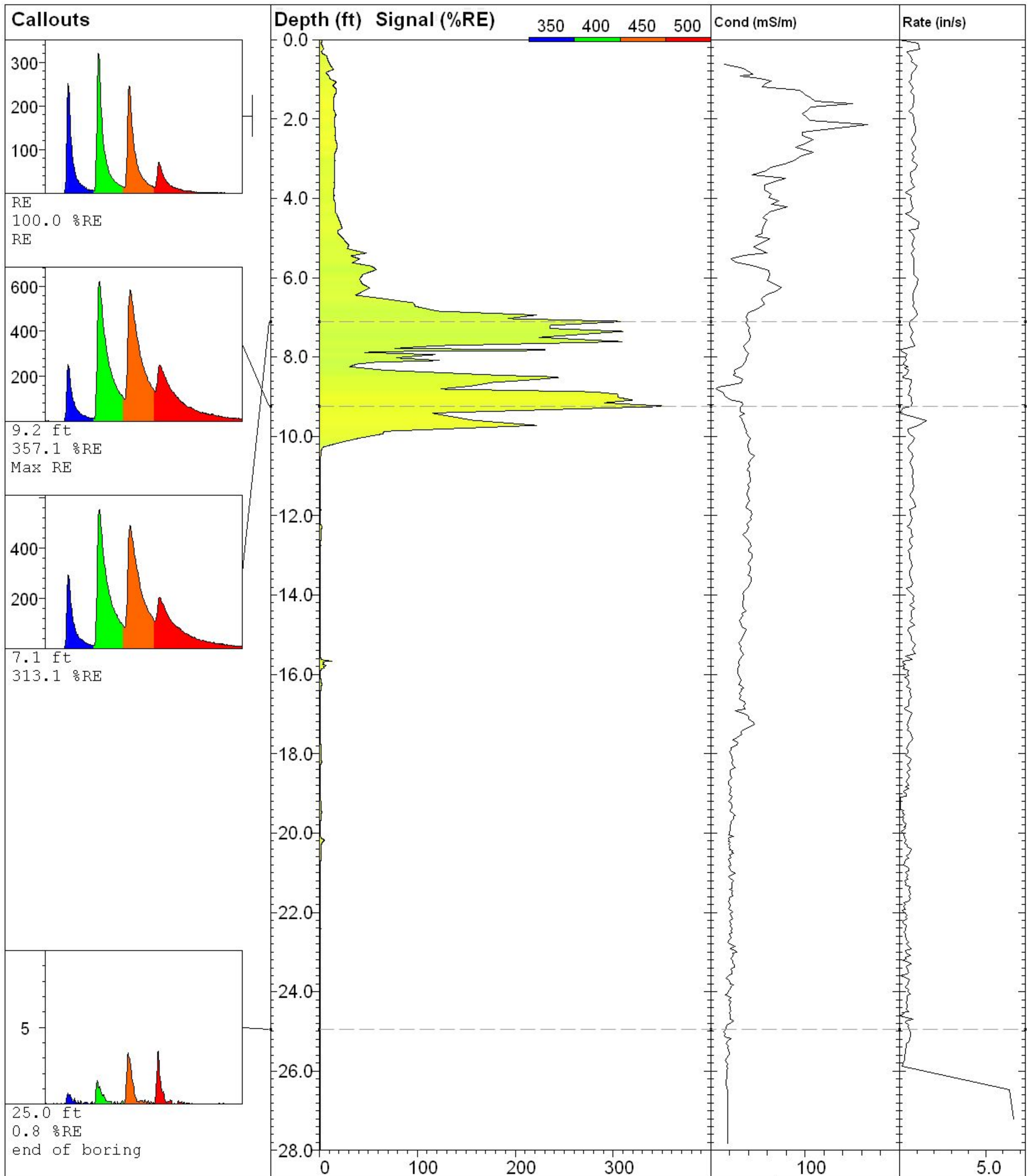
Longitude / Fix:
84.35.088 / 0D

Max signal:
258.0 % @ 5.00 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-08 10:44 EDT



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LIF-A5.2-NV126

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.261 / ?

Final depth:
29.13 ft

Client:
Arcadis

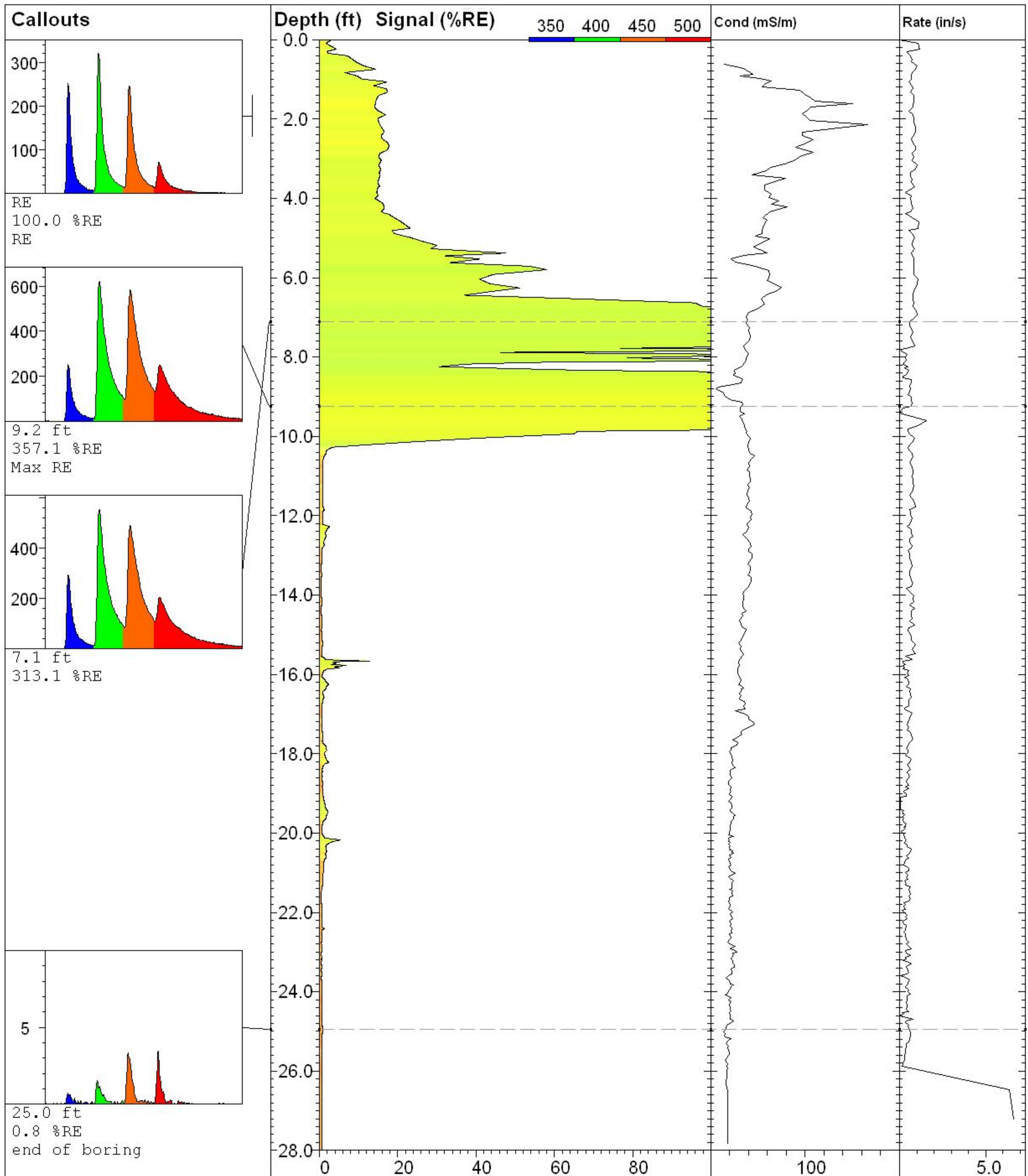
Longitude / Fix:
84.35.082 / 0D

Max signal:
357.1 % @ 9.24 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-07 15:04 EDT



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LIF-A5.2-NV126

UVOST By Dakota

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Site:
Plant - 2

Latitude / Datum:
42.44.261 / ?

Final depth:
29.13 ft

Client:
Arcadis

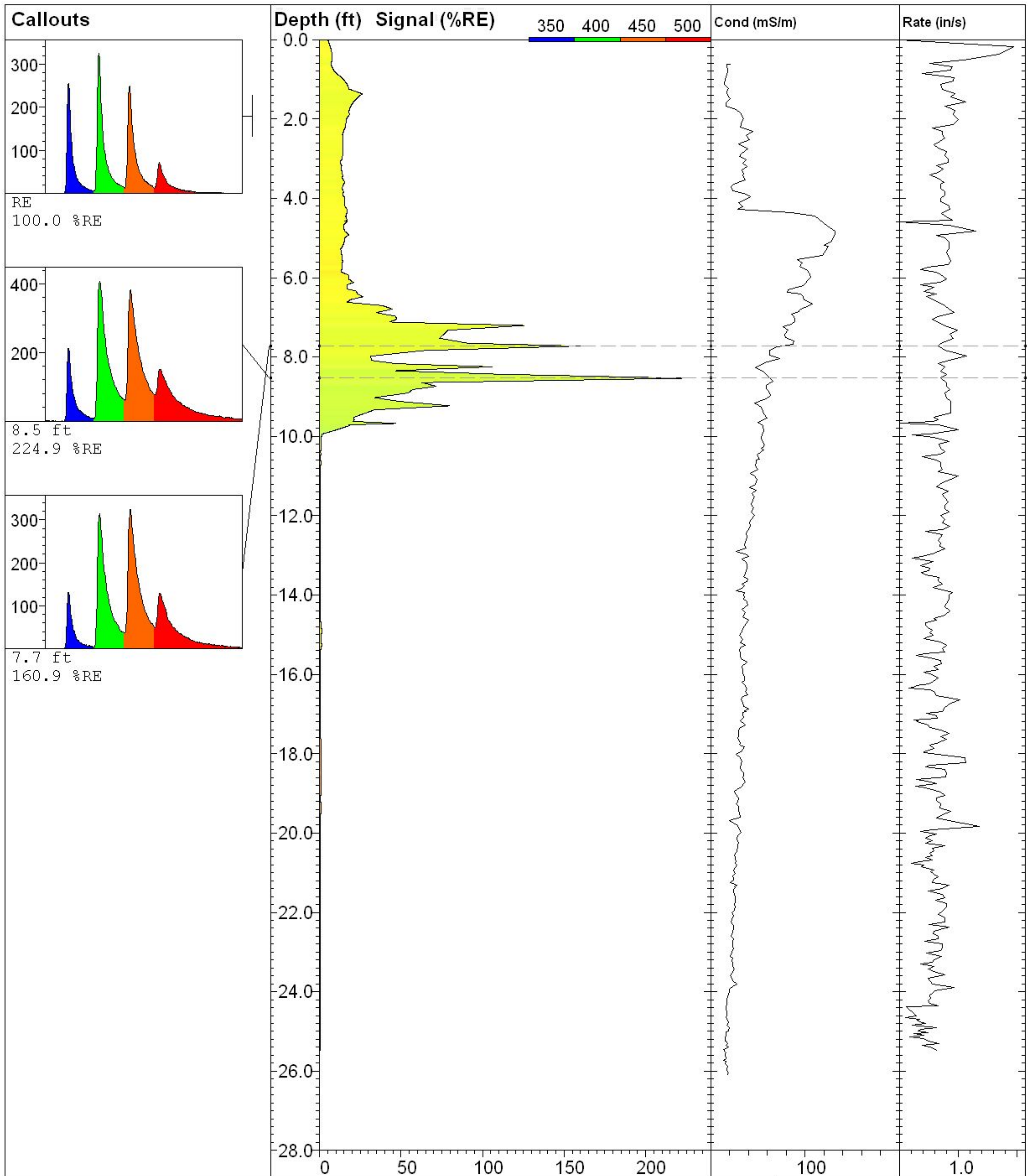
Longitude / Fix:
84.35.082 / 0D

Max signal:
357.1 % @ 9.24 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-07 15:04 EDT



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LIF-A5.2-NV129

UVOST By Dakota

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Site:
Plant - 2

Latitude / Datum:
42.44.259 / ?

Final depth:
25.47 ft

Client:
Arcadis

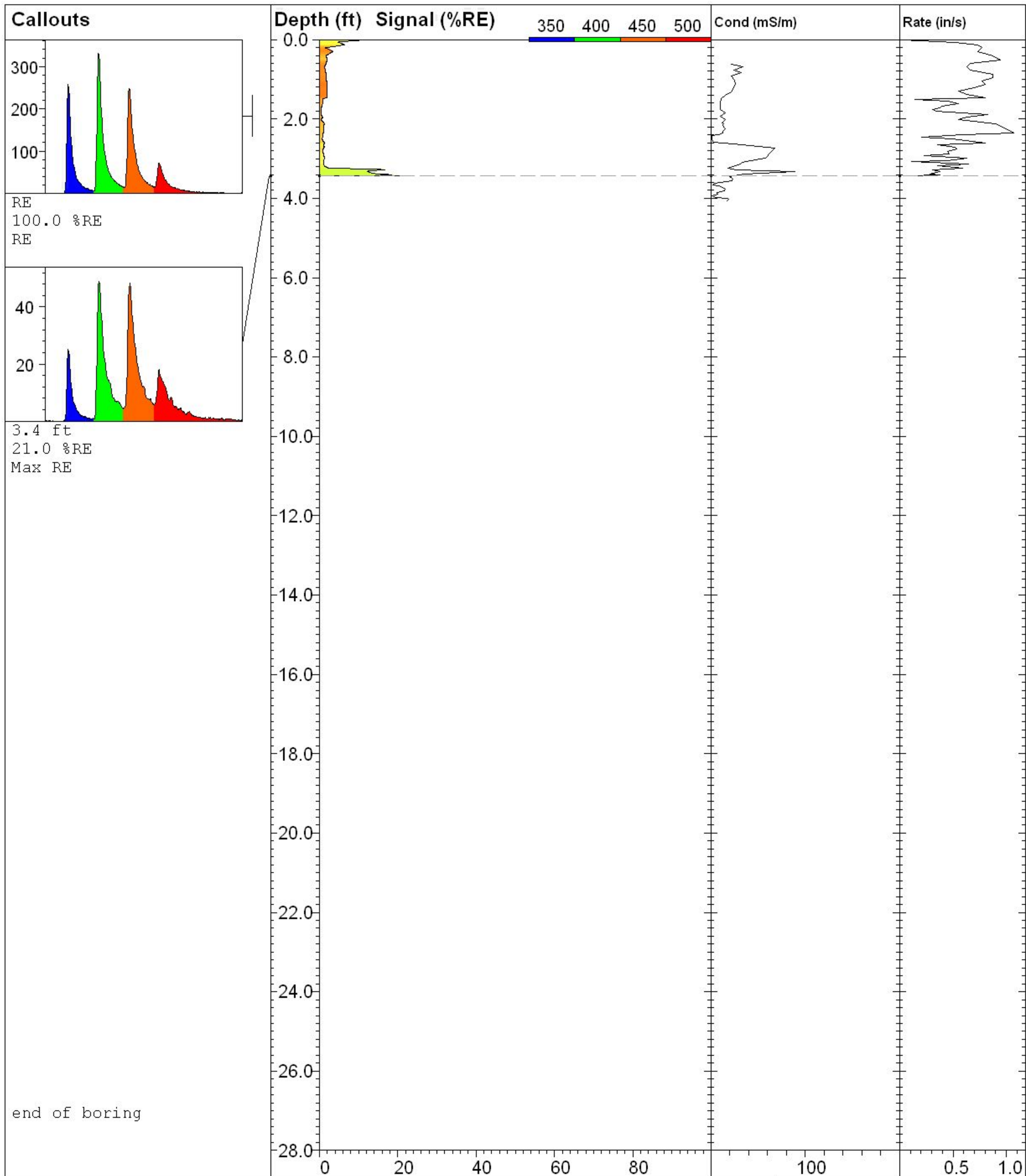
Longitude / Fix:
84.35.074 / 0D

Max signal:
224.9 % @ 8.54 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-07 13:07 EDT



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LIF-A5.2-NV132

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.261 / ?

Final depth:
3.43 ft

Client:
Arcadis

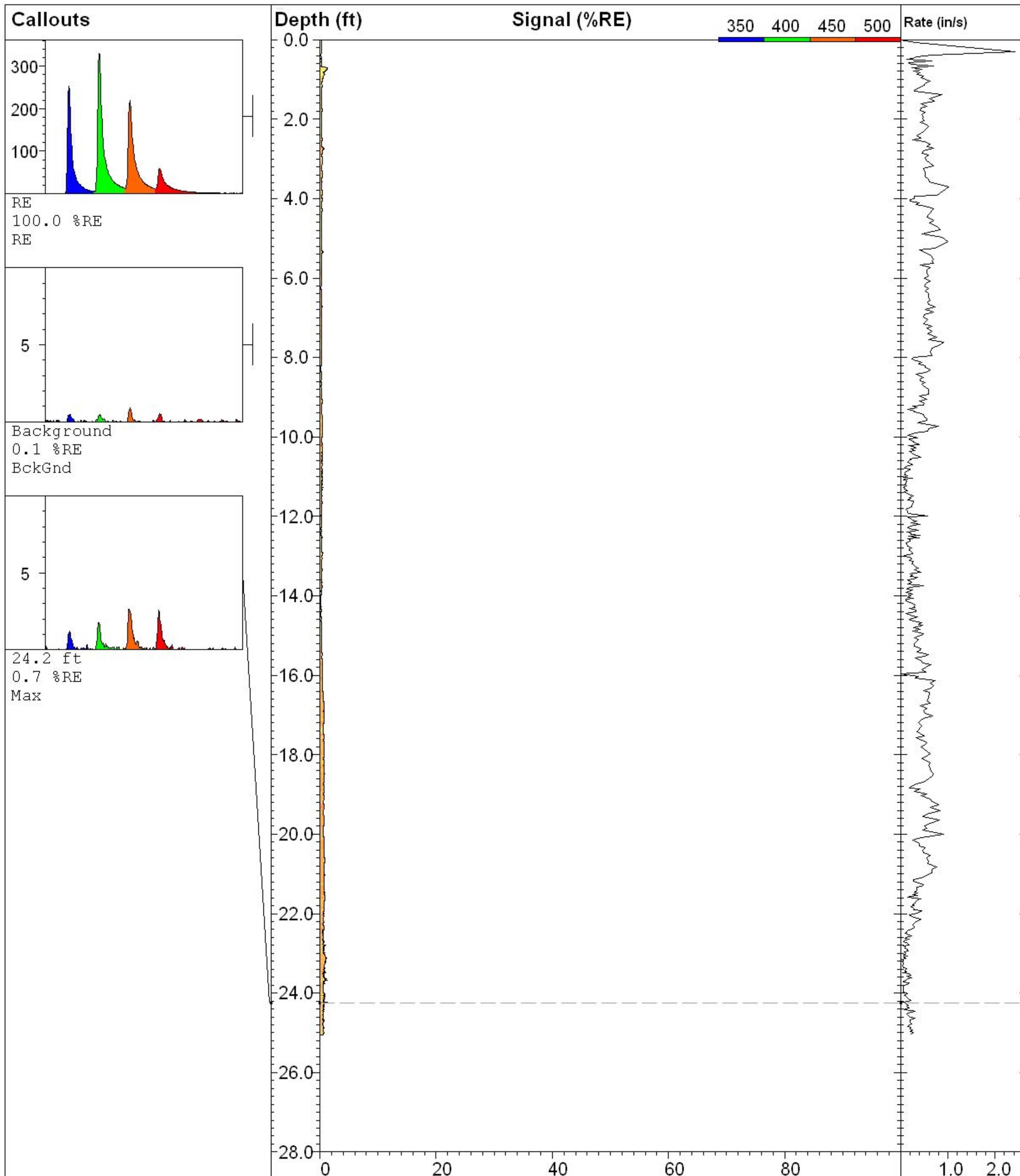
Longitude / Fix:
84.35.071 / 0D

Max signal:
21.0 % @ 3.43 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-07 16:16 EDT



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LIF-A5.2-NV98

UVOST By Dakota

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Site:
Plant - 2

Latitude / Datum:
42.44.261 / ?

Final depth:
25.06 ft

Client:
Arcadis

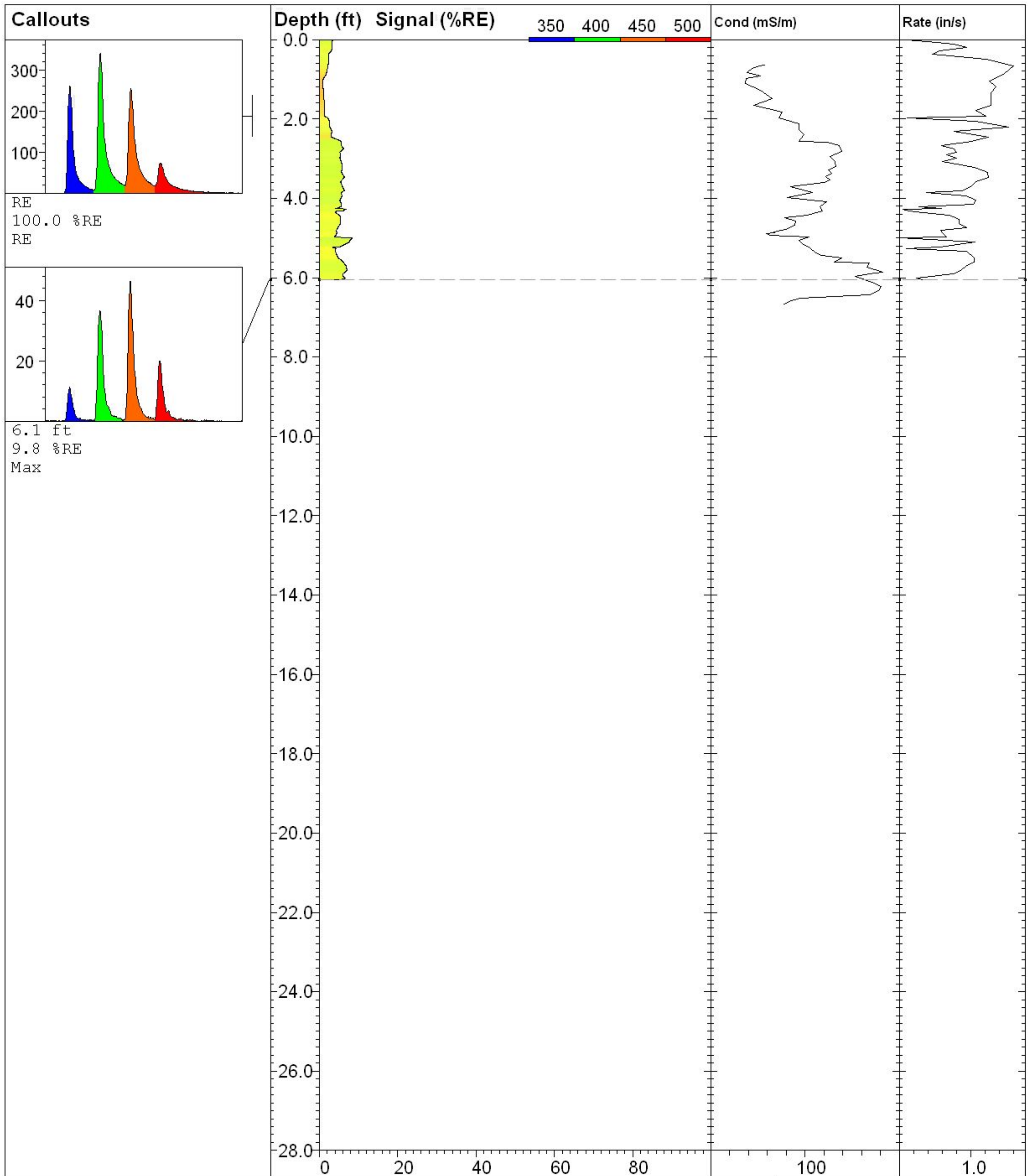
Longitude / Fix:
84.35.144 / 0D

Max signal:
1.4 % @ 24.23 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-06-04 15:23 EDT



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LIF-A5.2-NY114

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.256 / ?

Final depth:
6.06 ft

Client:
Arcadis

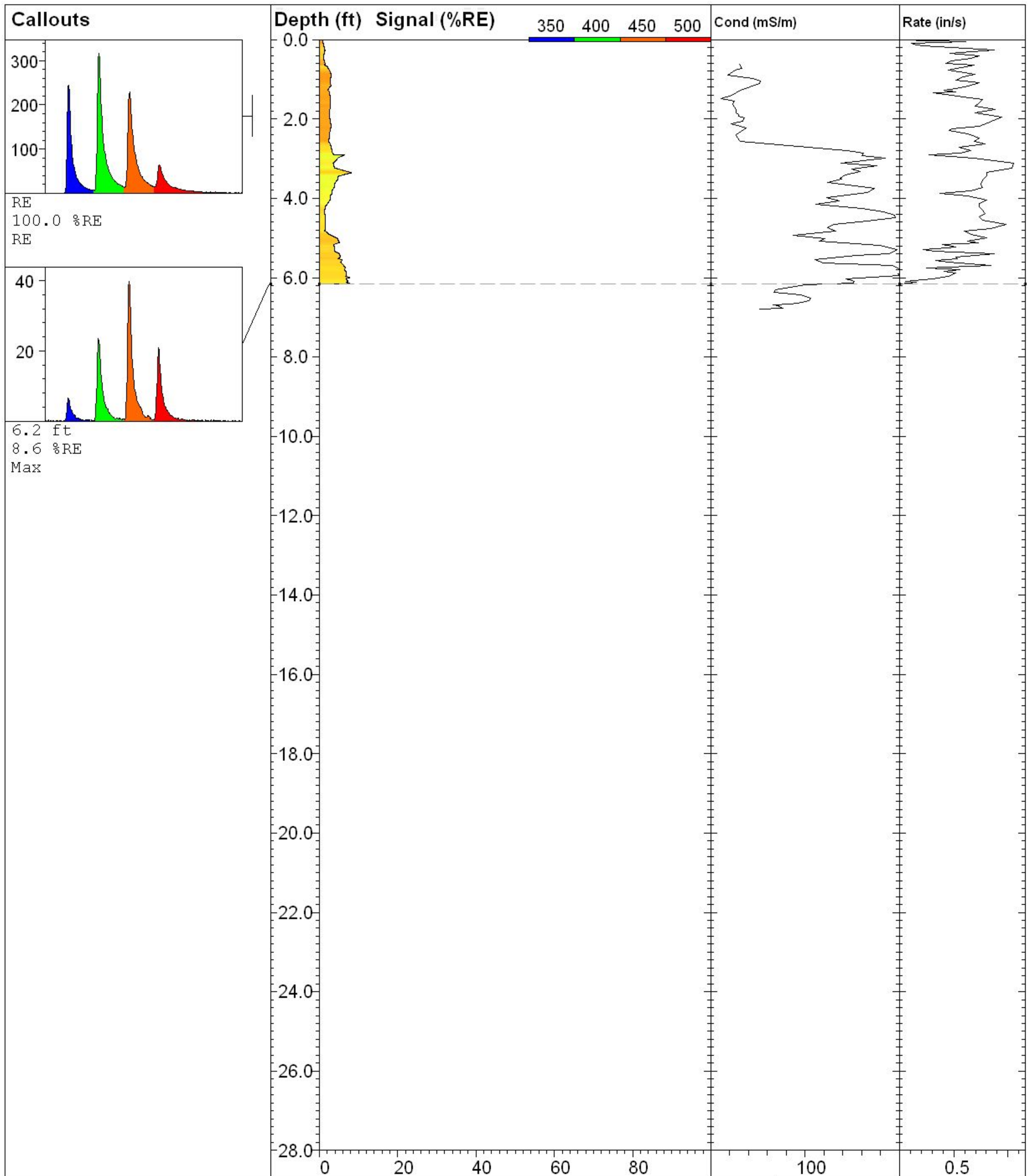
Longitude / Fix:
84.35.107 / 0D

Max signal:
9.8 % @ 6.06 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-09 13:53 EDT



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LIF-A5.2-NY117

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.256 / ?

Final depth:
6.17 ft

Client:
Arcadis

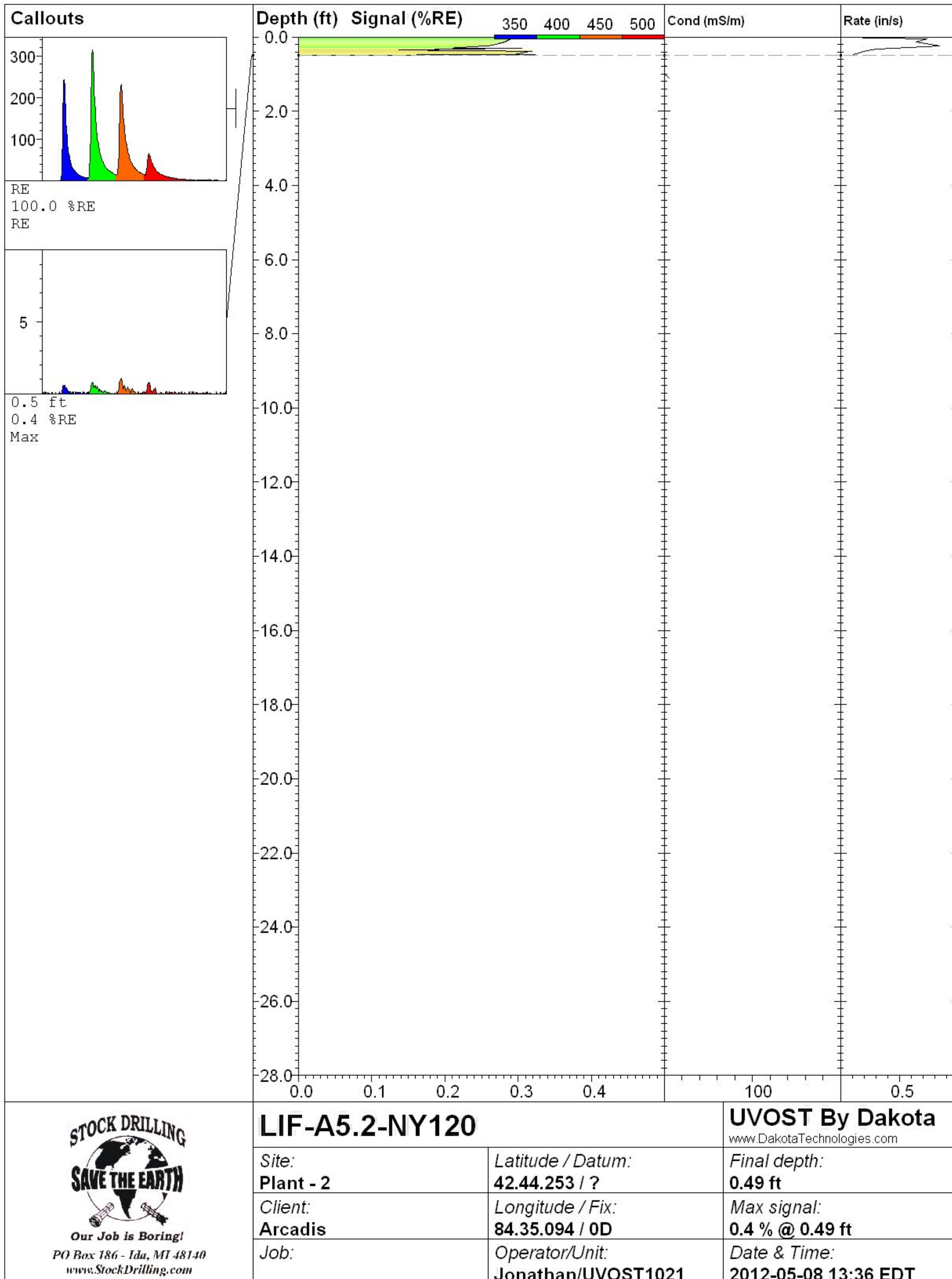
Longitude / Fix:
84.35.102 / 0D

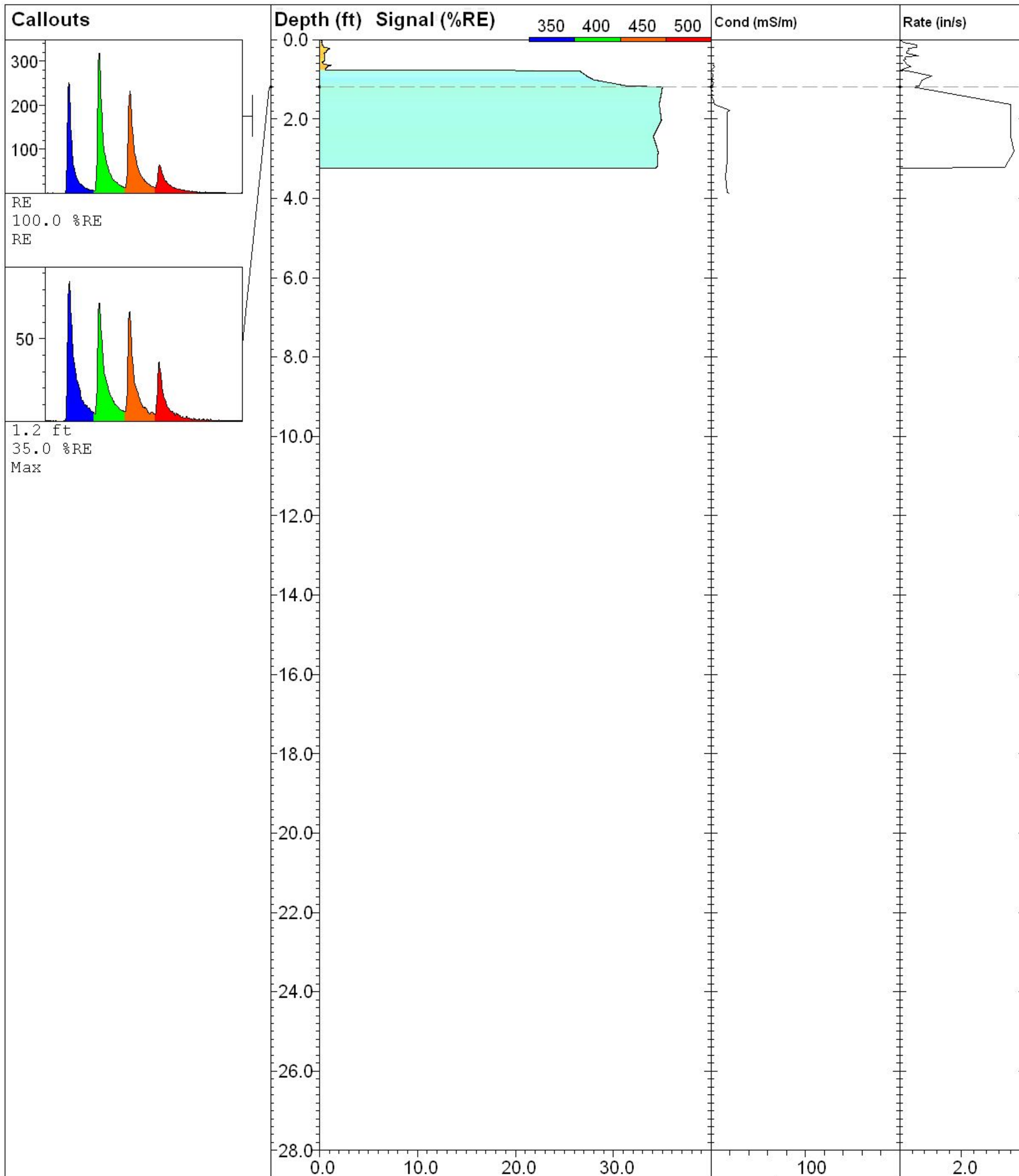
Max signal:
8.6 % @ 6.16 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-08 14:06 EDT





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LIF-A5.2-NY123

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.251 / ?

Final depth:
3.25 ft

Client:
Arcadis

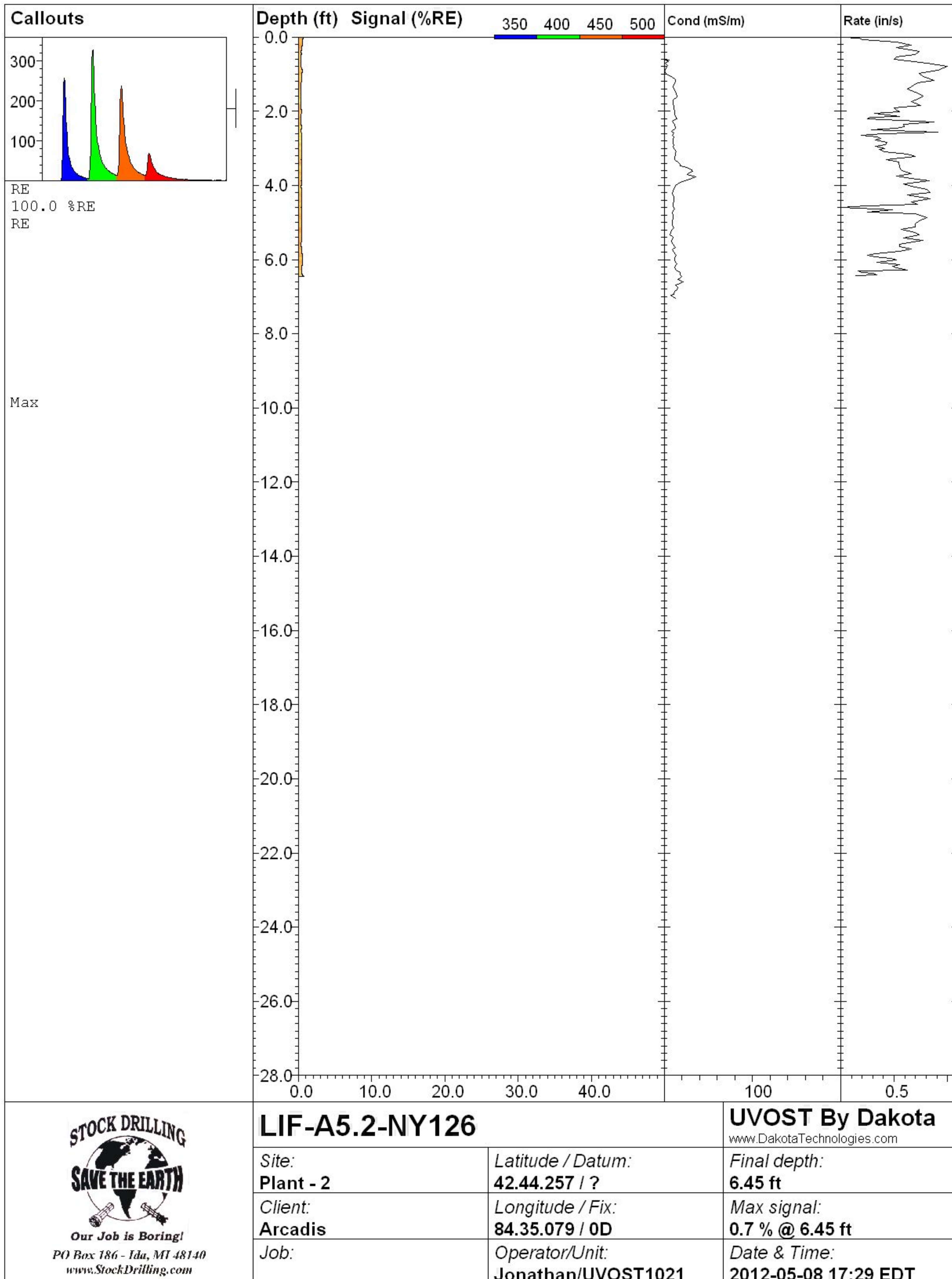
Longitude / Fix:
84.35.089 / 0D

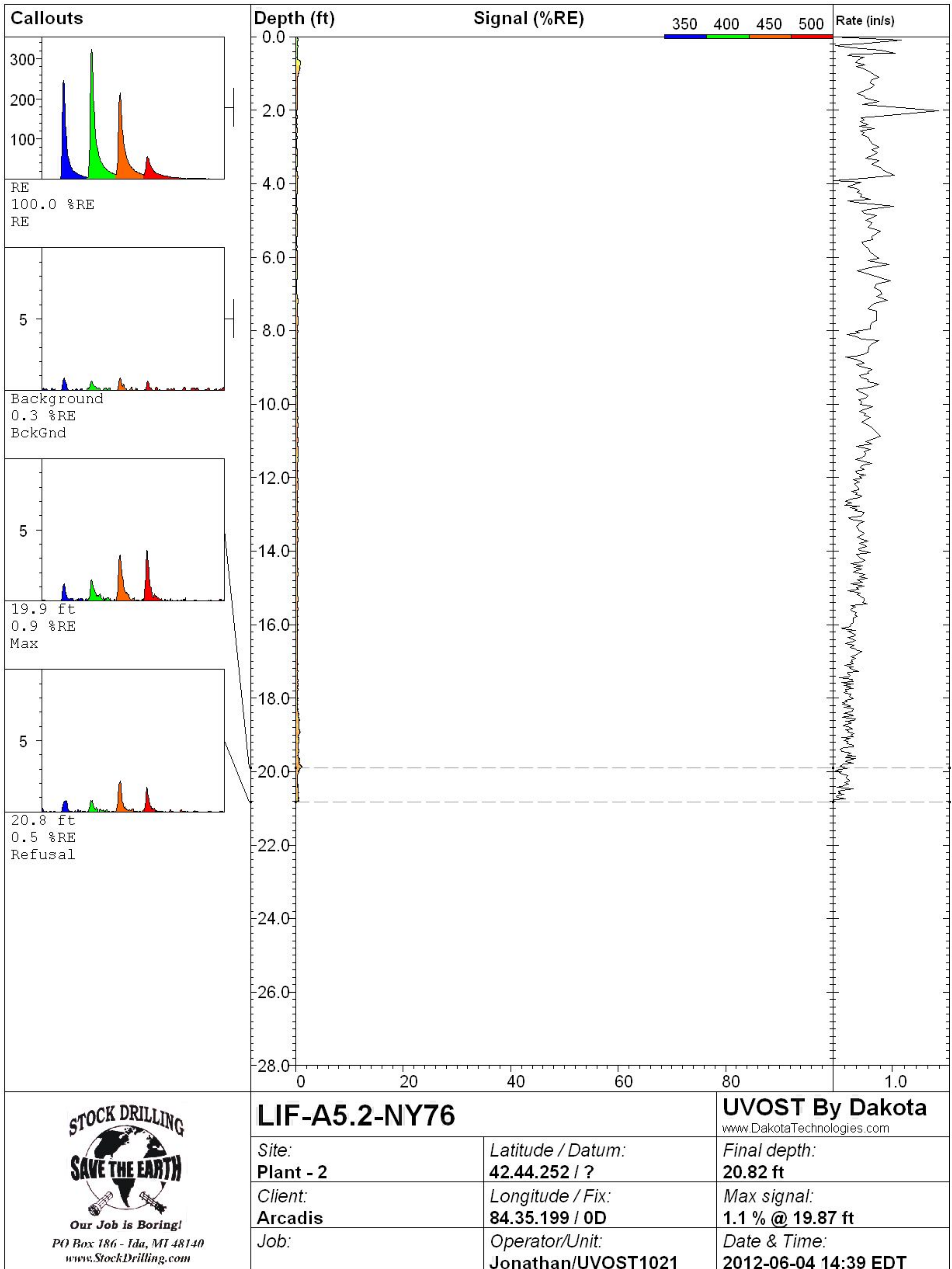
Max signal:
35.0 % @ 1.20 ft

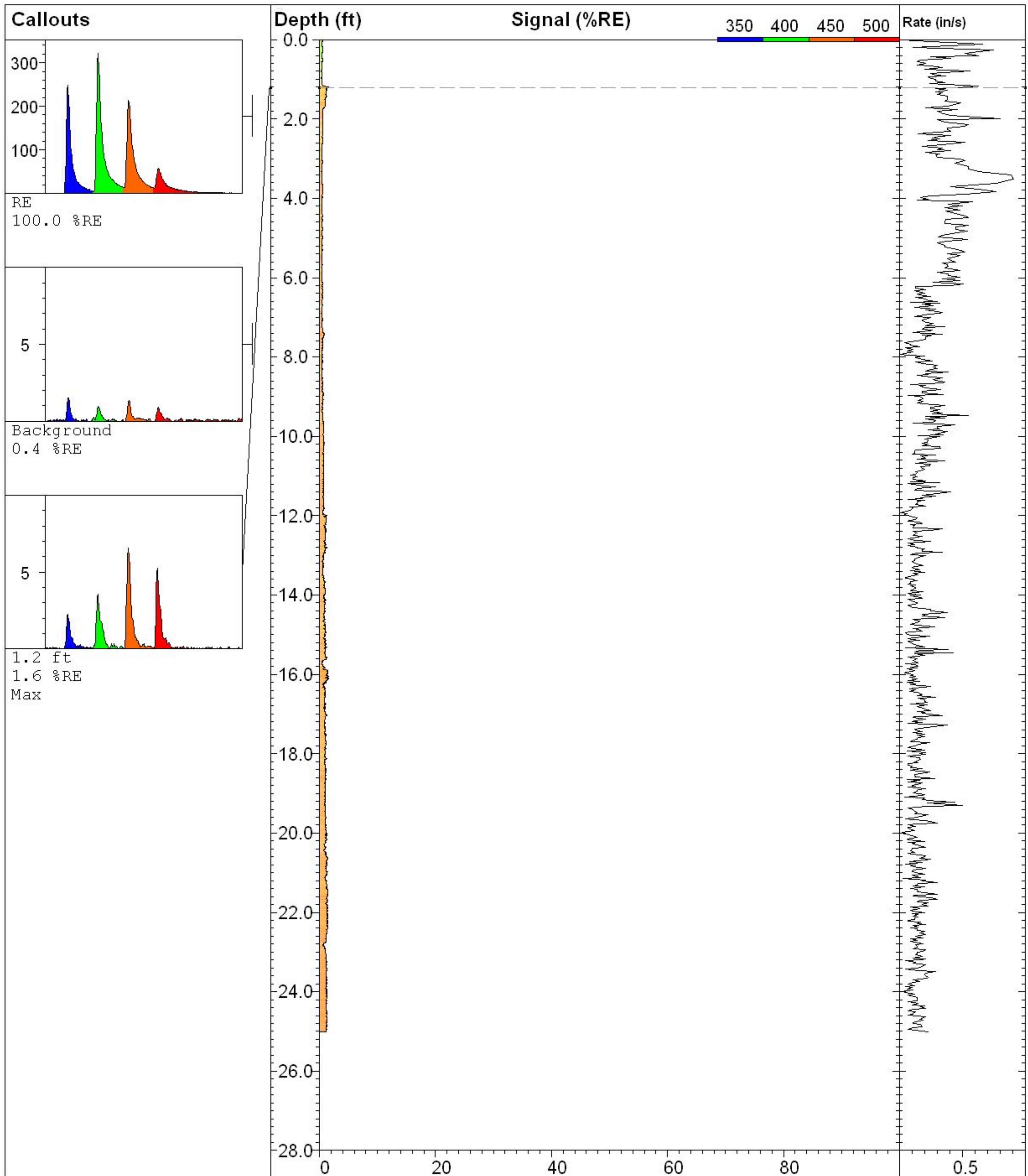
Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-08 17:04 EDT







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www.StockDrilling.com

LIF-A5.2-NY86

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.253 / ?

Final depth:
25.02 ft

Client:
Arcadis

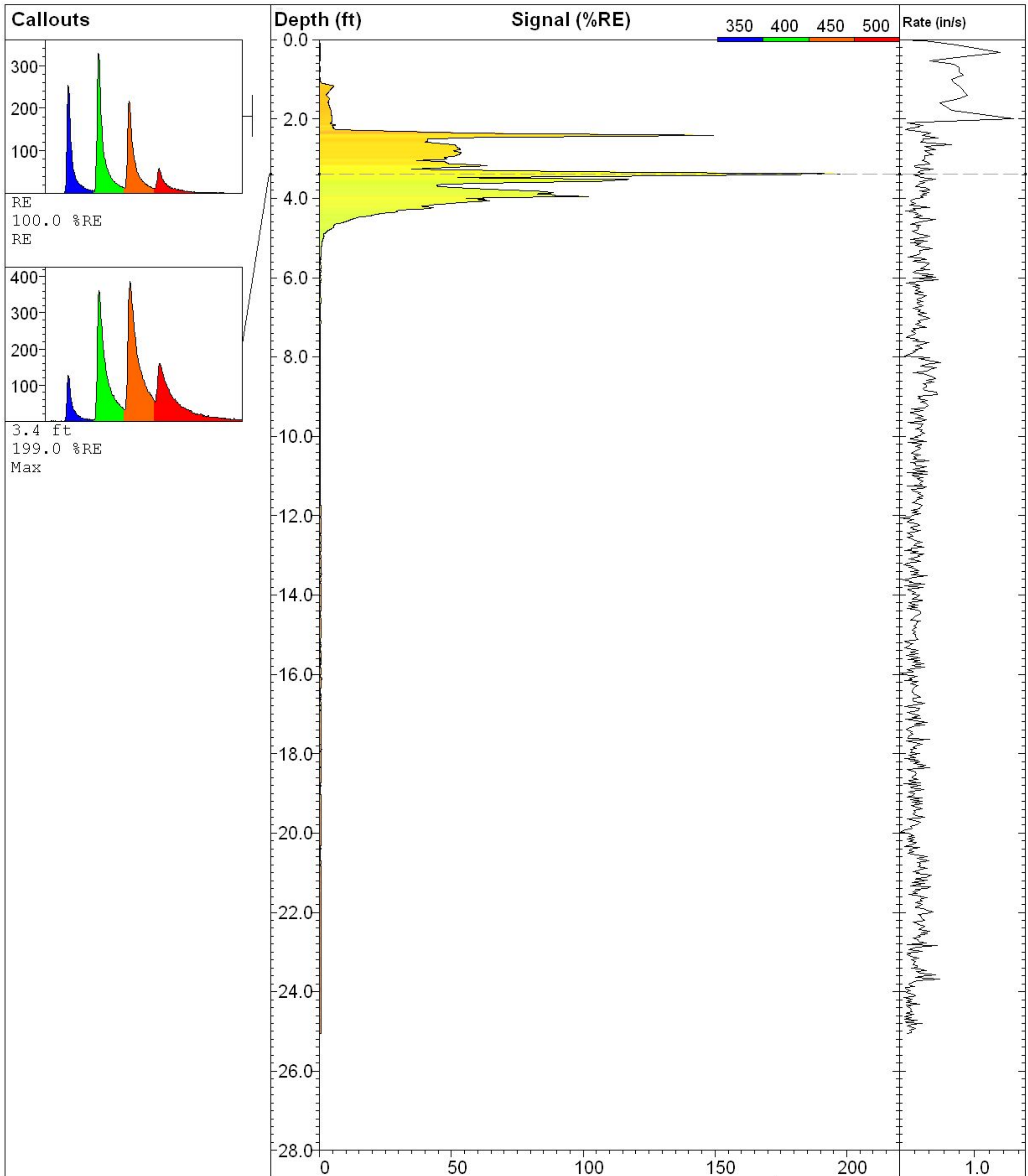
Longitude / Fix:
84.35.158 / 0D

Max signal:
1.6 % @ 1.20 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-06-05 08:54 EDT



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LIF-A5.2-NY92

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.253 / ?

Final depth:
25.06 ft

Client:
Arcadis

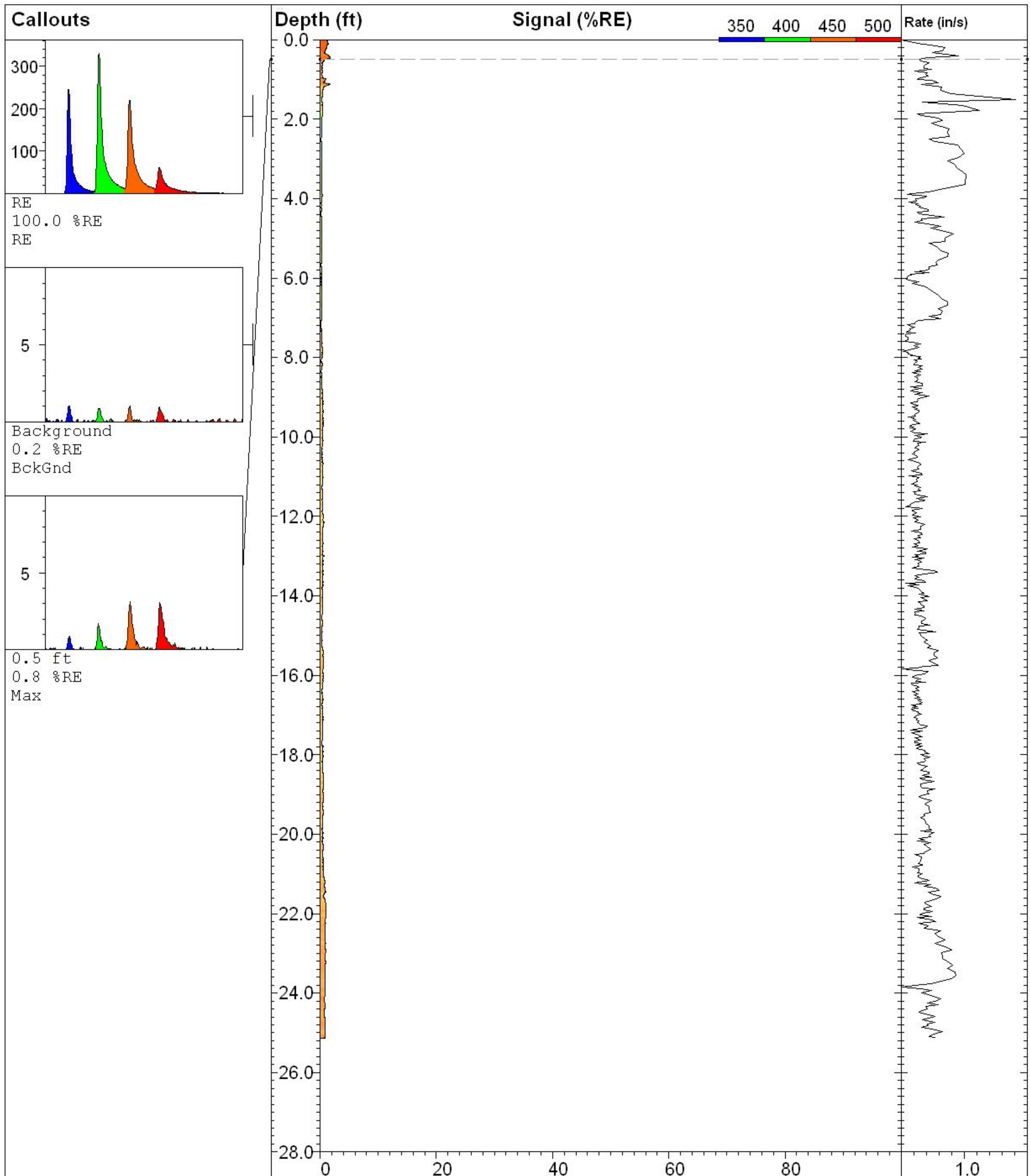
Longitude / Fix:
84.35.159 / 0D

Max signal:
199.0 % @ 3.38 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-06-04 11:34 EDT



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LIF-A5.2-OB100

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.245 / ?

Final depth:
25.13 ft

Client:
Arcadis

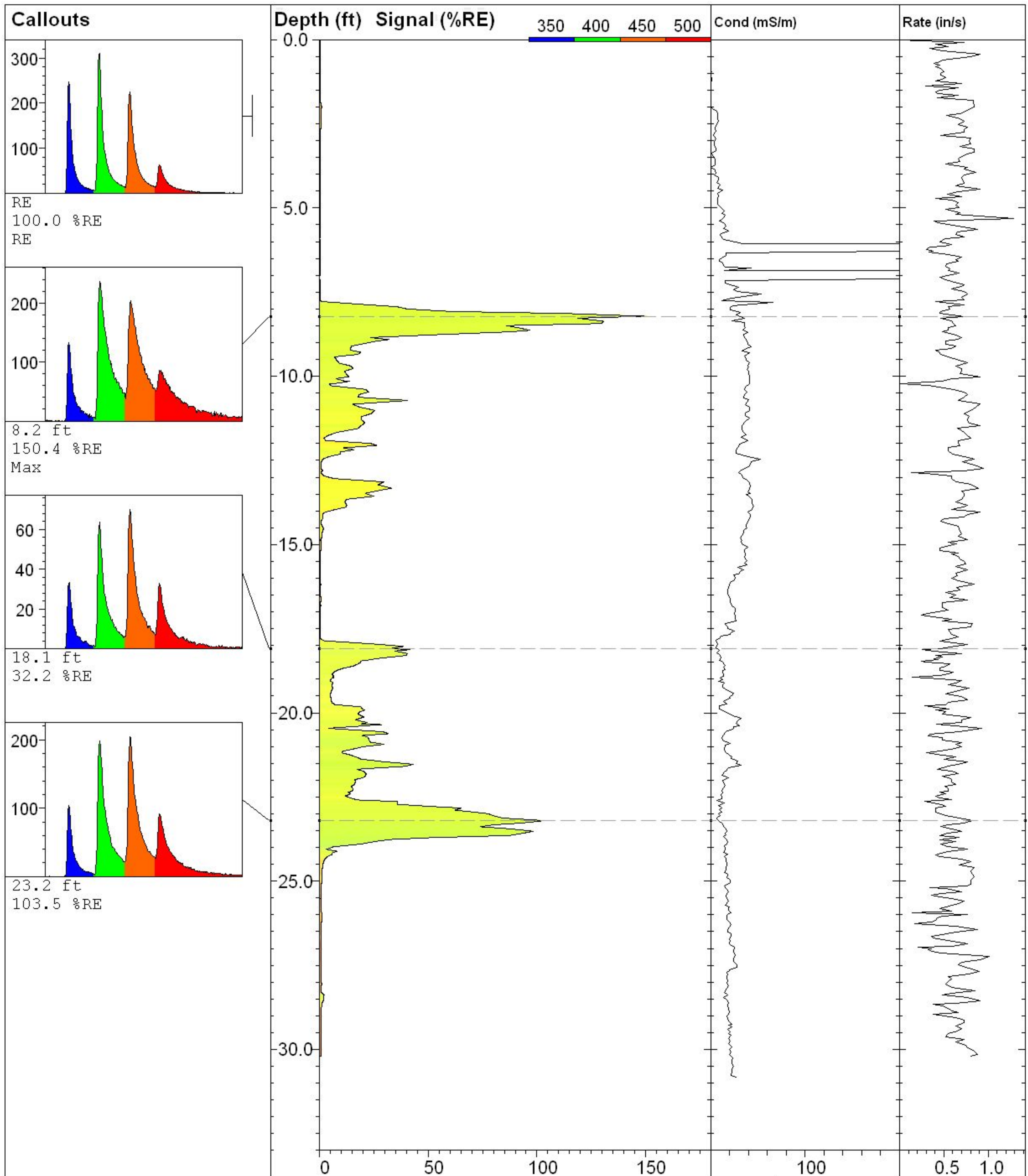
Longitude / Fix:
84.35.138 / 0D

Max signal:
1.8 % @ 0.46 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-06-04 17:23 EDT



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LIF-A5.2-OB120

UVOST By Dakota

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Site:
Plant - 2

Latitude / Datum:
42.44.249 / ?

Final depth:
30.20 ft

Client:
Arcadis

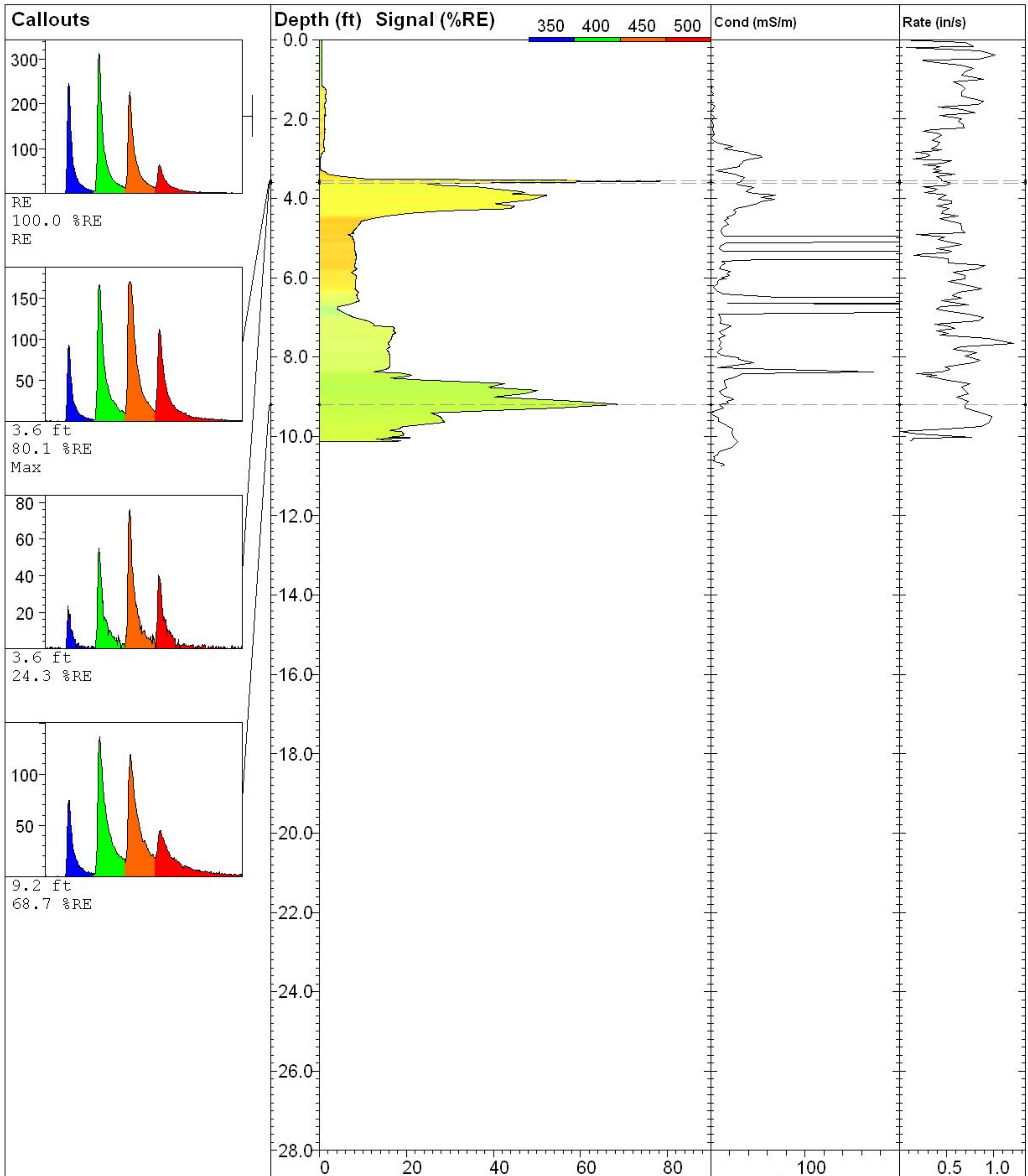
Longitude / Fix:
84.35.094 / 0D

Max signal:
150.4 % @ 8.22 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-08 15:49 EDT



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LIF-A5.2-OB123

UVOST By Dakota

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Site:
Plant - 2

Latitude / Datum:
42.44.250 / ?

Final depth:
10.13 ft

Client:
Arcadis

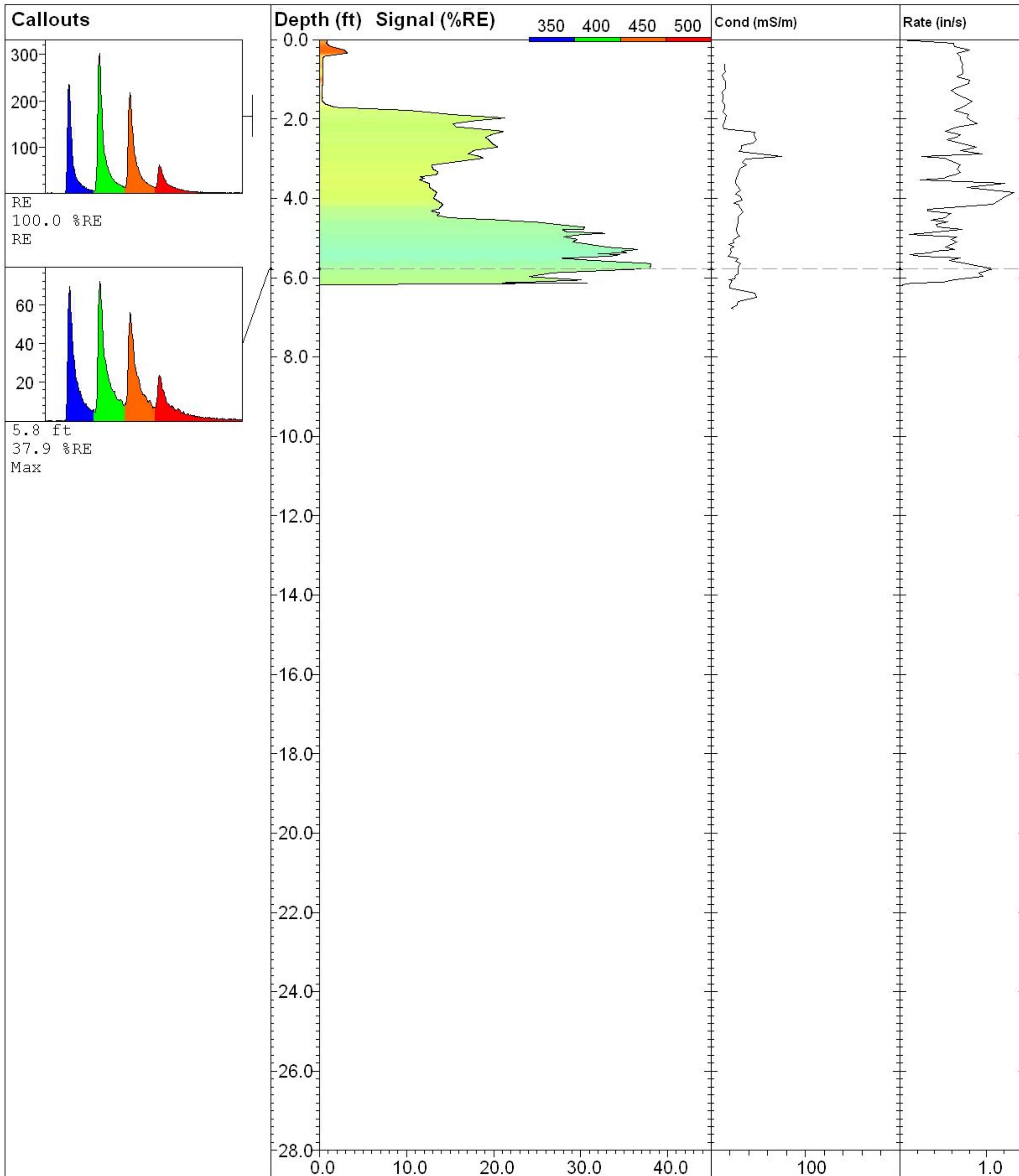
Longitude / Fix:
84.35.091 / 0D

Max signal:
80.1 % @ 3.57 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-08 16:43 EDT



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LIF-A5.2-OB129

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.251 / ?

Final depth:
6.17 ft

Client:
Arcadis

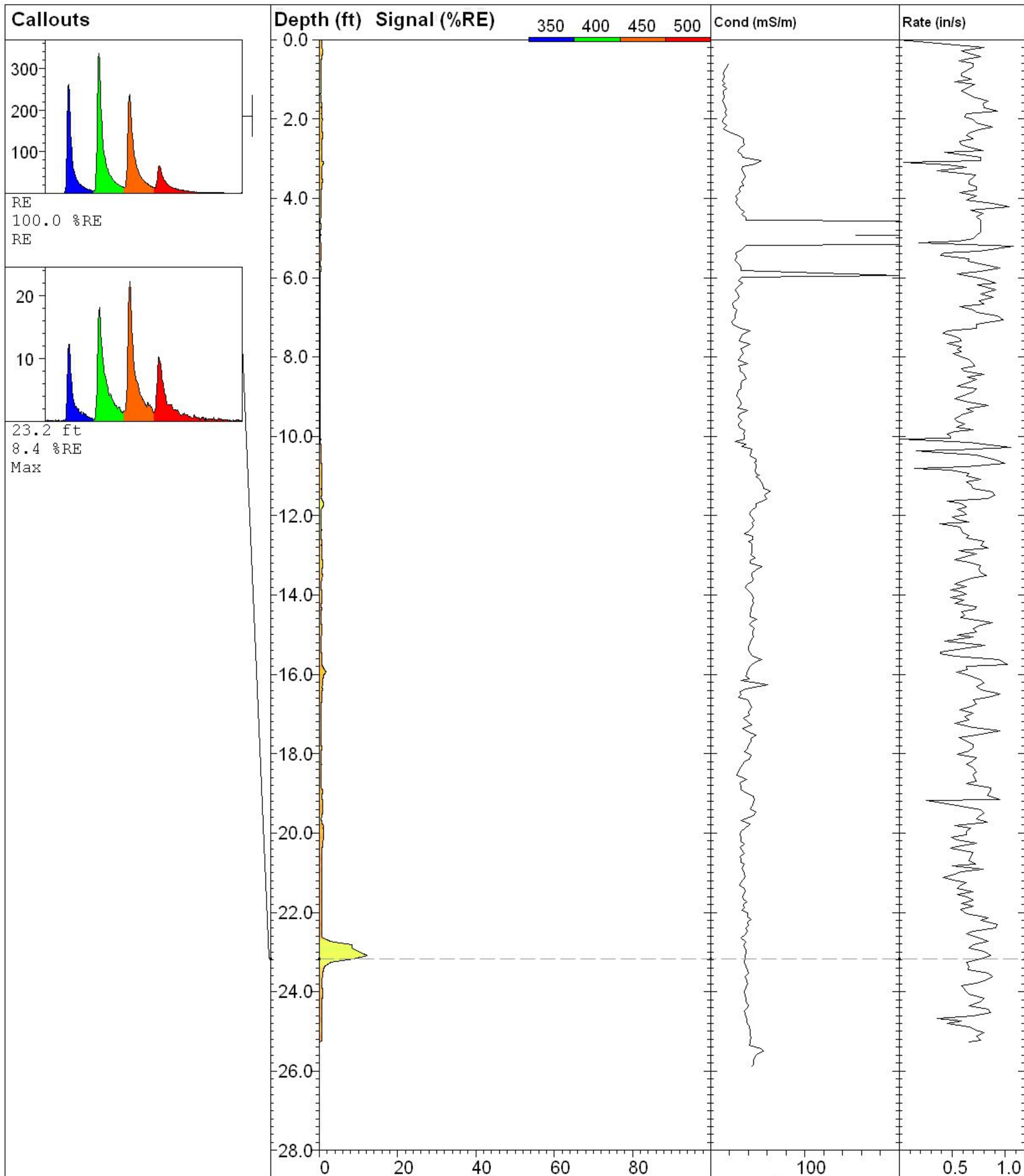
Longitude / Fix:
84.35.074 / 0D

Max signal:
38.1 % @ 5.65 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-10 15:38 EDT



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LIF-A5.2-OB135

UVOST By Dakota

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Site:
Plant - 2

Latitude / Datum:
42.44.251 / ?

Final depth:
25.26 ft

Client:
Arcadis

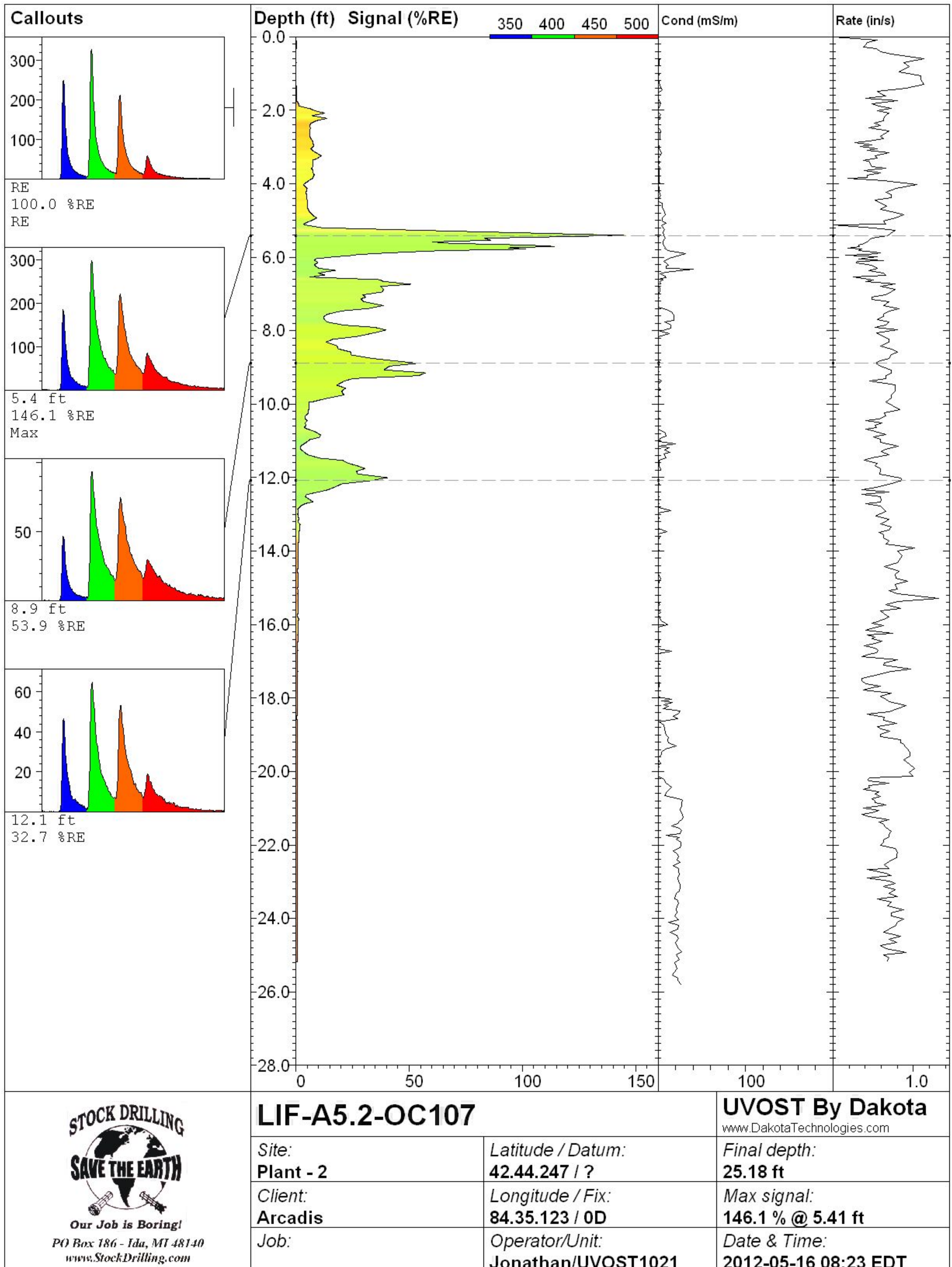
Longitude / Fix:
84.35.060 / 0D

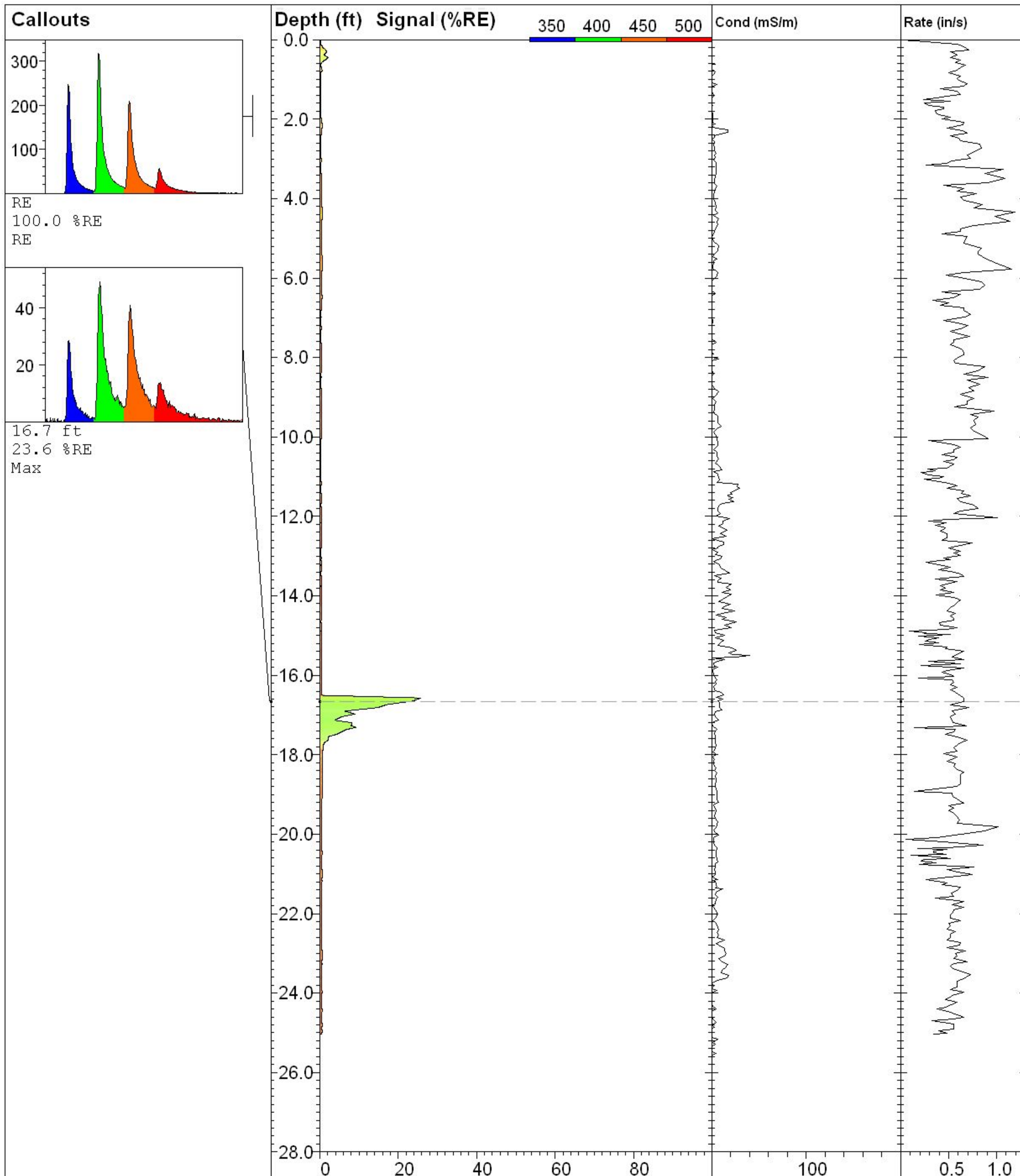
Max signal:
12.3 % @ 23.09 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-10 14:40 EDT





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LIF-A5.2-OE111

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 2

Latitude / Datum:
42.44.248 / ?

Final depth:
25.05 ft

Client:
Arcadis

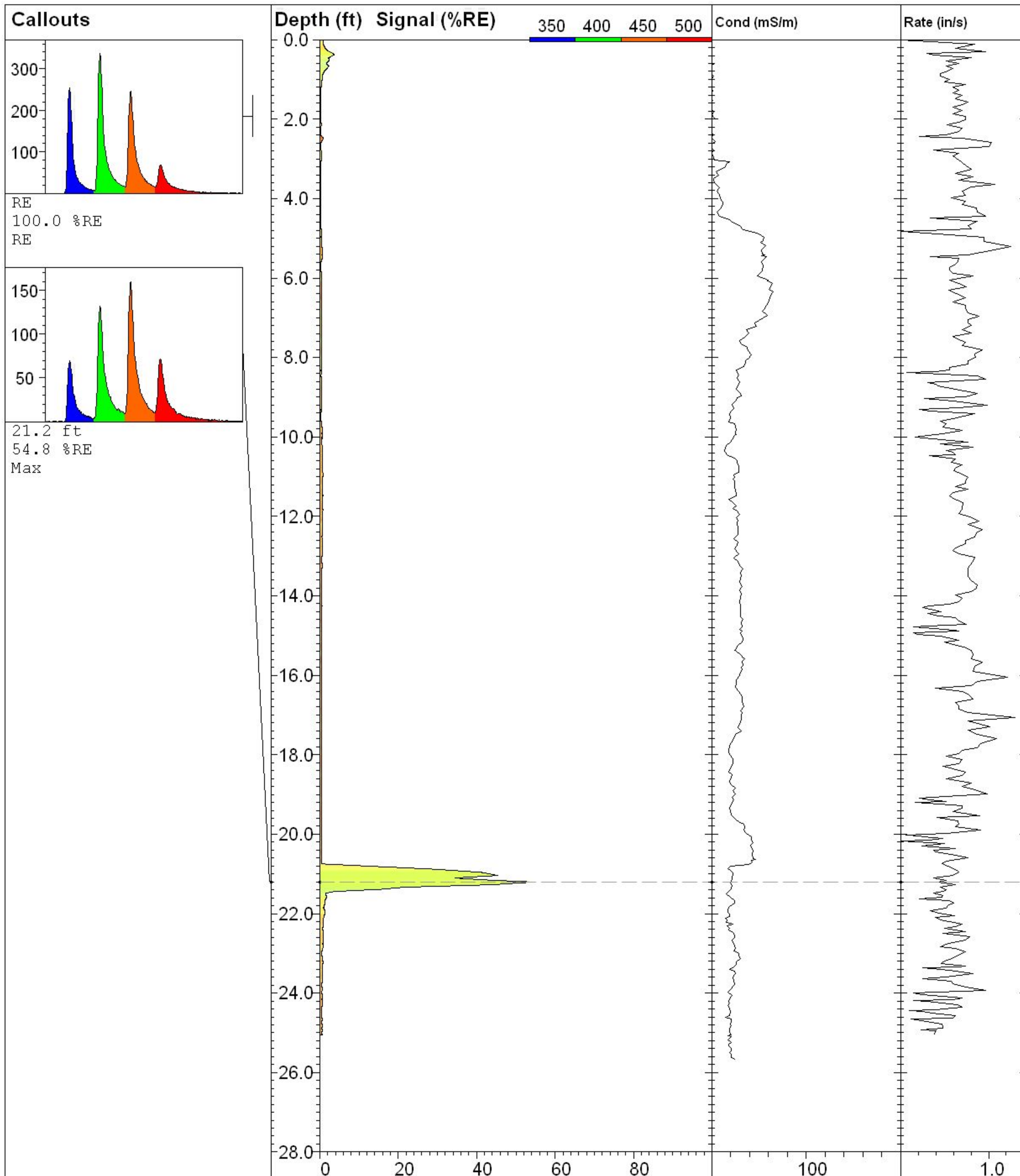
Longitude / Fix:
84.35.115 / 0D

Max signal:
25.8 % @ 16.57 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-16 09:05 EDT



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LIF-A5.2-OE117

UVOST By Dakota

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Site:
Plant - 2

Latitude / Datum:
42.44.244 / ?

Final depth:
25.06 ft

Client:
Arcadis

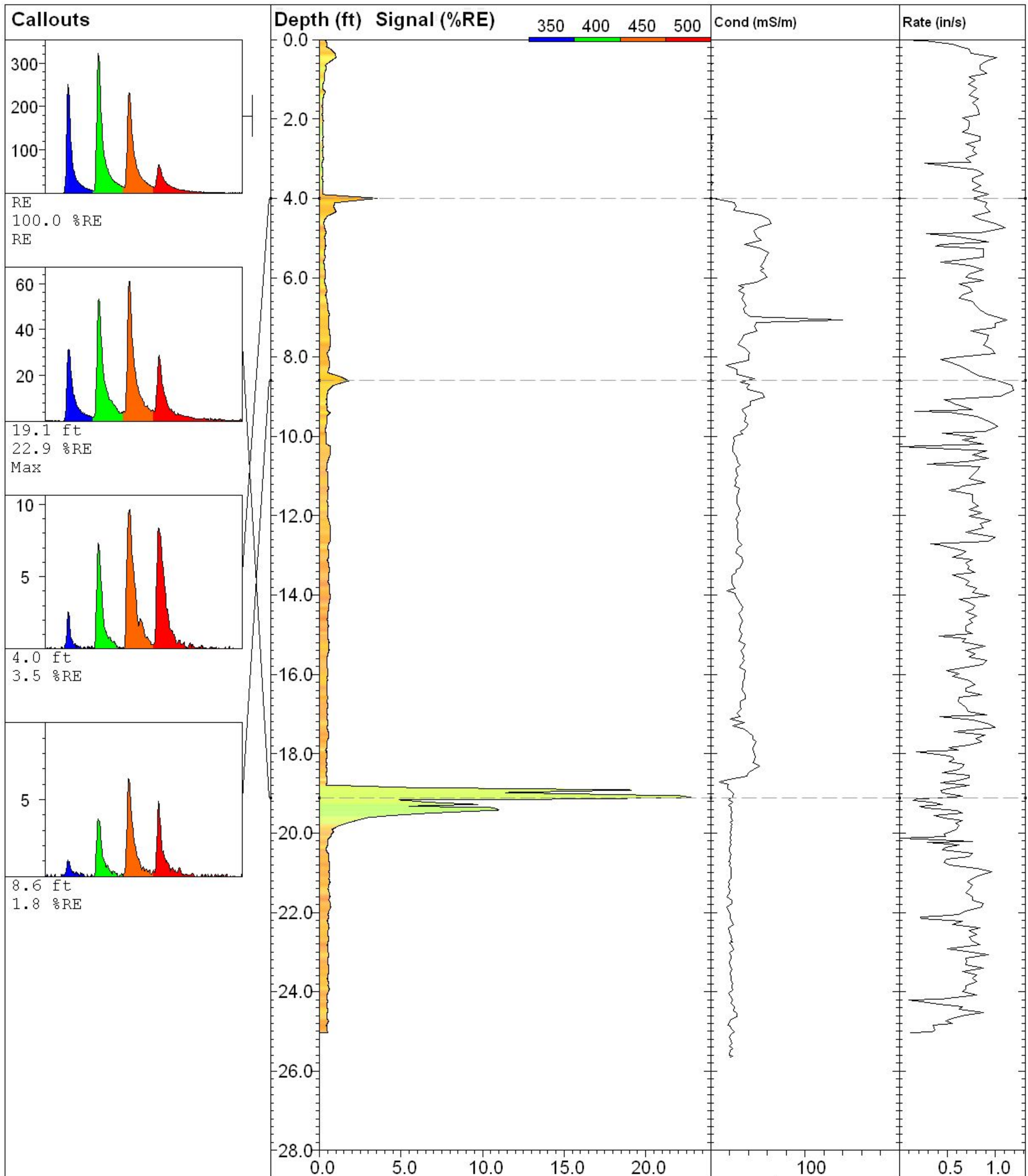
Longitude / Fix:
84.35.103 / 0D

Max signal:
54.8 % @ 21.21 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-09 11:33 EDT



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LIF-A5.2-OE120

UVOST By Dakota

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Site:
Plant - 2

Latitude / Datum:
42.44.245 / ?

Final depth:
25.03 ft

Client:
Arcadis

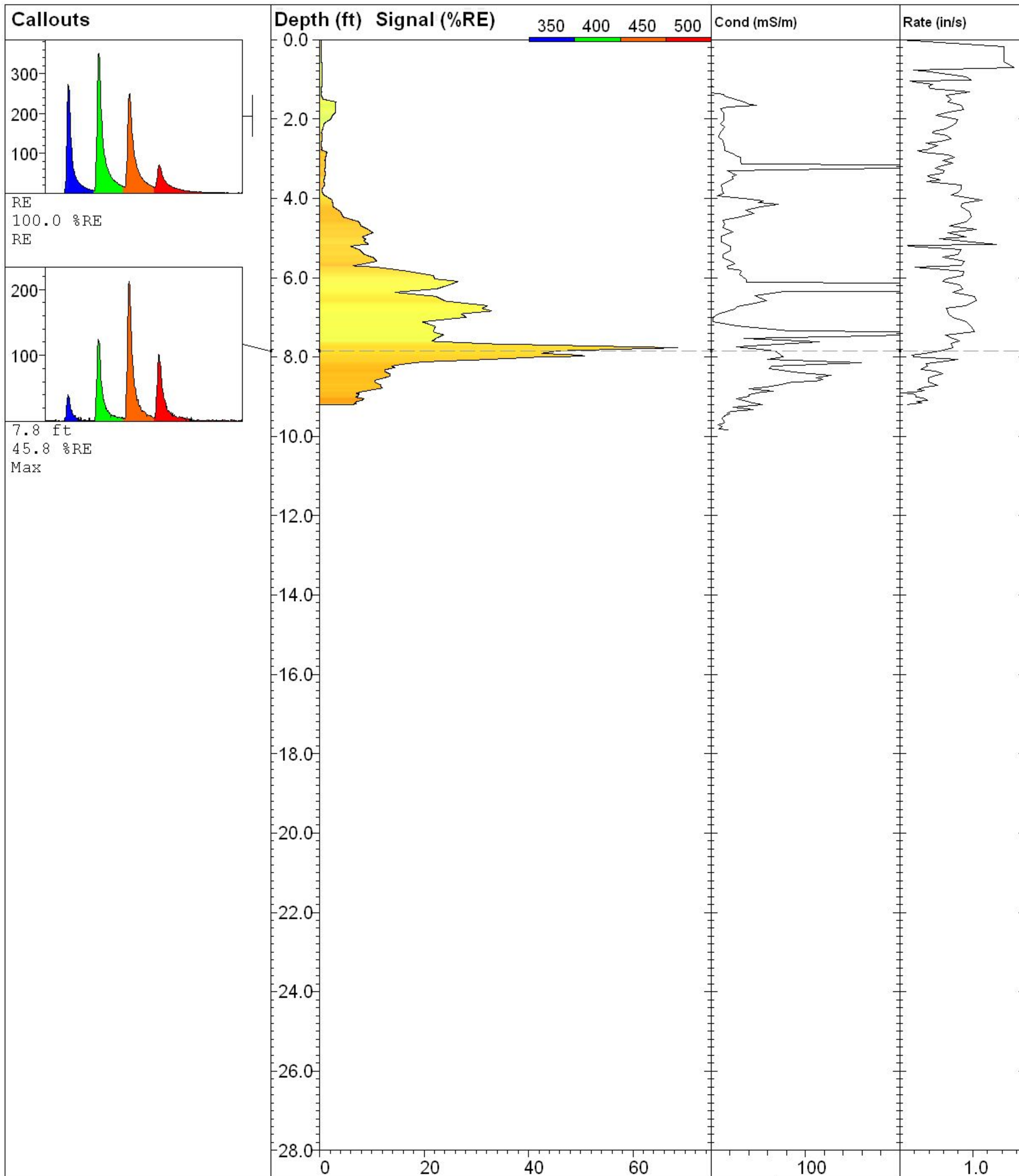
Longitude / Fix:
84.35.095 / 0D

Max signal:
22.9 % @ 19.11 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-09 09:56 EDT



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LIF-A5.2-OE123

UVOST By Dakota

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Site:
Plant - 2

Latitude / Datum:
42.44.14 / ?

Final depth:
9.21 ft

Client:
Arcadis

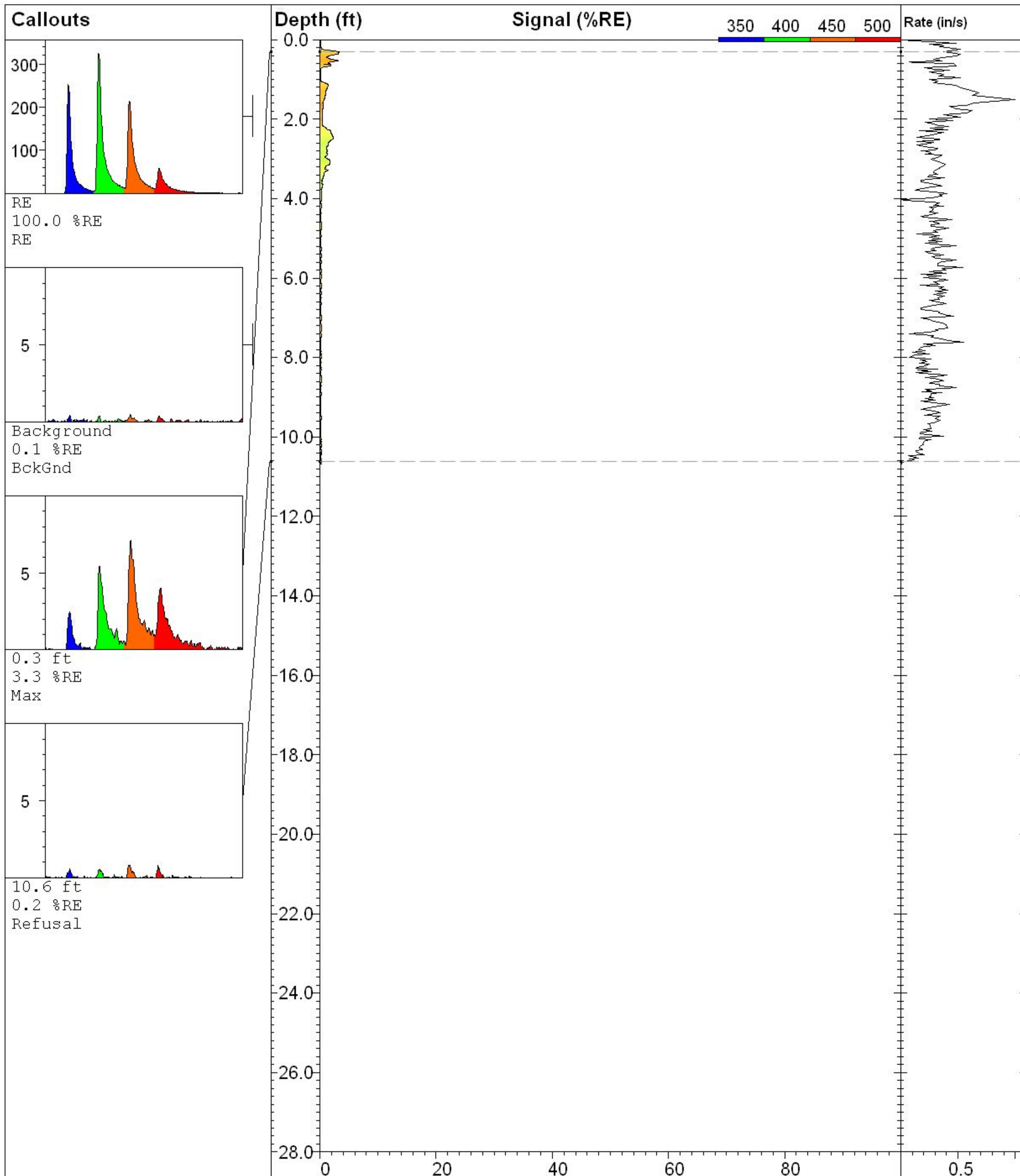
Longitude / Fix:
84.35.5 / 0D

Max signal:
68.6 % @ 7.77 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-09 08:42 EDT



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LIF-A5.2-OE92

UVOST By Dakota

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Site:
Plant - 2

Latitude / Datum:
42.44.243 / ?

Final depth:
10.68 ft

Client:
Arcadis

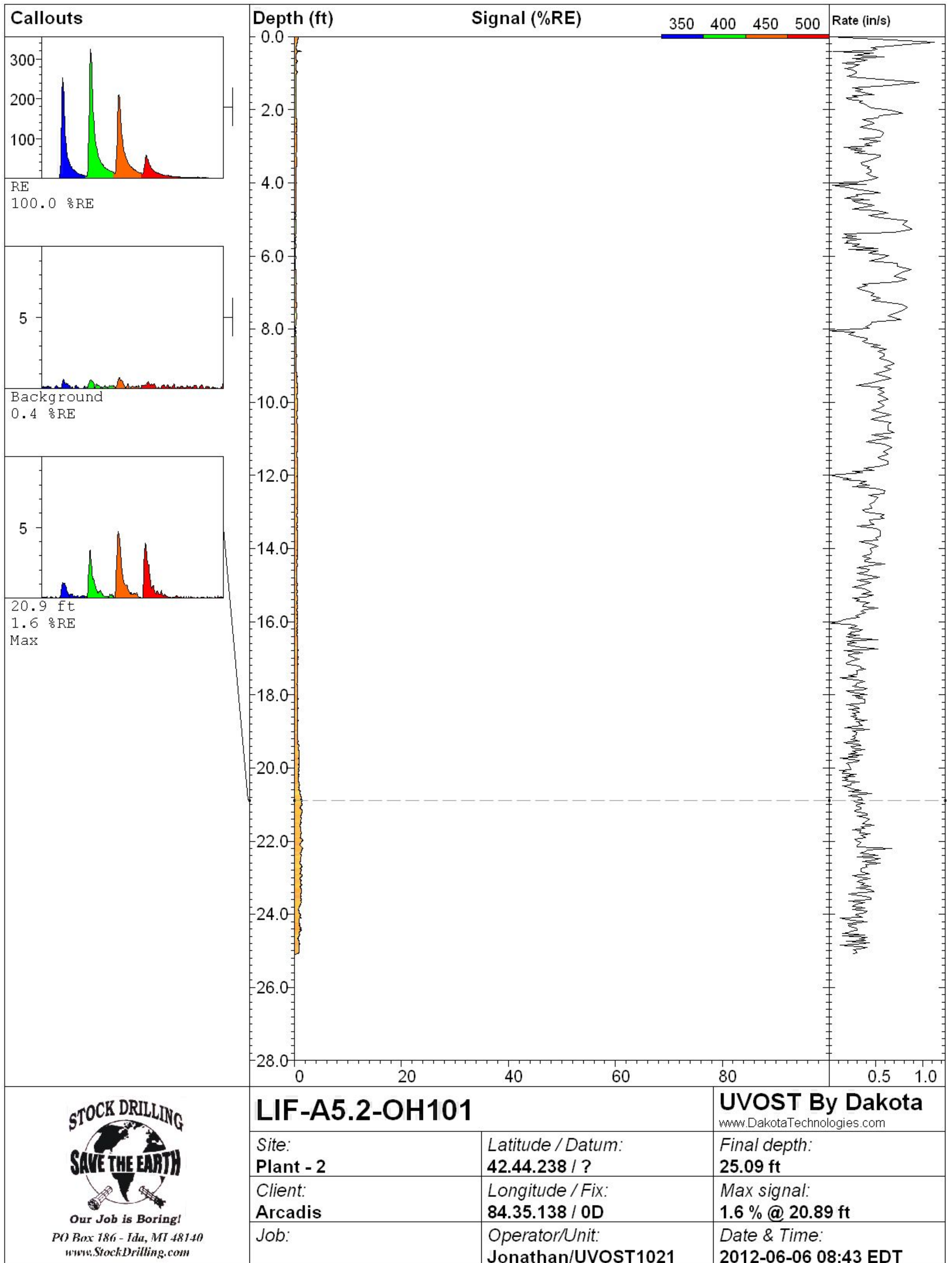
Longitude / Fix:
84.35.153 / 0D

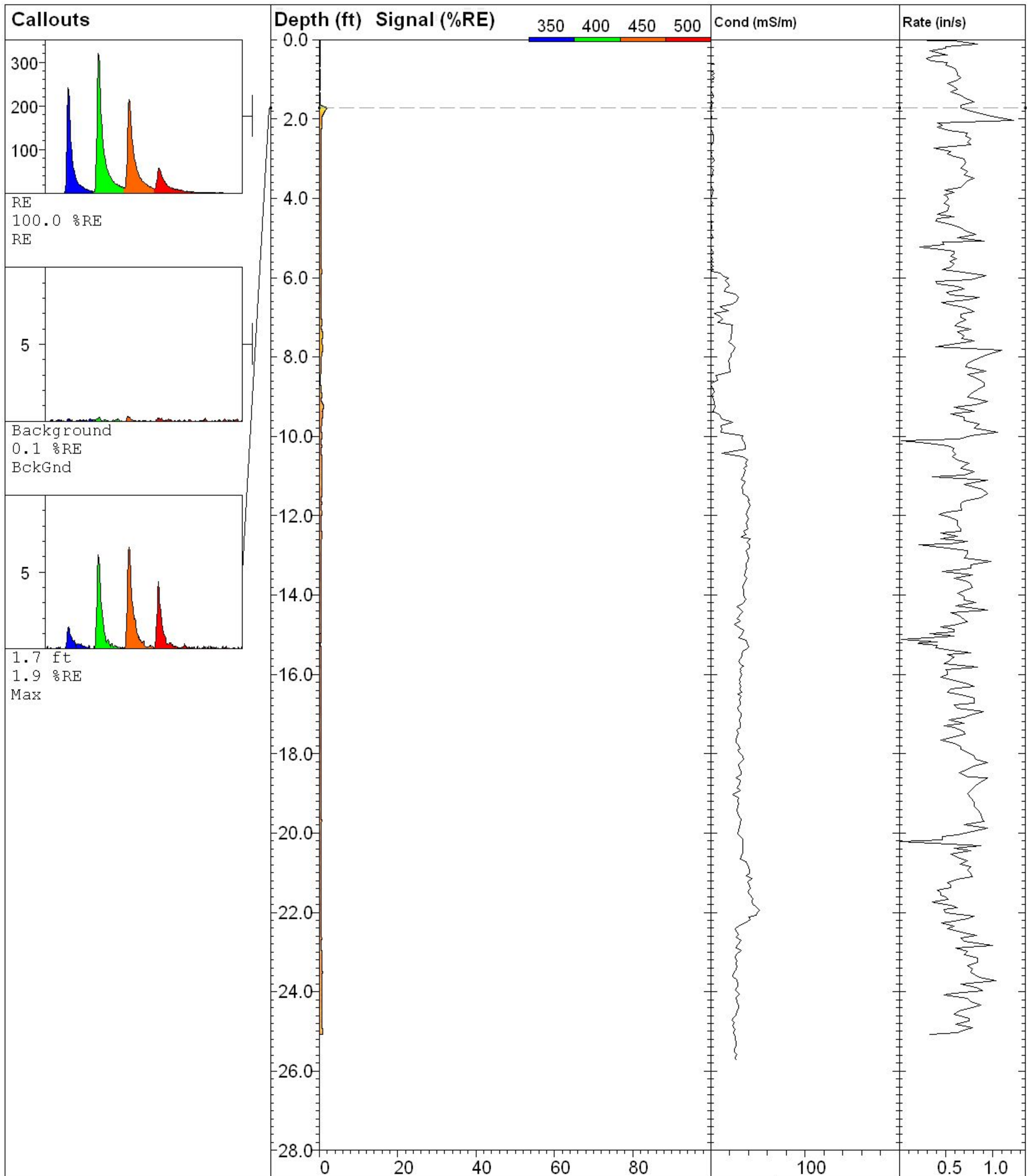
Max signal:
3.3 % @ 0.30 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-06-04 12:22 EDT





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LIF-A5.2-OJ107

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 3

Latitude / Datum:
42.44.234 / ?

Final depth:
25.08 ft

Client:
Arcadis

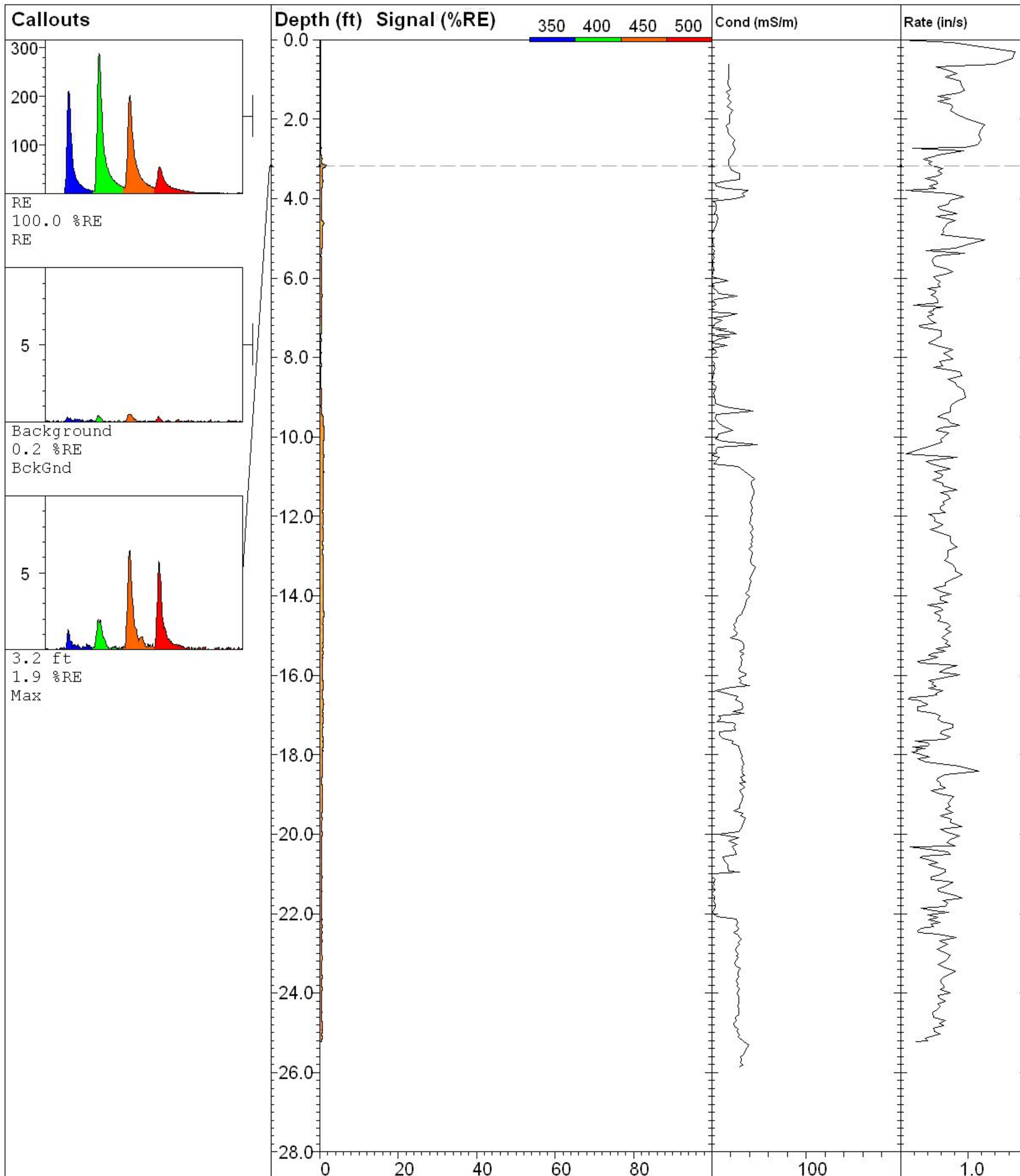
Longitude / Fix:
84.35.120 / 0D

Max signal:
1.9 % @ 1.72 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-15 15:50 EDT



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LIF-A5.2-OK111

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 3

Latitude / Datum:
42.44.234 / ?

Final depth:
25.22 ft

Client:
Arcadis

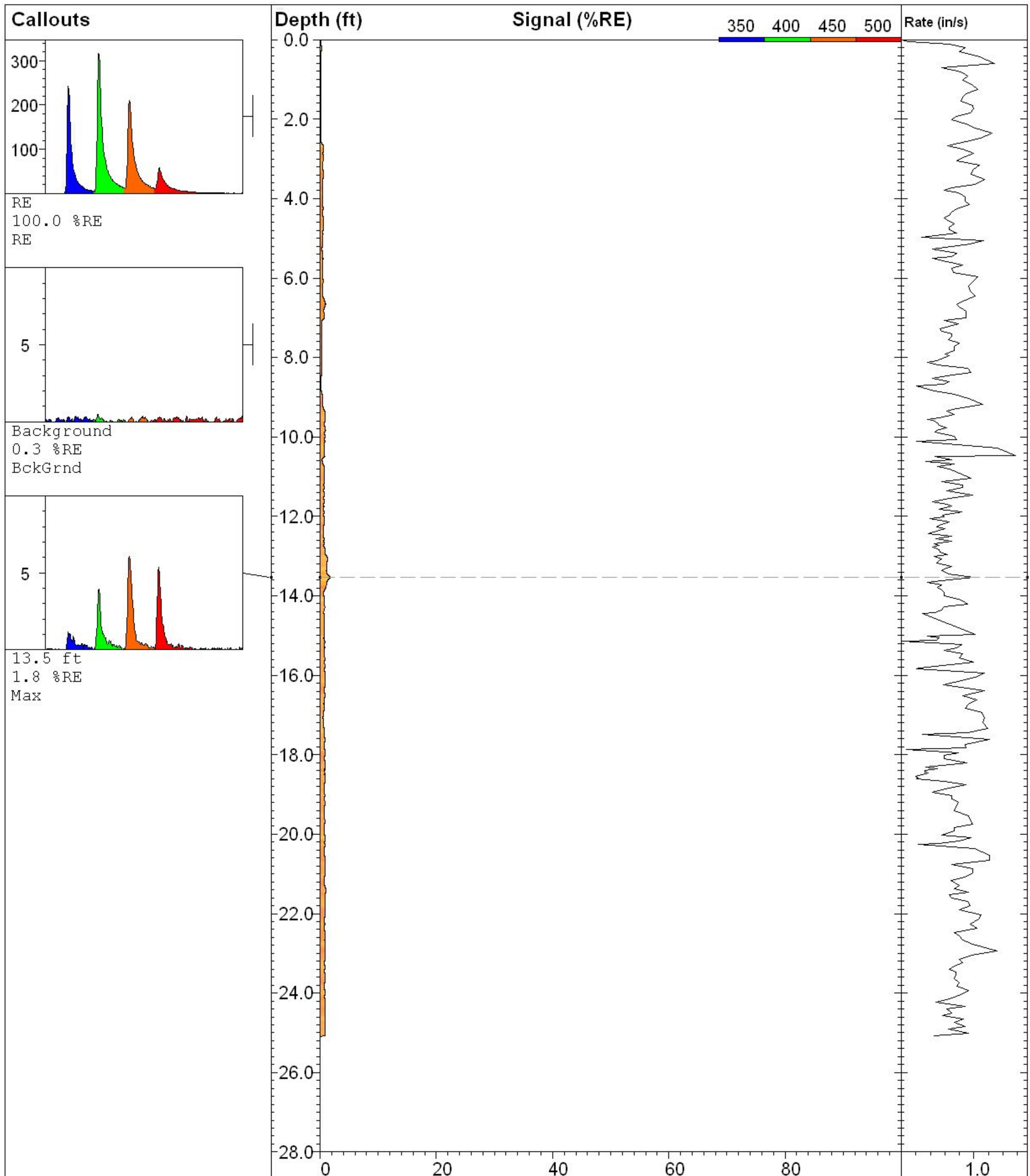
Longitude / Fix:
84.35.106 / 0D

Max signal:
1.9 % @ 3.18 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-15 13:51 EDT



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LIF-A5.2-OK130

UVOST By Dakota

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Site:
Plant - 2

Latitude / Datum:
42.44.287 / ?

Final depth:
25.08 ft

Client:
Arcadis

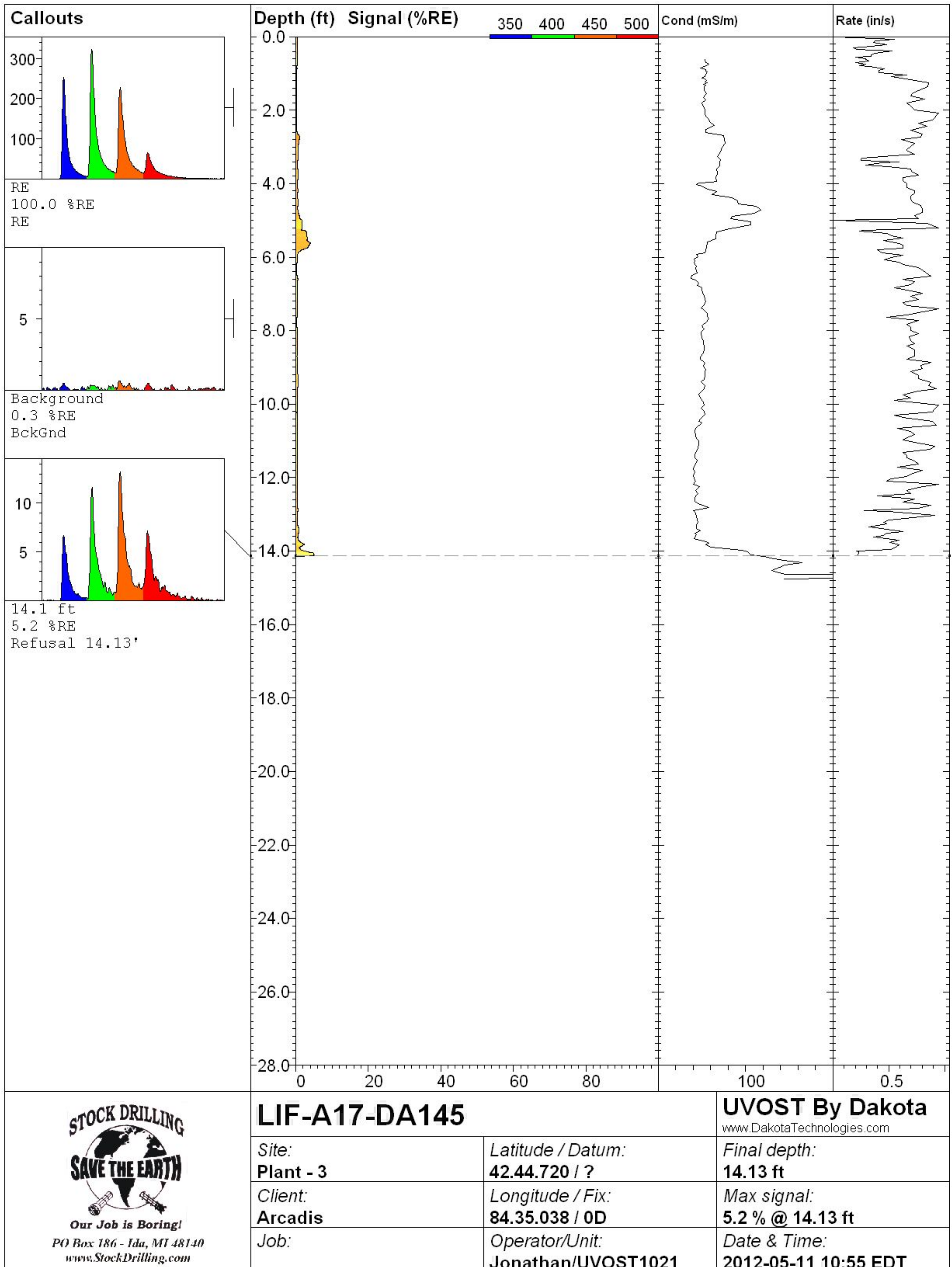
Longitude / Fix:
84.35.066 / 0D

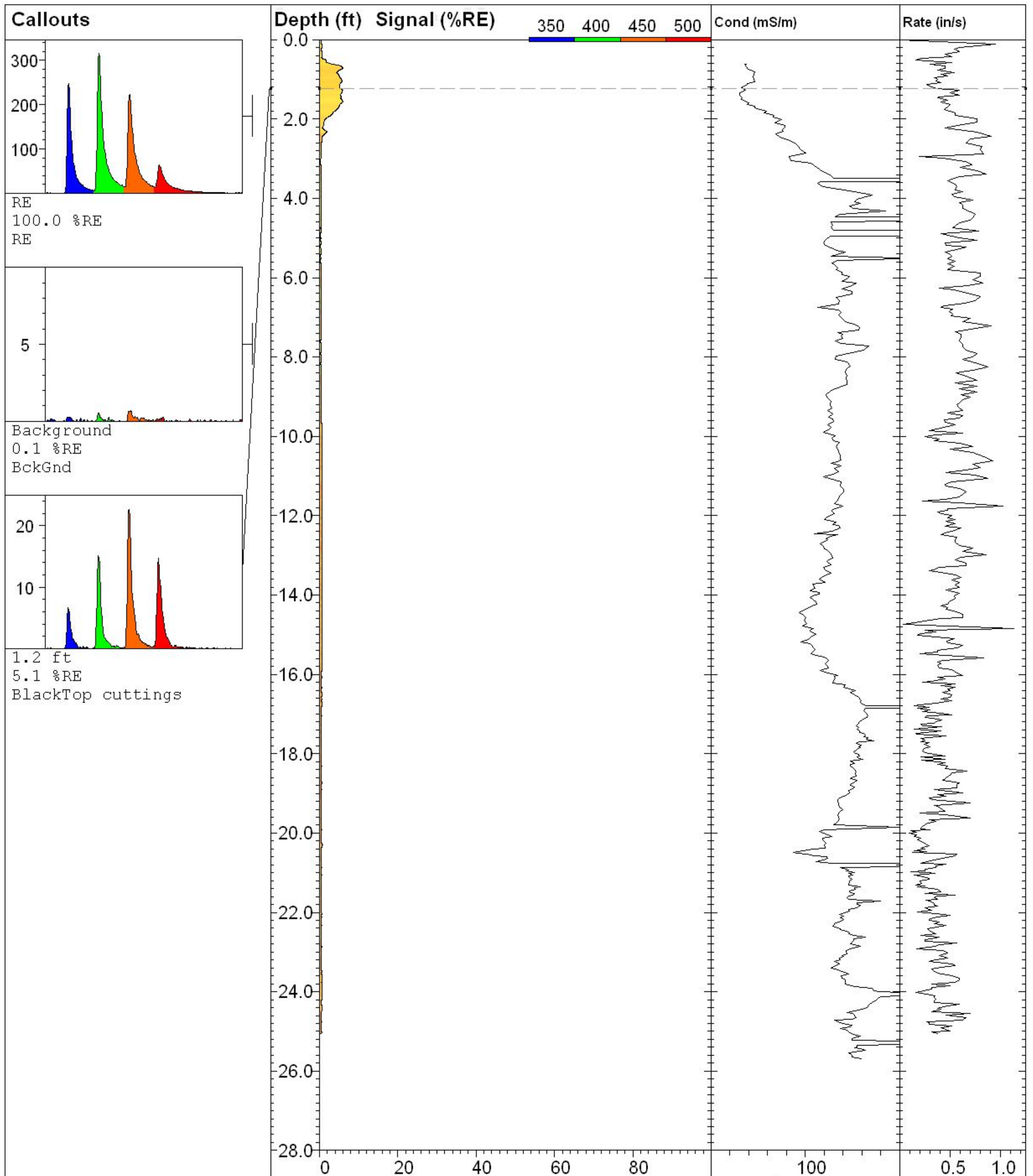
Max signal:
1.8 % @ 13.53 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-16 15:51 EDT





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LIF-A17-DA151

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 3

Latitude / Datum:
42.44.720 / ?

Final depth:
25.06 ft

Client:
Arcadis

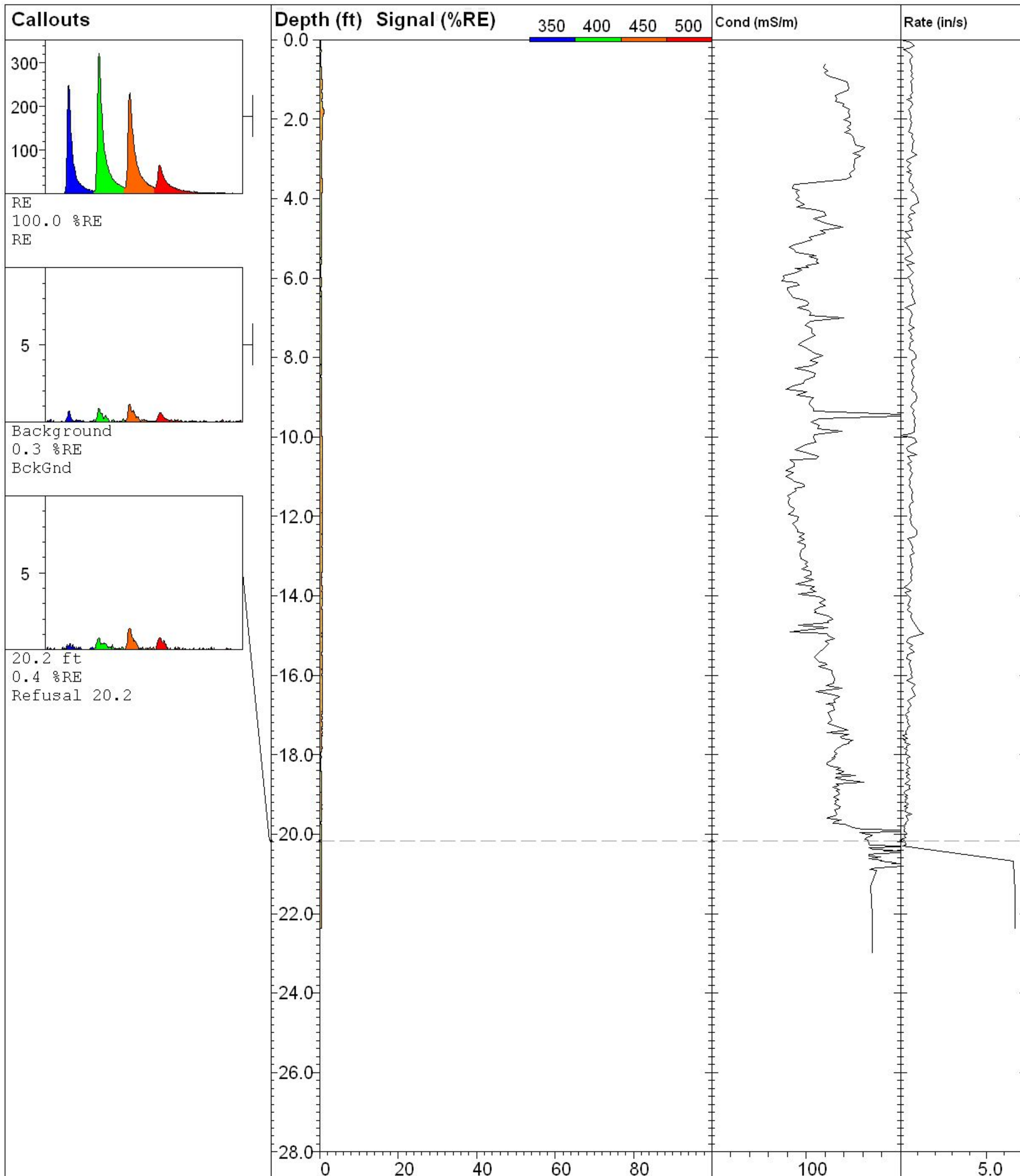
Longitude / Fix:
84.35.028 / 0D

Max signal:
6.1 % @ 0.72 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-11 11:20 EDT



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LIF-A17-DB143

UVOST By Dakota

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Site:
Plant - 3

Latitude / Datum:
42.44.718 / ?

Final depth:
22.36 ft

Client:
Arcadis

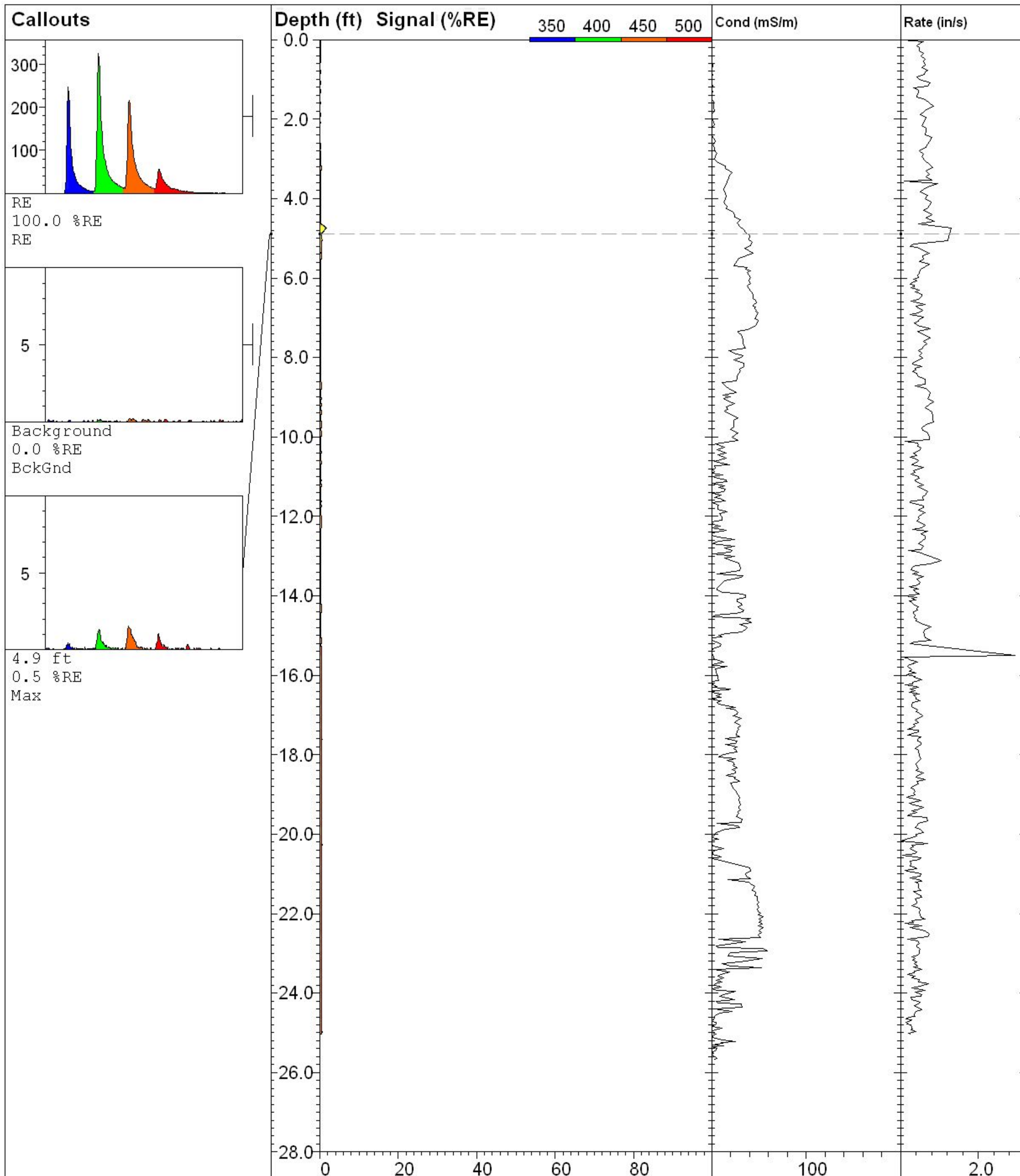
Longitude / Fix:
84.35.043 / 0D

Max signal:
1.0 % @ 1.82 ft

Job:

Operator/Unit:
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Date & Time:
2012-05-11 13:19 EDT



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LIF-A17-DC139

UVOST By Dakota

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Site:
Plant - 3

Latitude / Datum:
42.44.721 / ?

Final depth:
25.04 ft

Client:
Arcadis

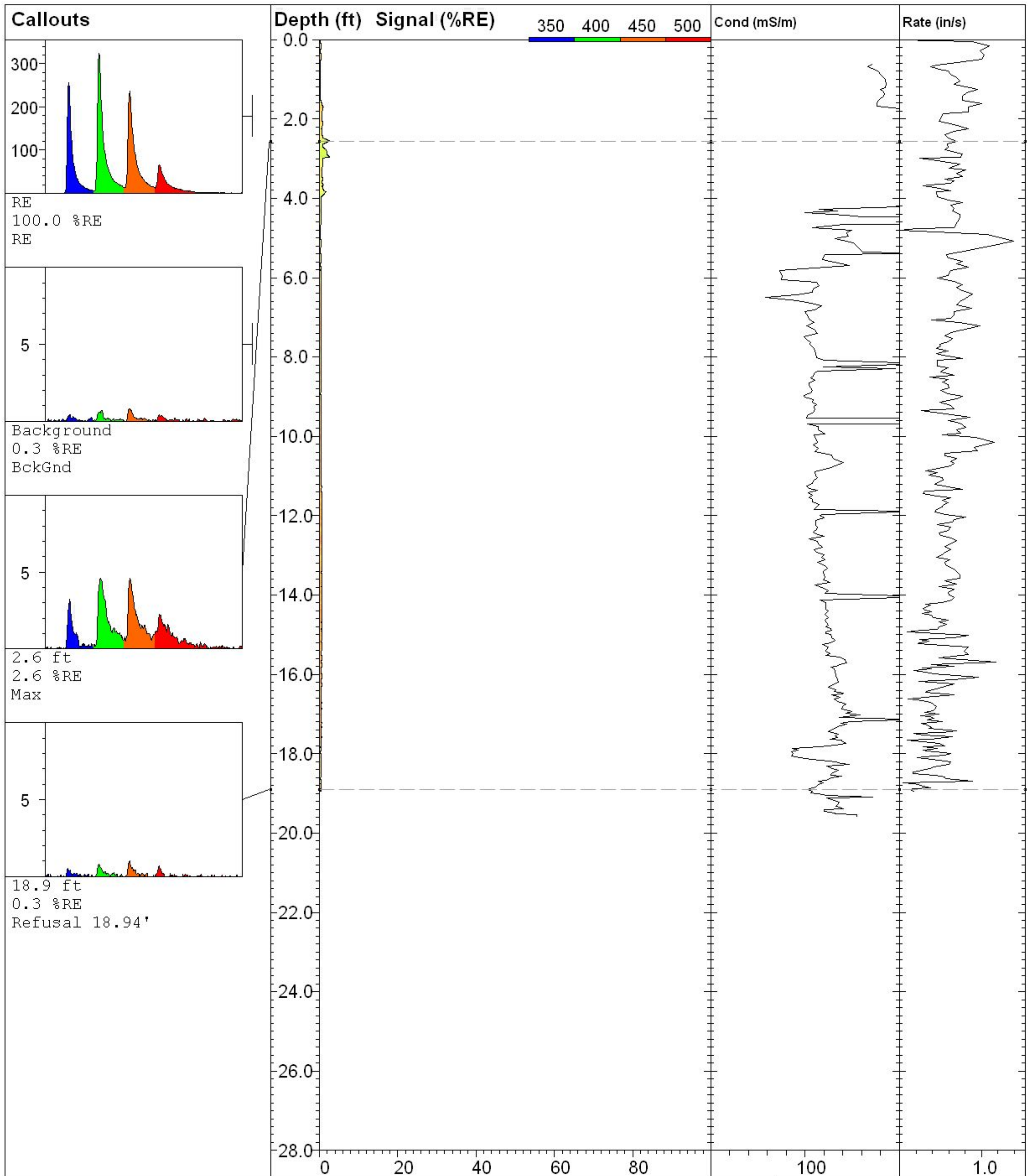
Longitude / Fix:
84.35.041 / 0D

Max signal:
1.6 % @ 4.74 ft

Job:

Operator/Unit:
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Date & Time:
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LIF-A17-DC141

UVOST By Dakota

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Site:
Plant - 3

Latitude / Datum:
42.44.719 / ?

Final depth:
18.94 ft

Client:
Arcadis

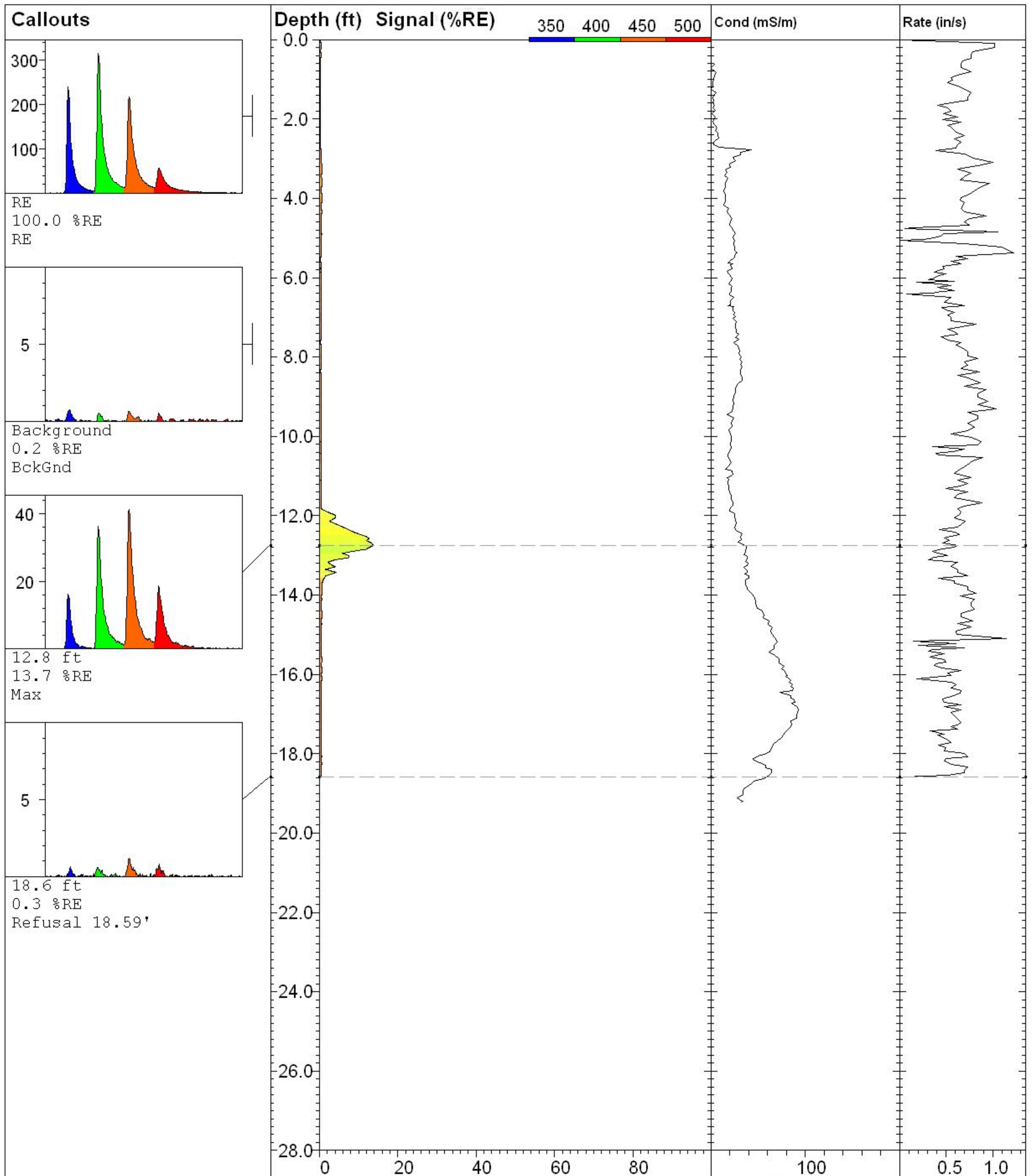
Longitude / Fix:
84.35.047 / 0D

Max signal:
2.6 % @ 2.56 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-11 14:37 EDT



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LIF-A17-DC149

UVOST By Dakota

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Site:
Plant - 3

Latitude / Datum:
42.44.712 / ?

Final depth:
18.59 ft

Client:
Arcadis

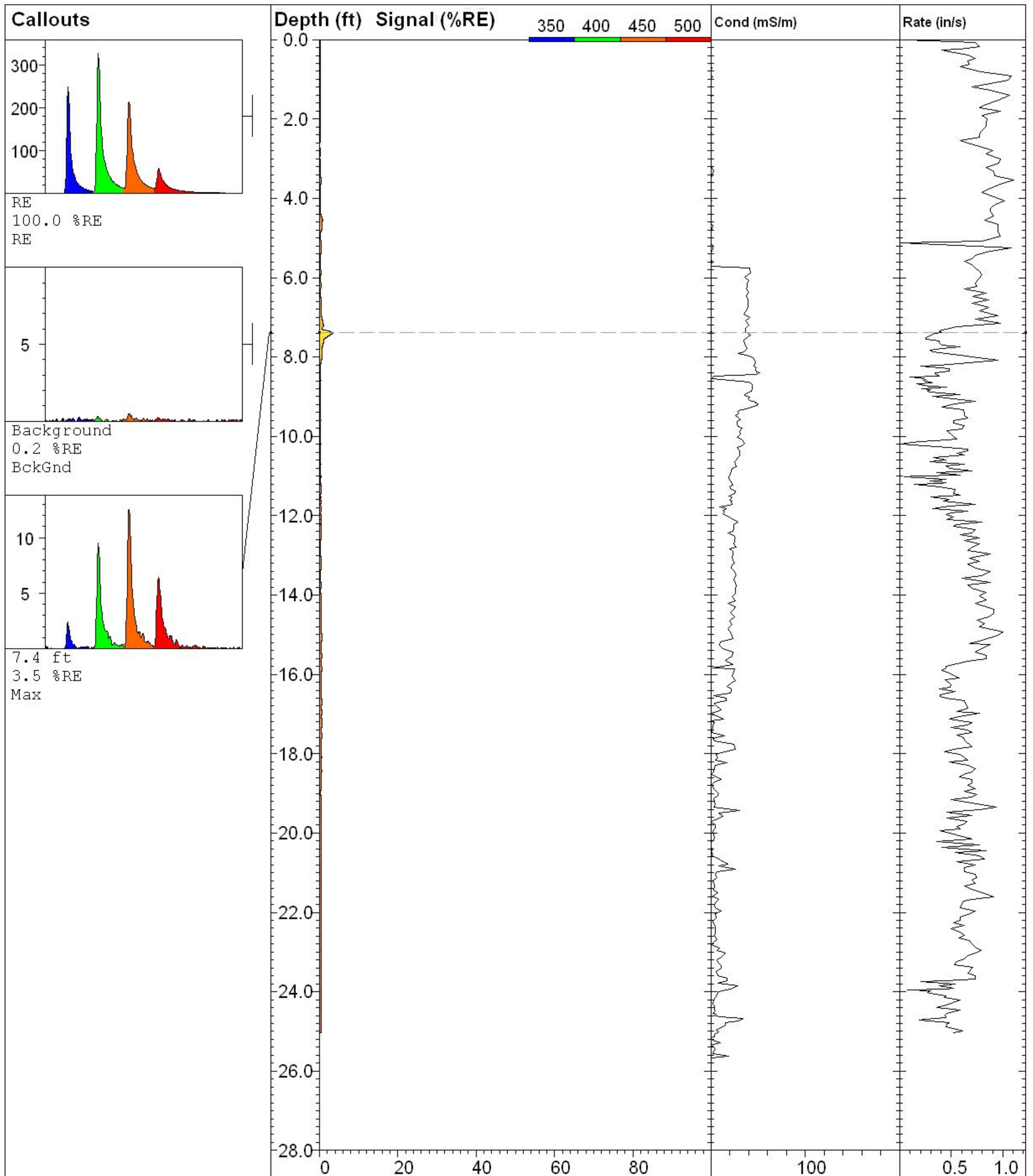
Longitude / Fix:
84.35.036 / 0D

Max signal:
13.7 % @ 12.75 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-14 16:11 EDT



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LIF-A17-DE139

UVOST By Dakota

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Site:
Plant - 3

Latitude / Datum:
42.44.715 / ?

Final depth:
25.04 ft

Client:
Arcadis

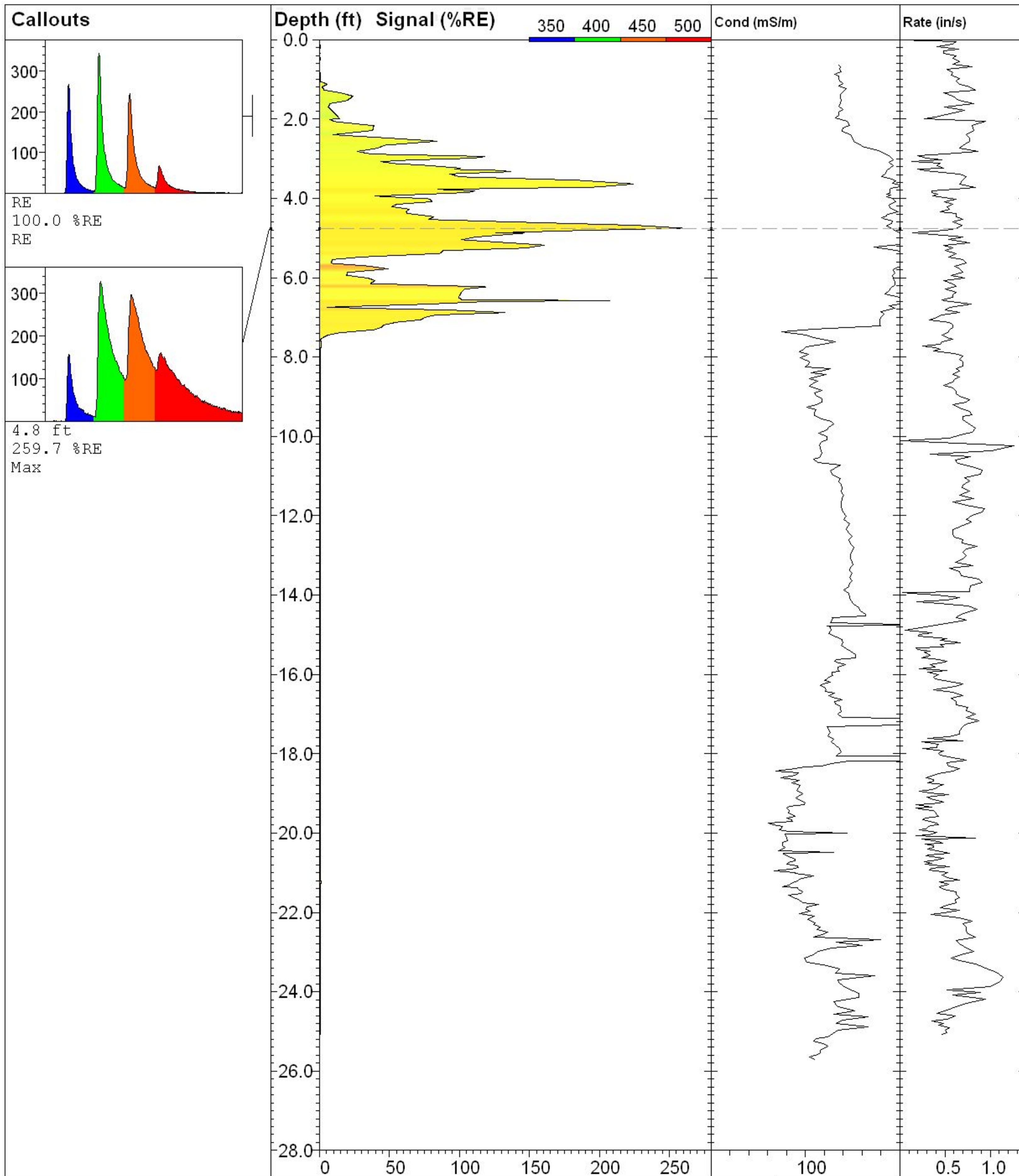
Longitude / Fix:
84.35.051 / 0D

Max signal:
3.5 % @ 7.39 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-15 09:36 EDT



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LIF-A17-DE141

Site:
Plant - 3

Client:
Arcadis

Job:

Latitude / Datum:
42.44.715 / ?

Longitude / Fix:
84.35.048 / 0D

Operator/Unit:
Jonathan/UVOST1021

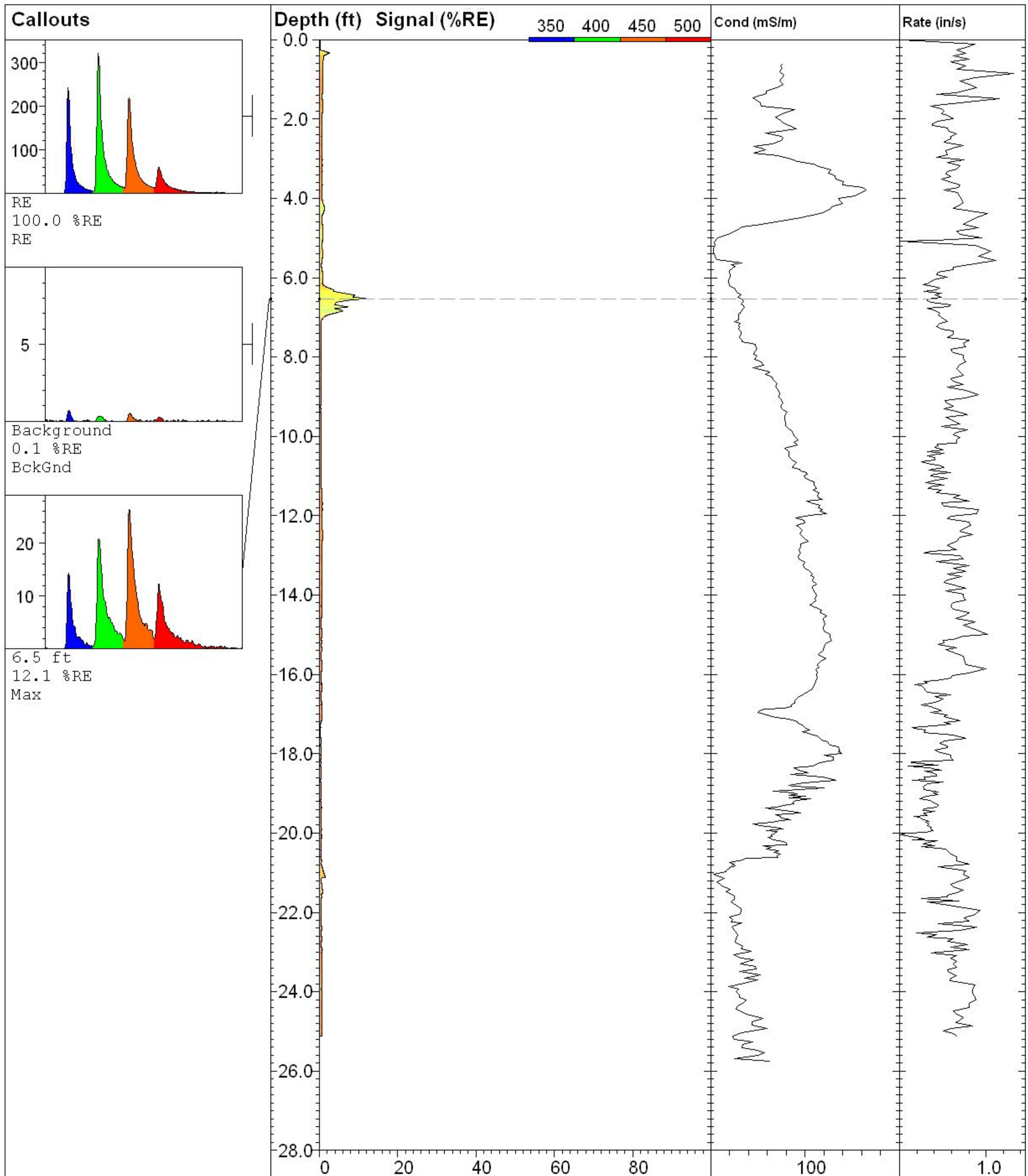
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Final depth:
25.09 ft

Max signal:
259.7 % @ 4.75 ft

Date & Time:
2012-05-11 13:55 EDT



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LIF-A17-DE145

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 3

Latitude / Datum:
42.44.717 / ?

Final depth:
25.12 ft

Client:
Arcadis

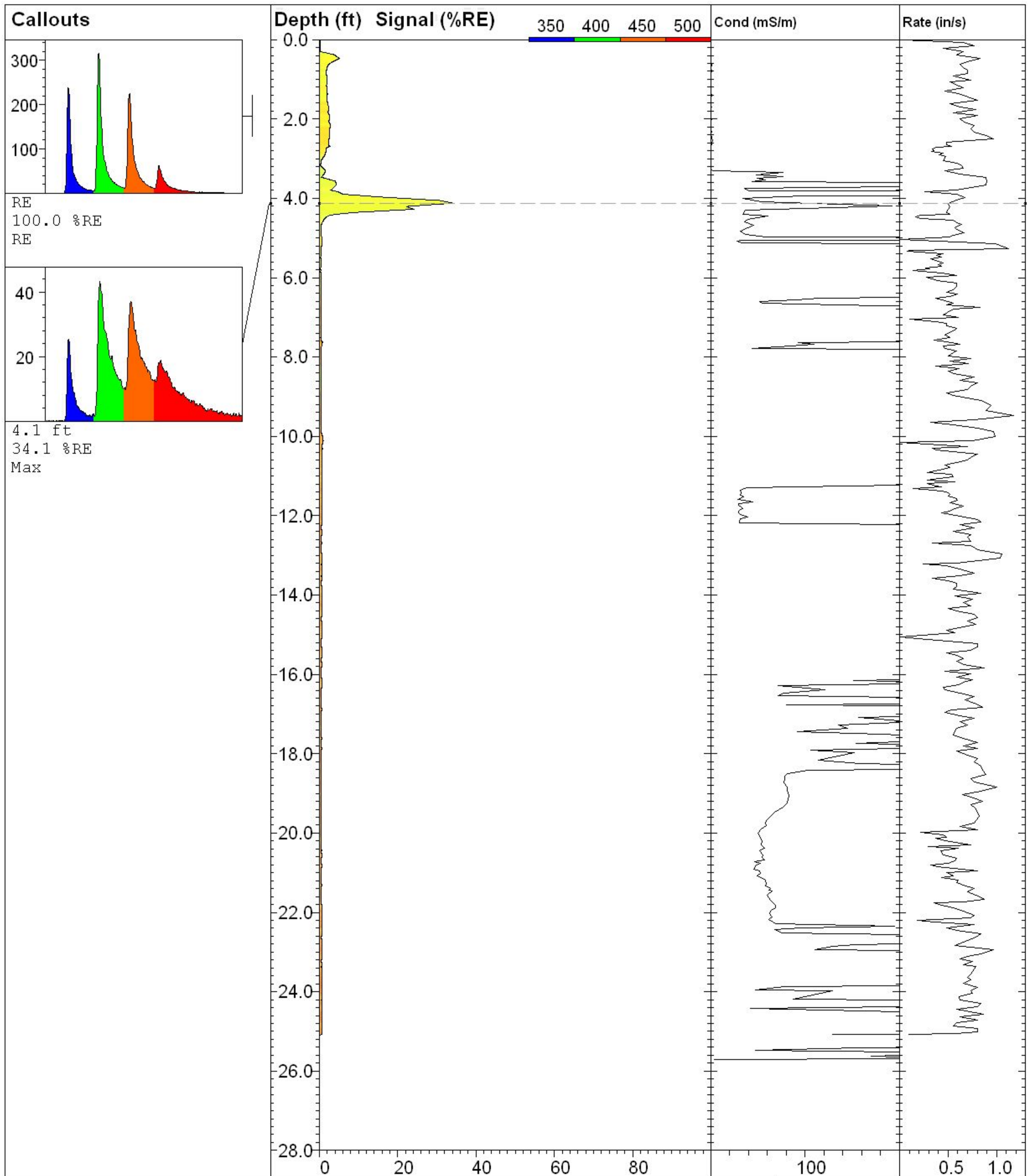
Longitude / Fix:
84.35.040 / 0D

Max signal:
12.1 % @ 6.53 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-14 16:55 EDT



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LIF-A17-DG141

UVOST By Dakota

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Site:
Plant - 3

Latitude / Datum:
42.44.712 / ?

Final depth:
25.09 ft

Client:
Arcadis

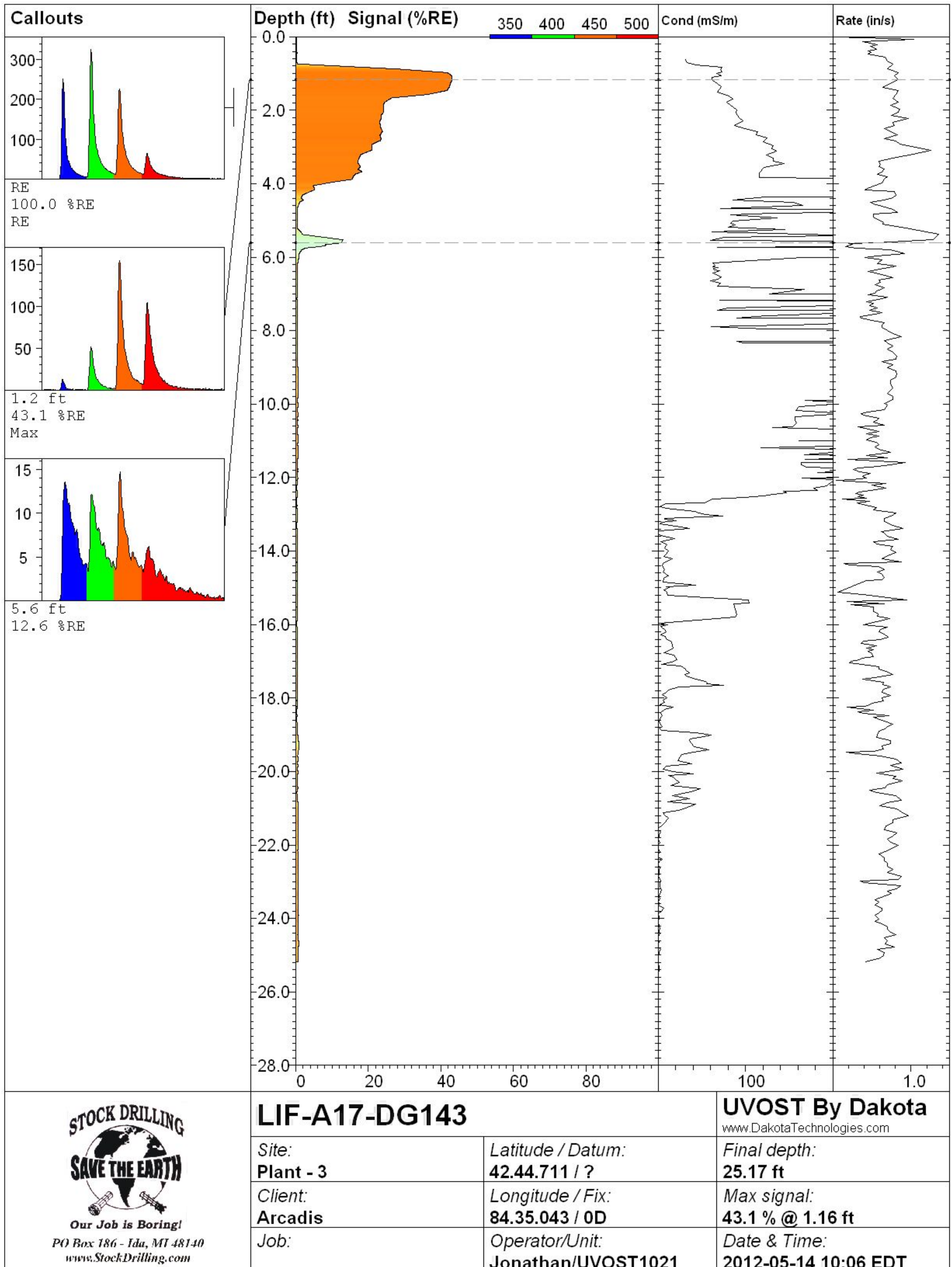
Longitude / Fix:
84.35.050 / 0D

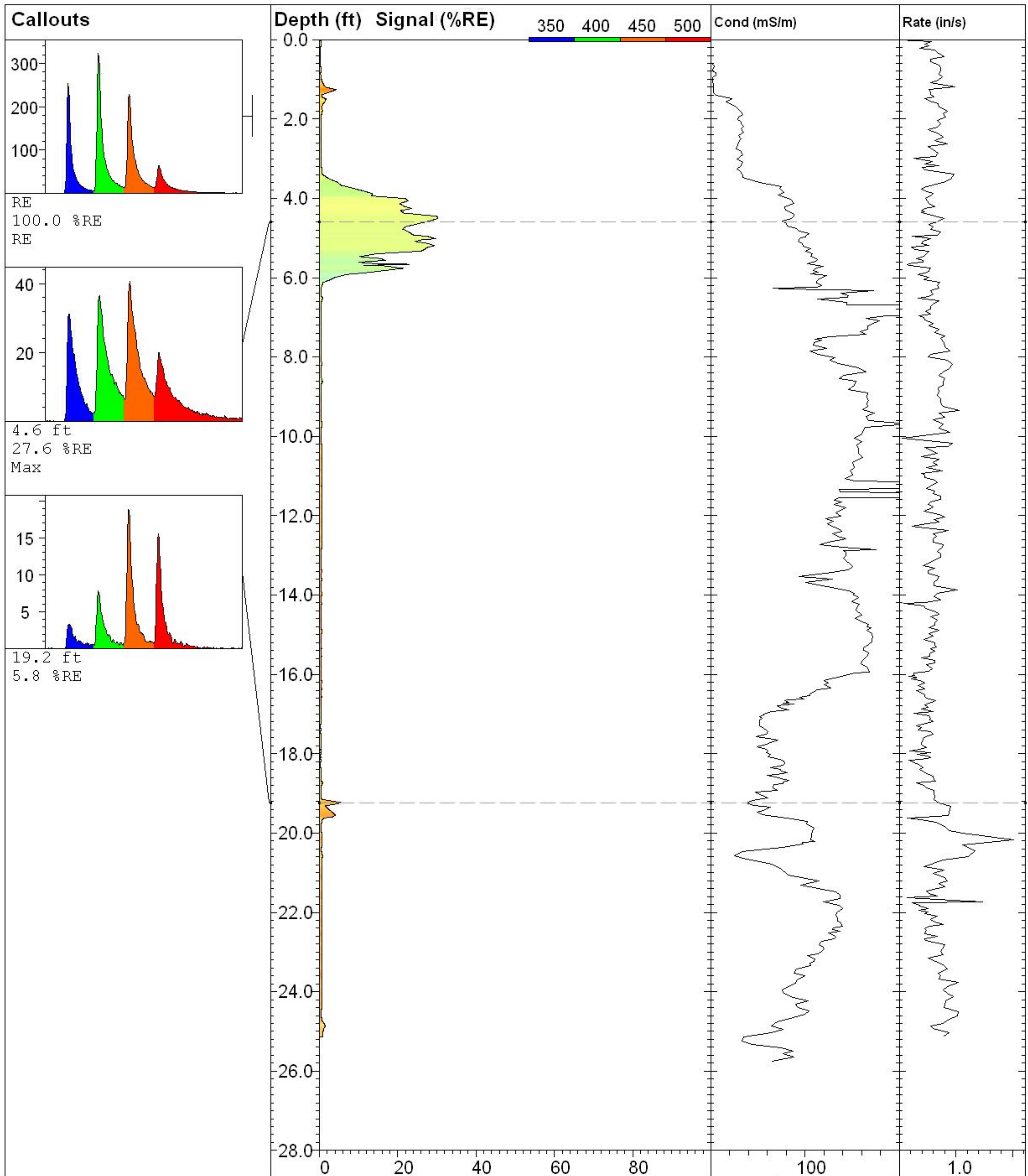
Max signal:
34.1 % @ 4.12 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-14 11:19 EDT





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LIF-A17-DG145

UVOST By Dakota

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Site:
Plant - 3

Latitude / Datum:
42.44.712 / ?

Final depth:
25.15 ft

Client:
Arcadis

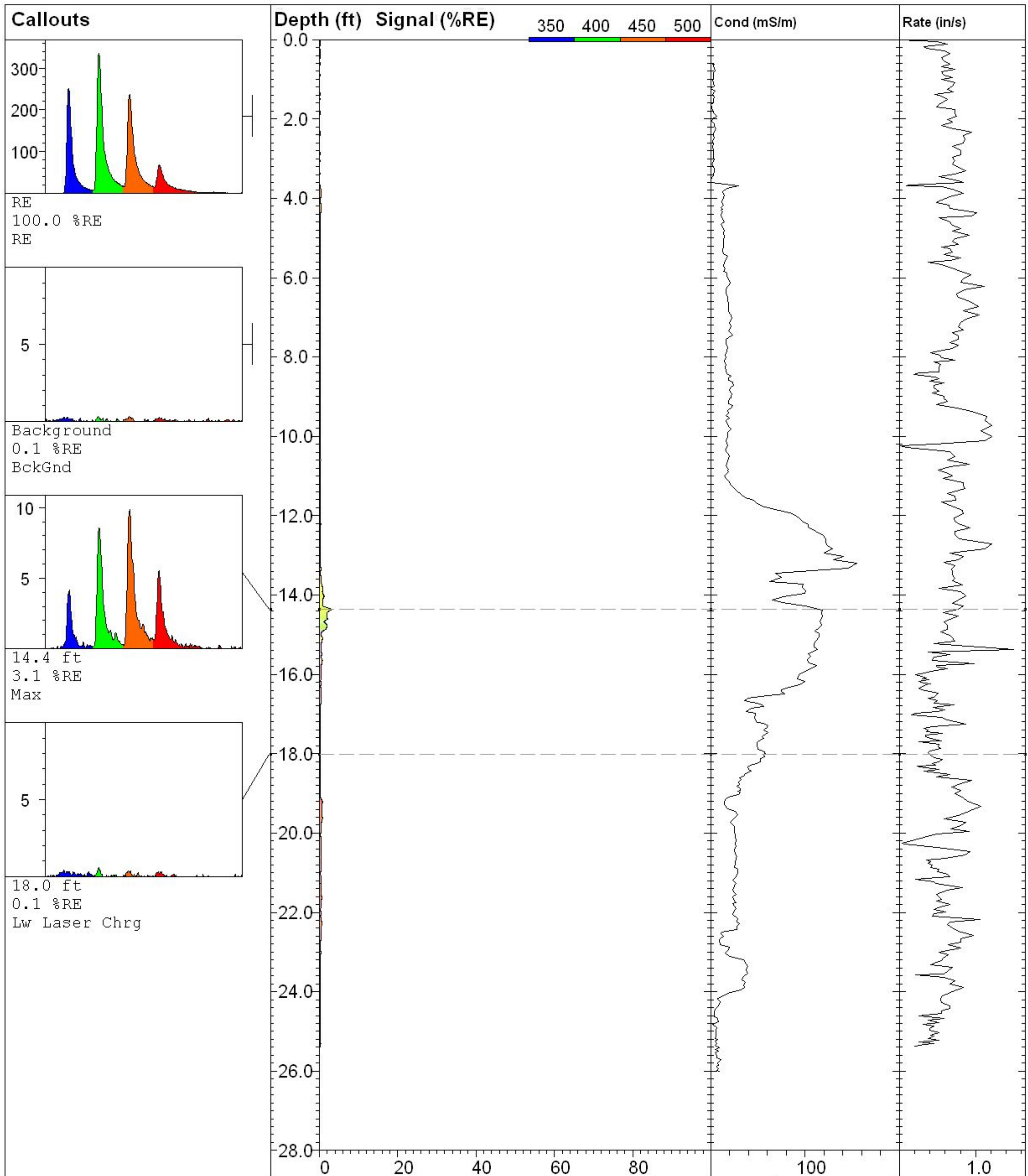
Longitude / Fix:
84.35.040 / 0D

Max signal:
30.2 % @ 4.51 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-14 09:15 EDT



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LIF-A17-DG149

UVOST By Dakota

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Site:
Plant - 3

Latitude / Datum:
42.44.708 / ?

Final depth:
25.39 ft

Client:
Arcadis

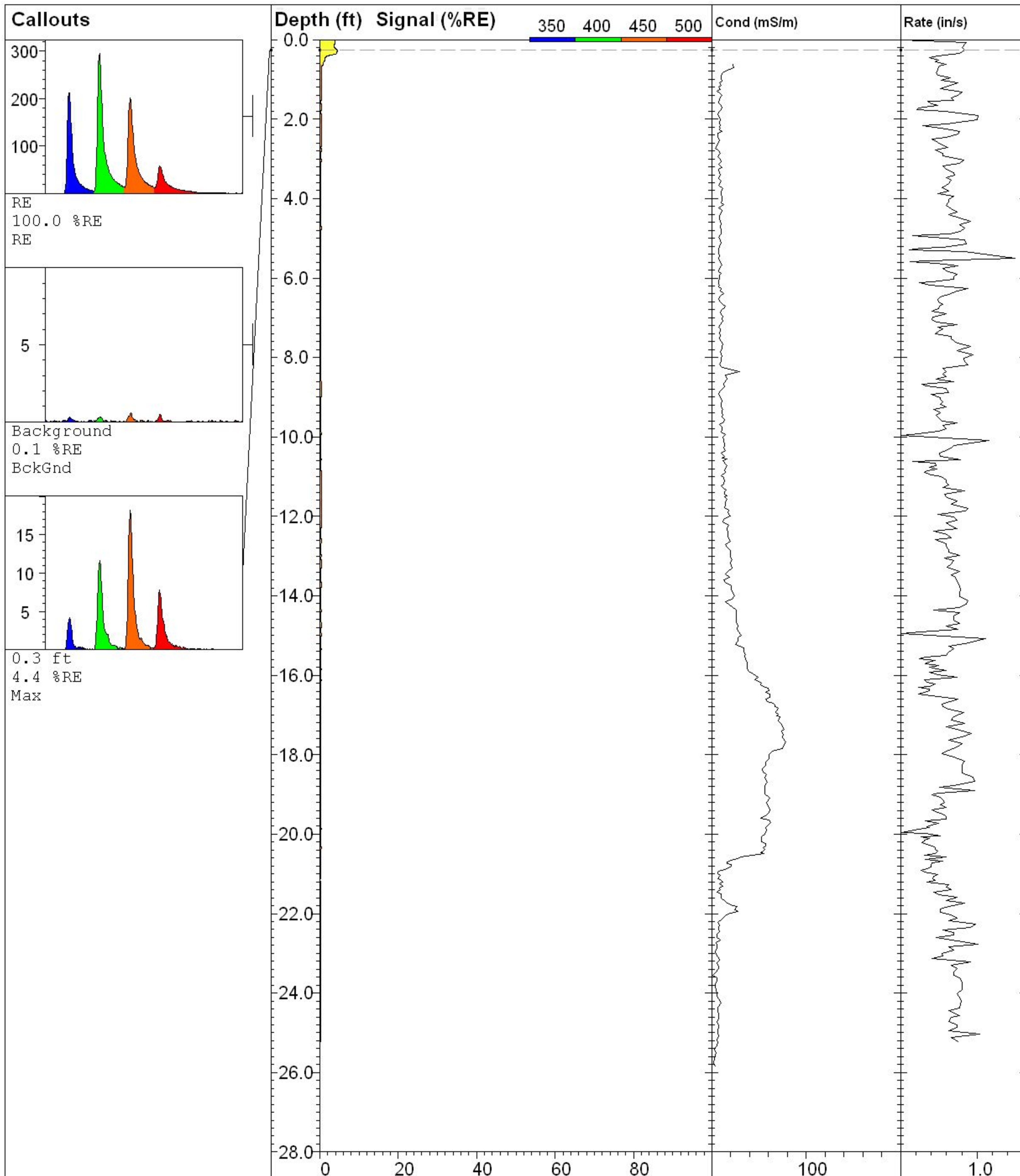
Longitude / Fix:
84.35.034 / 0D

Max signal:
3.1 % @ 14.36 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-05-14 14:46 EDT



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LIF-A17-DI141

UVOST By Dakota

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Site:
Plant - 3

Latitude / Datum:
42.44.707 / ?

Final depth:
25.23 ft

Client:
Arcadis

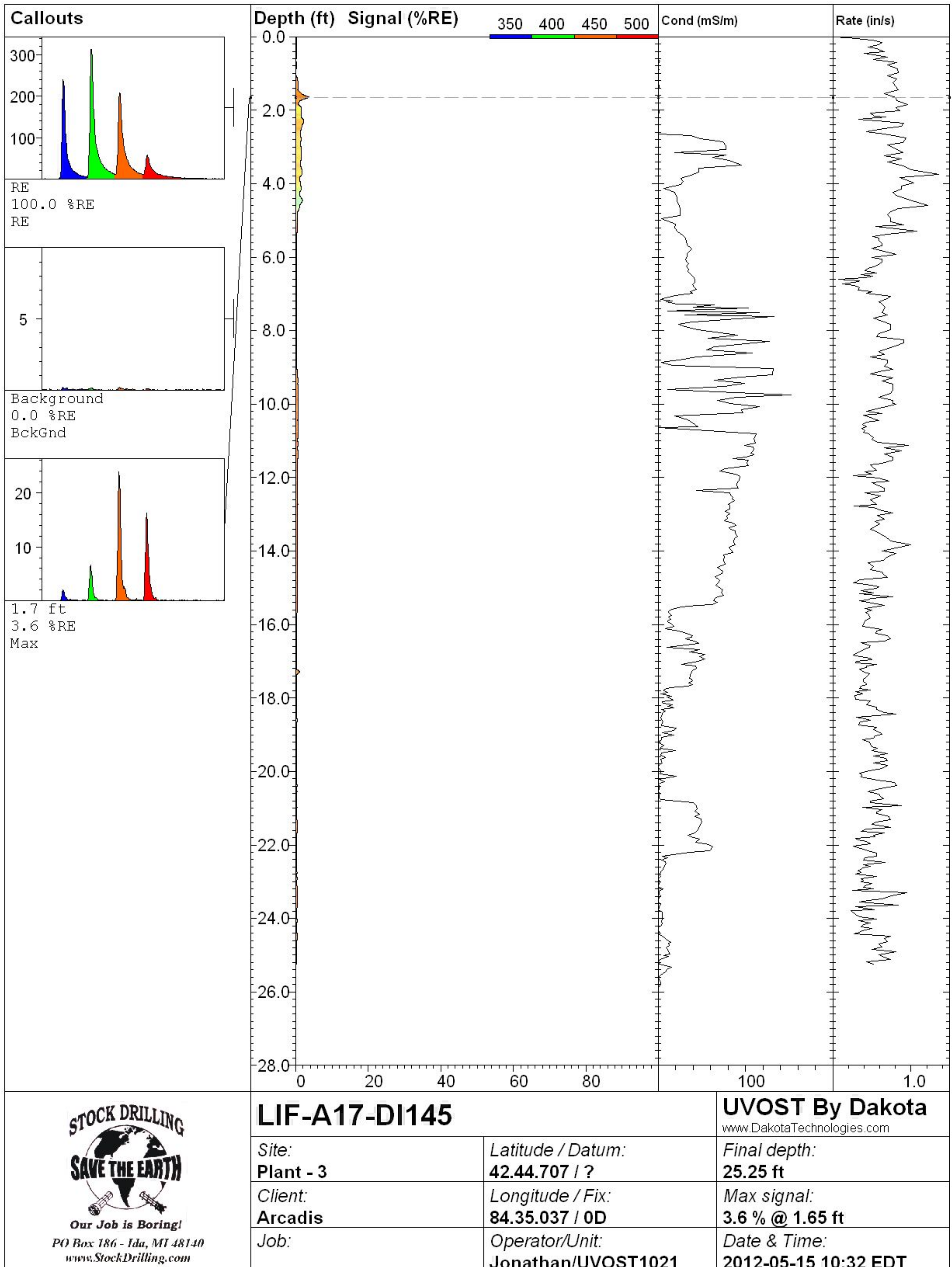
Longitude / Fix:
84.35.049 / 0D

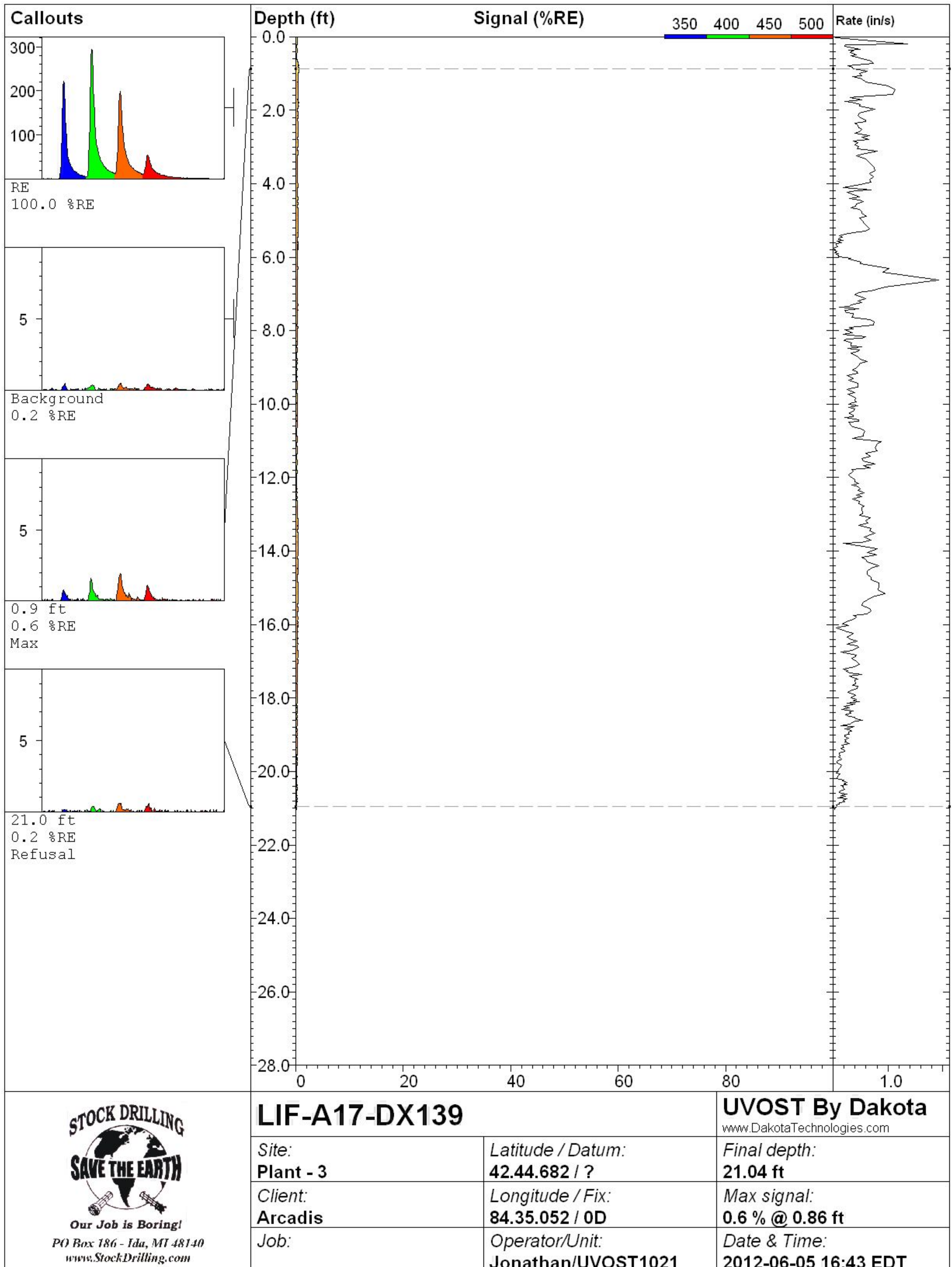
Max signal:
4.4 % @ 0.27 ft

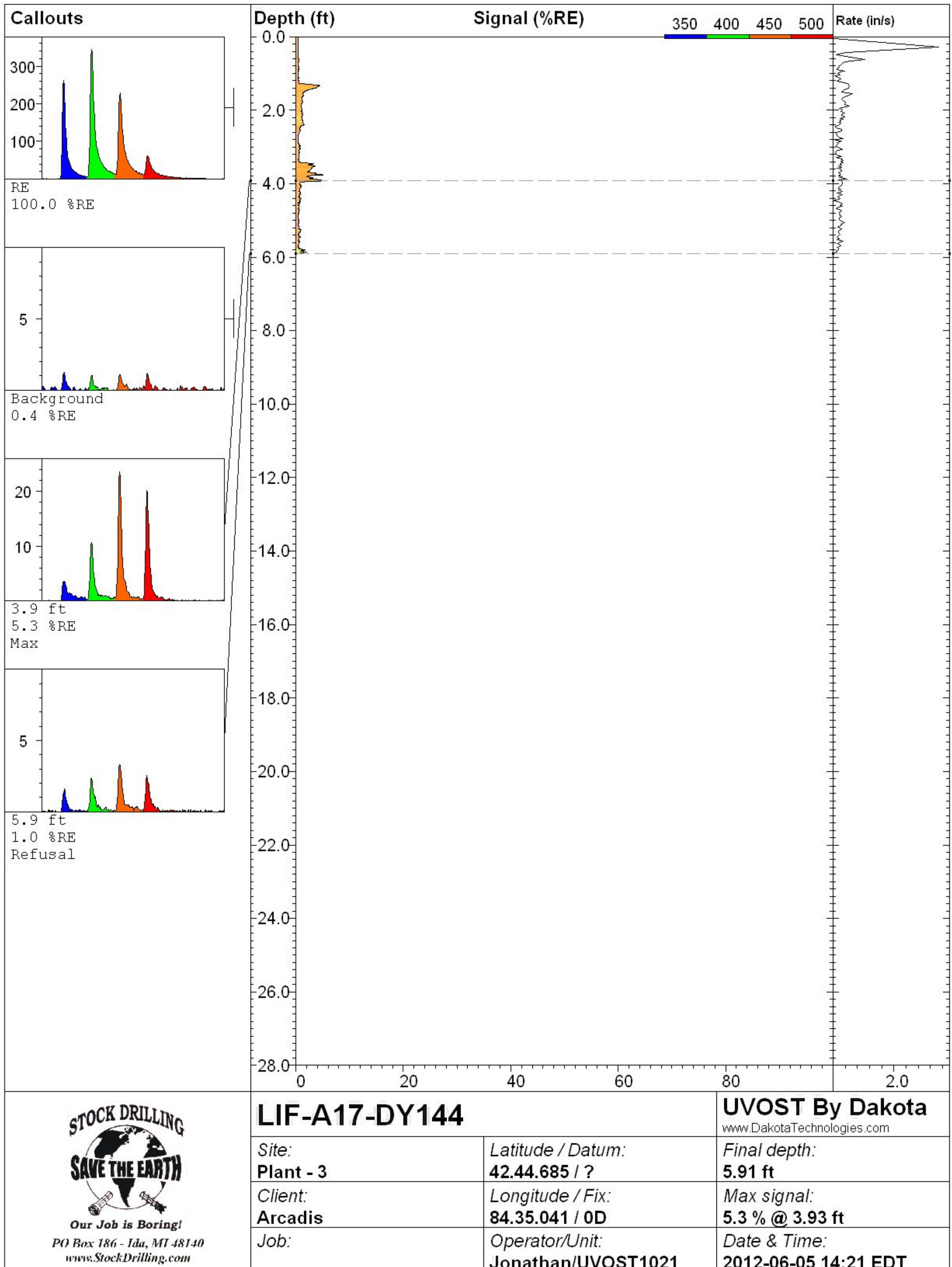
Job:

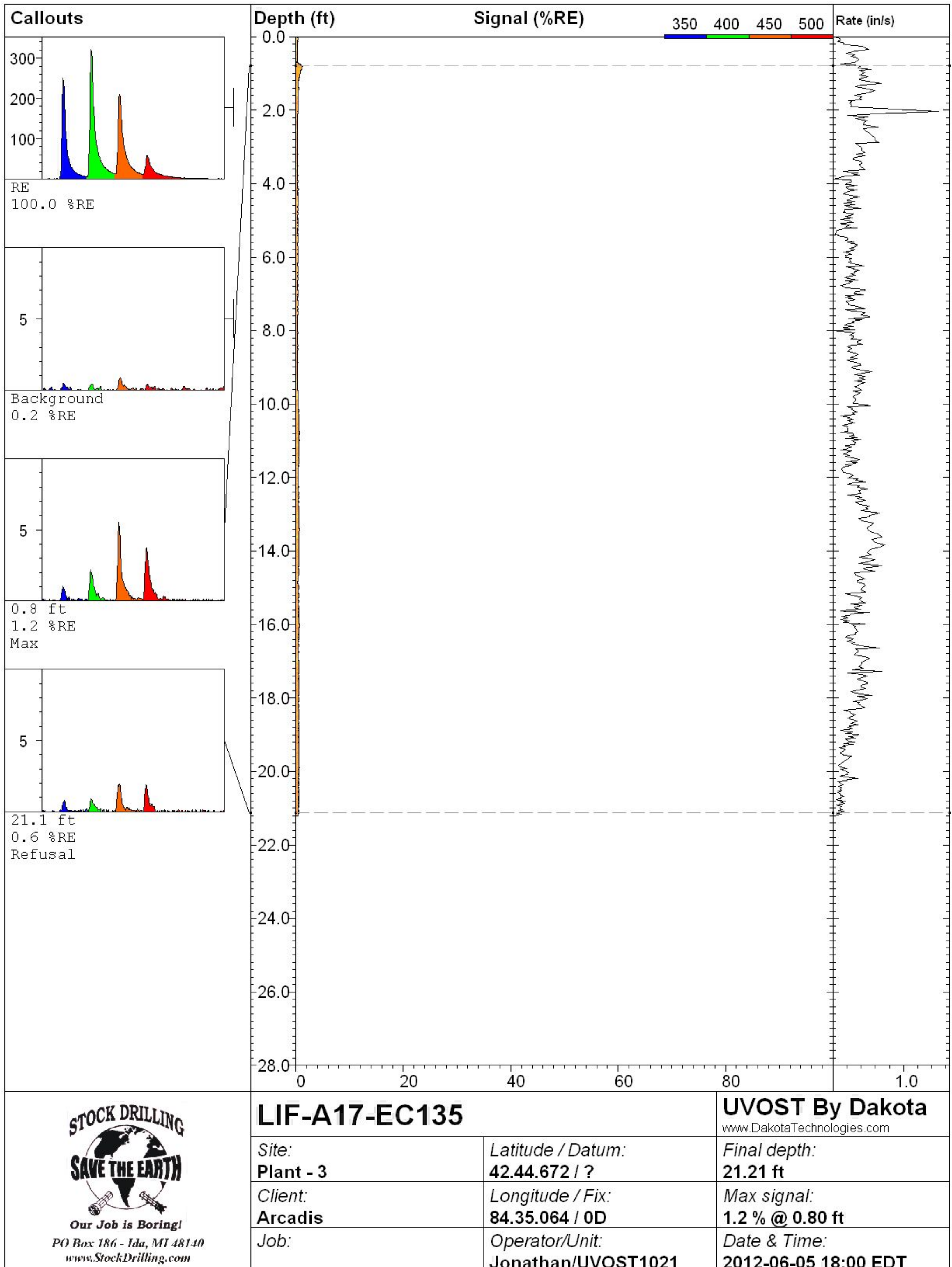
Operator/Unit:
Jonathan/UVOST1021

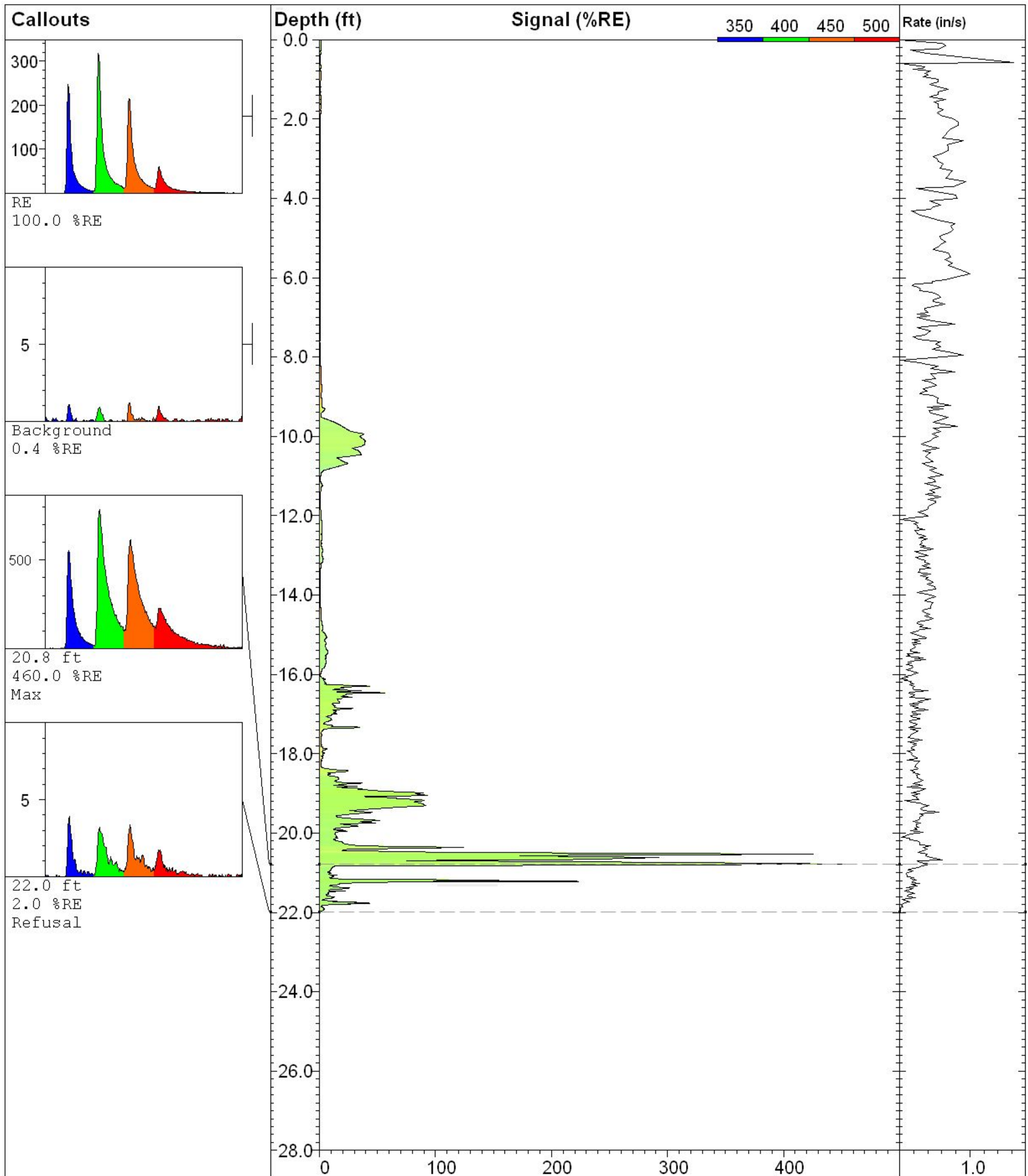
Date & Time:
2012-05-14 13:45 EDT











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LIF-A17-EC140

UVOST By Dakota

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Site:
Plant - 3

Latitude / Datum:
42.44.675 / ?

Final depth:
22.00 ft

Client:
Arcadis

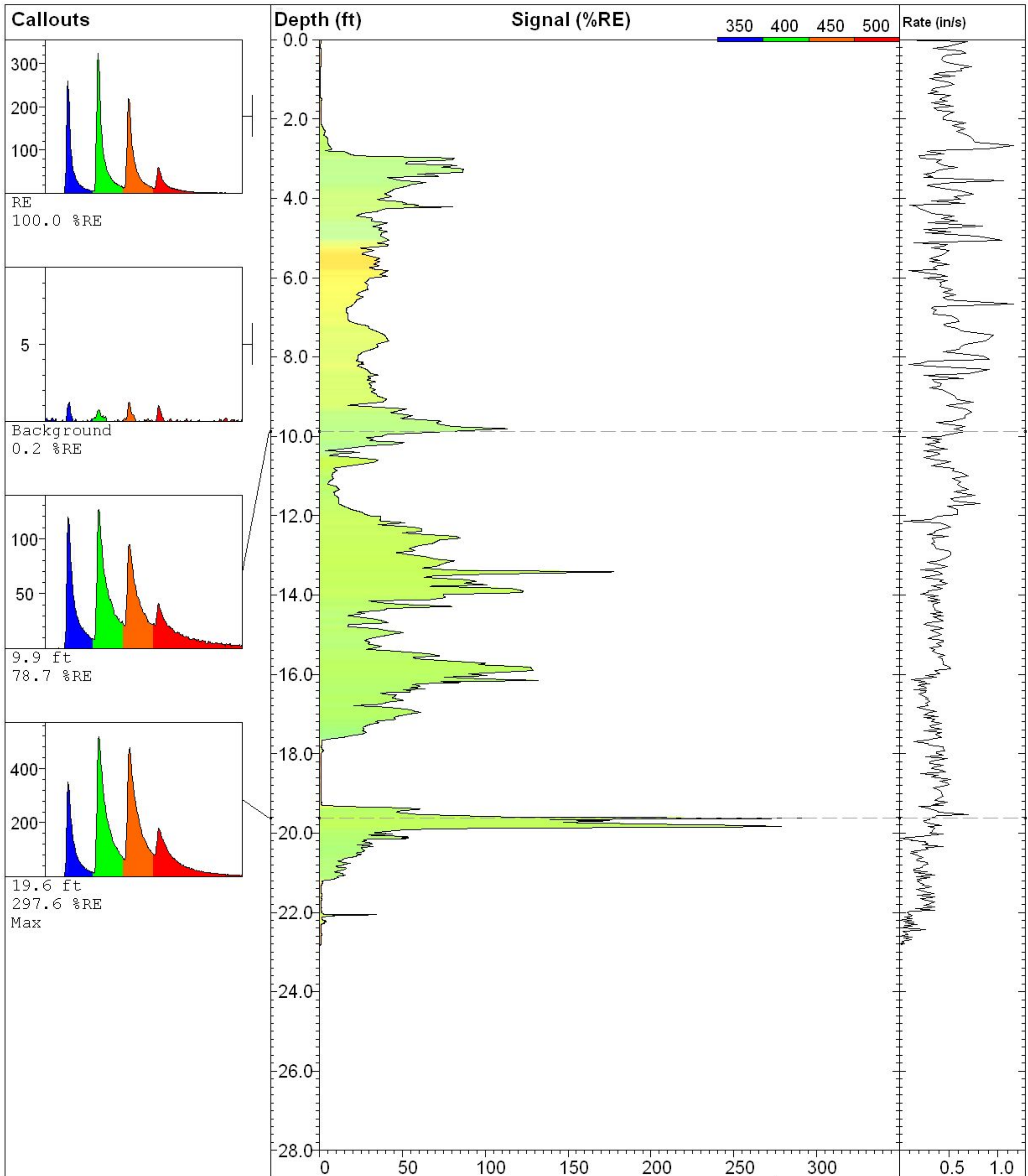
Longitude / Fix:
84.35.051 / 0D

Max signal:
460.0 % @ 20.79 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-06-05 13:01 EDT



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LIF-A17-EC143

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 3

Latitude / Datum:
42.44.674 / ?

Final depth:
22.83 ft

Client:
Arcadis

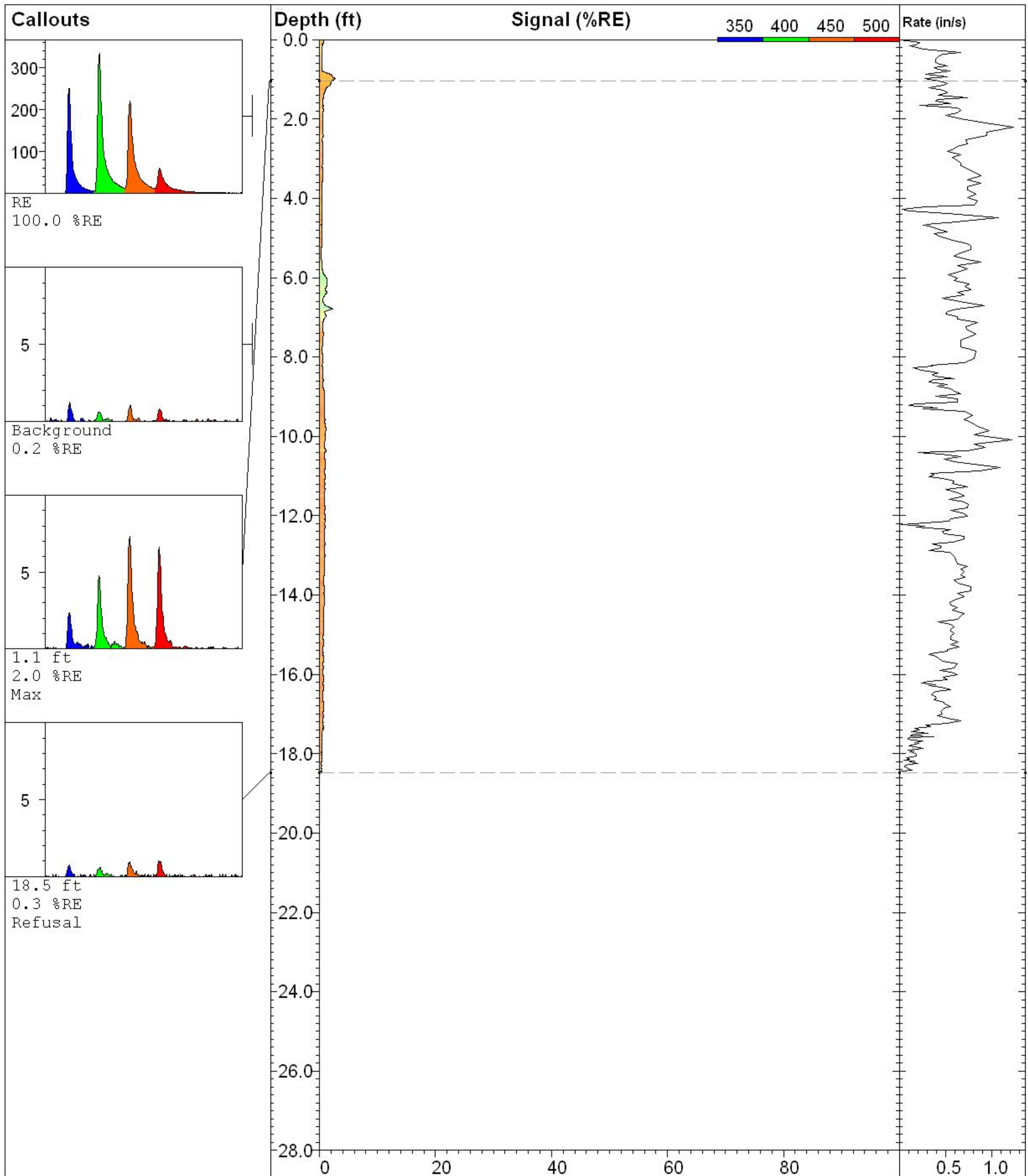
Longitude / Fix:
84.35.045 / 0D

Max signal:
297.6 % @ 19.63 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-06-05 10:37 EDT



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LIF-A17-EC147

Site:
Plant - 3

Client:
Arcadis

Job:

Latitude / Datum:
42.44.675 / ?

Longitude / Fix:
84.35.036 / 0D

Operator/Unit:
Jonathan/UVOST1021

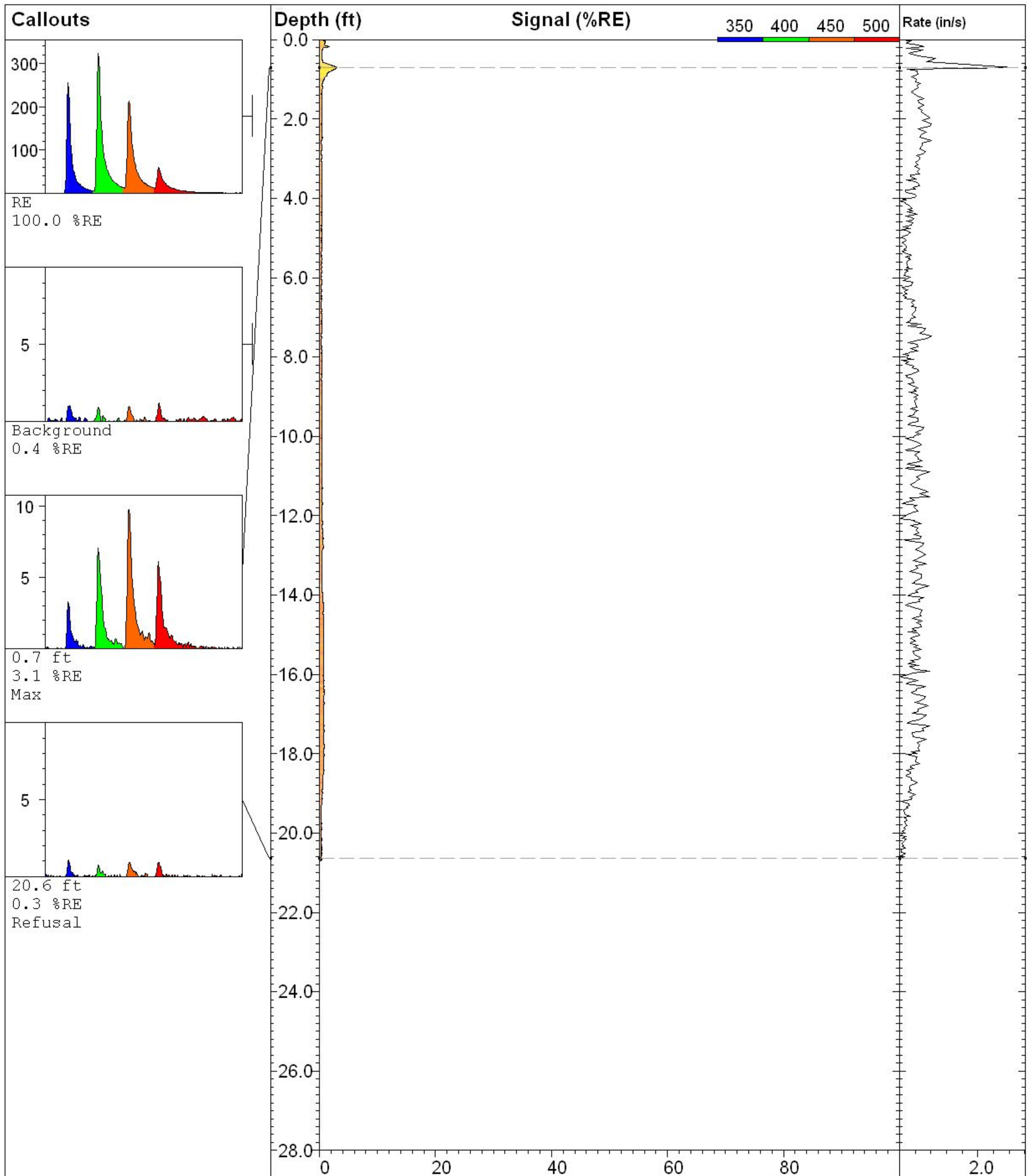
UVOST By Dakota

www.DakotaTechnologies.com

Final depth:
18.49 ft

Max signal:
2.7 % @ 0.98 ft

Date & Time:
2012-06-05 14:48 EDT



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LIF-A17-EF144

UVOST By Dakota

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Site:
Plant - 3

Latitude / Datum:
42.44.671 / ?

Final depth:
20.71 ft

Client:
Arcadis

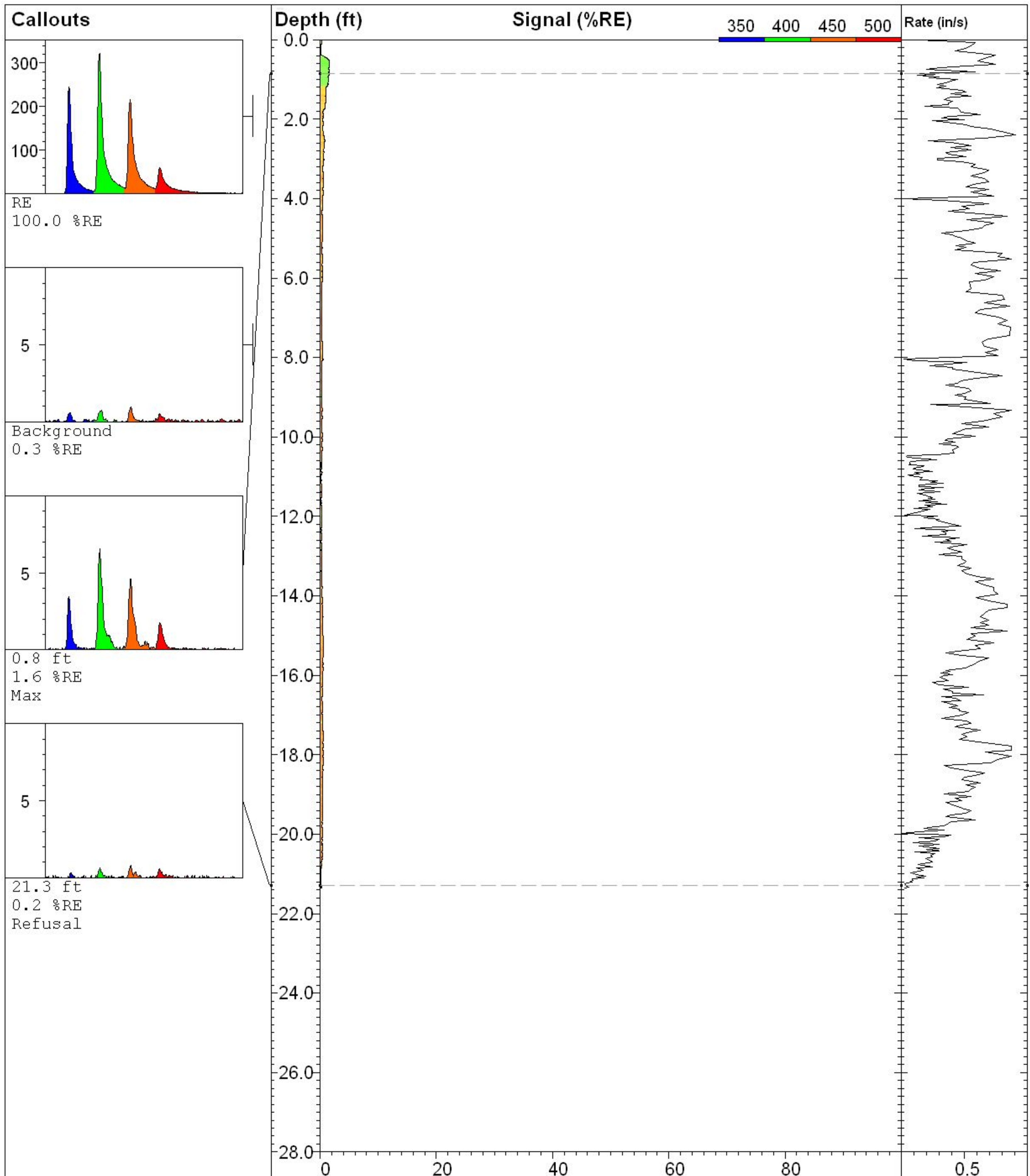
Longitude / Fix:
84.35.033 / 0D

Max signal:
3.1 % @ 0.70 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-06-05 11:25 EDT



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LIF-A17-EI139

UVOST By Dakota

www.DakotaTechnologies.com

Site:
Plant - 3

Latitude / Datum:
42.44.665 / ?

Final depth:
21.36 ft

Client:
Arcadis

Longitude / Fix:
84.35.052 / 0D

Max signal:
1.6 % @ 0.84 ft

Job:

Operator/Unit:
Jonathan/UVOST1021

Date & Time:
2012-06-05 16:04 EDT



Appendix E 1

Hydraulic Conductivity Analyses:
Aqtesolv Slug Testing Data

Table E-1. Slug Test Data Analysis Summary Table,
Racer Lansing
Lansing, Michigan

Observation Well ID	Estimated Hydraulic Conductivity (cm/s)			Unconfined Average Hydraulic Conductivity (cm/s)	Screened Interval (ft bgs)	Screen Conditions	General Saturated Zone Geologic Description
	Unconfined Solutions						
	Bouwer and Rice (1976; Bouwer 1989)	Dagan (1978)	KGS (Hyder 1994)				
CH-14-RO							
Test 1	4.9E-04	NA	NA	5.2E-04	7-12	C1	Fine Sand
Test 2	5.5E-04	NA	NA				
P3-SB-07							
Test 1	2.5E-05	NA	2.5E-05	2.5E-05	11-16	S	Silt
P3-SB-28							
Test 1	4.0E-04	NA	5.3E-04	4.7E-04	8-13	S	Fine to Medium Sand
Total Area Geometric Mean				1.8E-04	Plant 3		
MW-12-09							
Test 1	1.5E-02	NA	NA	1.5E-02	14-19	S	Fine Sand
Test 2	1.4E-02	NA	NA				
MW-12-17							
Test 1	3.6E-03	NA	NA	3.8E-03	9.5-14.5	C1	Fine to Medium Sand with Pebbles
Test 2	3.9E-03	NA	NA				
P2-SB-20							
Test 1	NA	NA	NA	NA	8-13		
Test 2	NA	NA	NA				
Total Area Geometric Mean				7.4E-03	Plant 2		

cm/s - centimeters per second

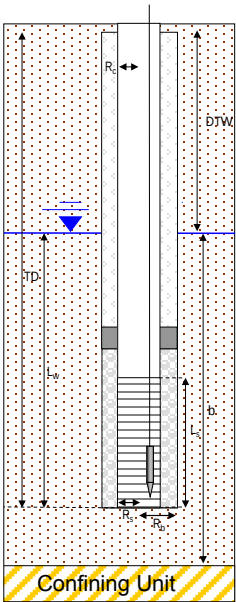
ft - feet

NA - not applicable

Screen Conditions

C1 - Well screen fully submerged under static conditions. Induced change in head lowered water table within screened interval. Minor filter pack drainage observed.

S - Well screen fully submerged during static and induced head conditions.



Well Ls Lw Rs Rb Rc DTW TD b '

All units in ft

L_s True screen length
L_w Length of water column in Well (TD-SWL)
R_s Screen radius
R_b Radius of filter Pack or borehole
R_c Casing radius
DTW Static depth to water
TD Total depth of well/screen from reference point
b Saturated thickness of aquifer

DTW Static depth to water

References

Bouwer, H., 1989. The Bouwer and Rice slug test--an update, Ground Water, vol. 27, no. 3, pp. 304-309.

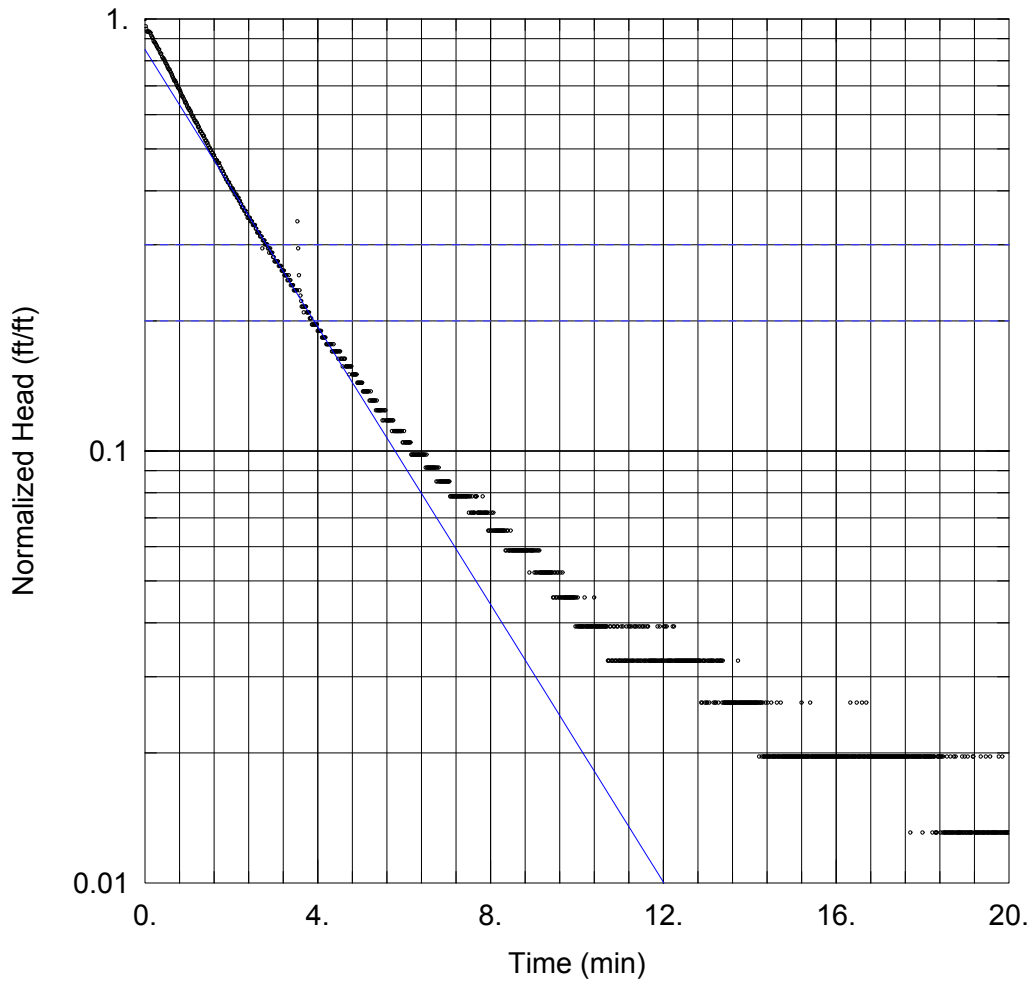
Bouwer, H. and R.C. Rice, 1976. A slug test method for determining hydraulic conductivity of unconfined aquifers with completely or partially penetrating wells, Water Resources Research, vol. 12, no. 3, pp. 423-428.

Butler, J.J., Jr., 1998. *The Design, Performance, and Analysis of Slug Tests*, Lewis Publishers, Boca Raton, 252p.

Dagan, G., 1978. A note on packer, slug, and recovery tests in unconfined aquifers, Water Resources Research, vol. 14, no. 5, pp. 929-934.

Hvorslev, M.J., 1951. Time Lag and Soil Permeability in Ground-Water Observations, Bull. No. 36, Waterways Exper. Sta. Corps of Engrs, U.S. Army, Vicksburg, Mississippi, pp. 1-50.

Hyder, Z., J.J. Butler, Jr., C.D. McElwee and W. Liu, 1994. Slug tests in partially penetrating wells, Water Resources Research, vol. 30, no. 11, pp. 2945-2957.



CH-14-RO_TEST 1

Data Set: C:\...\CH-14-RO_Test 1_B&R.aqt
Date: 03/21/13

Time: 08:51:29

PROJECT INFORMATION

Company: ARCADIS
Client: RACER Lansing
Location: Lansing
Test Well: CH-14-RO
Test Date: 2/15/2013

AQUIFER DATA

Saturated Thickness: 4.27 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (CH-14-RO)

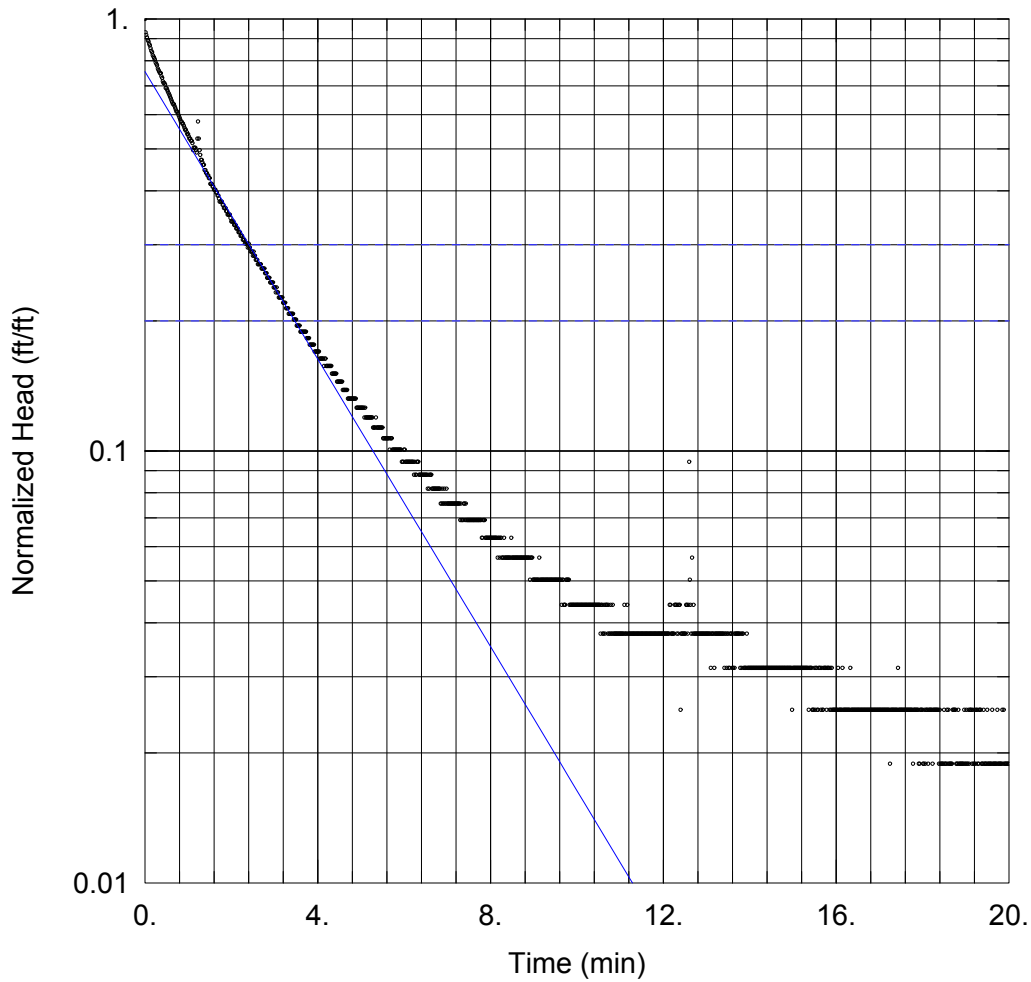
Initial Displacement: 1.53 ft
Total Well Penetration Depth: 4.27 ft
Casing Radius: 0.083 ft

Static Water Column Height: 4.27 ft
Screen Length: 3. ft
Well Radius: 0.34 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
 $K = 0.00049$ cm/sec

Solution Method: Bouwer-Rice
 $y_0 = 1.3$ ft



CH-14-RO_TEST 2

Data Set: C:\...\CH-14-RO_Test 2_B&R.aqt
Date: 03/21/13

Time: 08:52:02

PROJECT INFORMATION

Company: ARCADIS
Client: RACER Lansing
Location: Lansing
Test Well: CH-14-RO
Test Date: 2/15/2013

AQUIFER DATA

Saturated Thickness: 4.27 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (CH-14-RO)

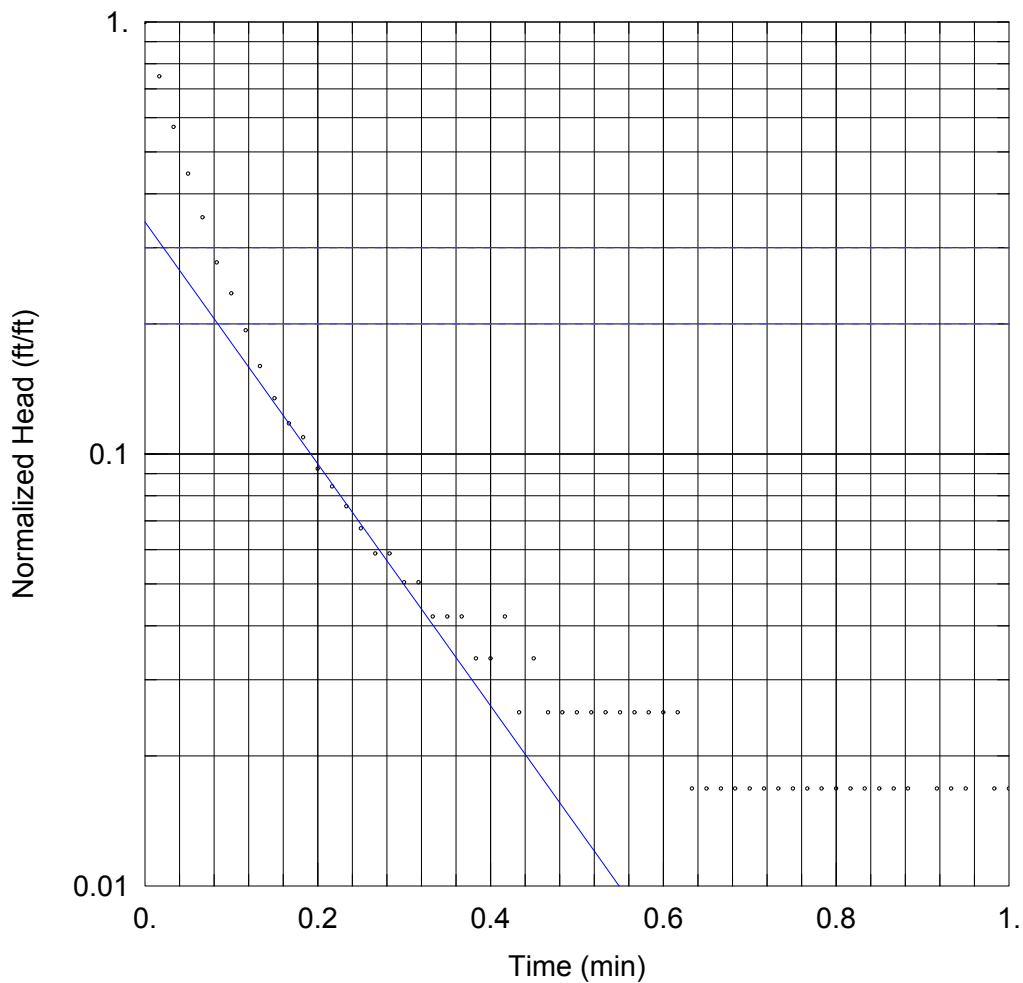
Initial Displacement: 1.59 ft
Total Well Penetration Depth: 4.27 ft
Casing Radius: 0.083 ft

Static Water Column Height: 4.27 ft
Screen Length: 3. ft
Well Radius: 0.34 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
 $K = 0.00055$ cm/sec

Solution Method: Bouwer-Rice
 $y_0 = 1.2$ ft



MW-12-09 TEST 1

Data Set: C:\...MW-12-09_Test 1_B&R.aqt
Date: 03/21/13

Time: 08:52:30

PROJECT INFORMATION

Company: ARCADIS
Client: RACER
Project: B0064479
Location: Lansing, Michigan
Test Well: MW-12-09
Test Date: 2/21/13

AQUIFER DATA

Saturated Thickness: 6.91 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-12-09)

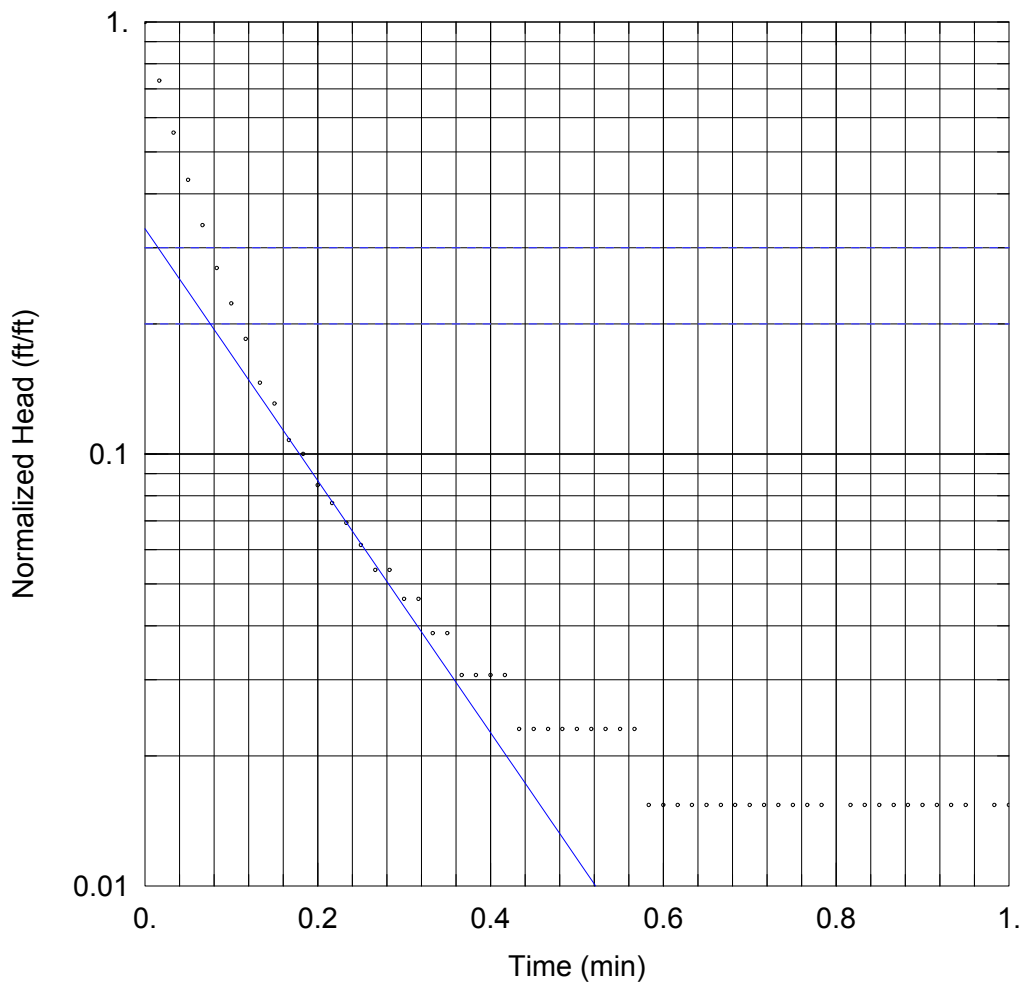
Initial Displacement: 1.19 ft
Total Well Penetration Depth: 6.91 ft
Casing Radius: 0.083 ft

Static Water Column Height: 6.91 ft
Screen Length: 5. ft
Well Radius: 0.34 ft
Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Unconfined
K = 0.00687 cm/sec

Solution Method: Bouwer-Rice
 y_0 = 0.4098 ft



MW-12-09 TEST 2

Data Set: C:\...\MW-12-09_Test 2_B&R.aqt
 Date: 03/21/13

Time: 08:52:54

PROJECT INFORMATION

Company: ARCADIS
 Client: RACER
 Project: B0064479
 Location: Lansing, Michigan
 Test Well: MW-12-09
 Test Date: 2/21/13

AQUIFER DATA

Saturated Thickness: 6.91 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-12-09)

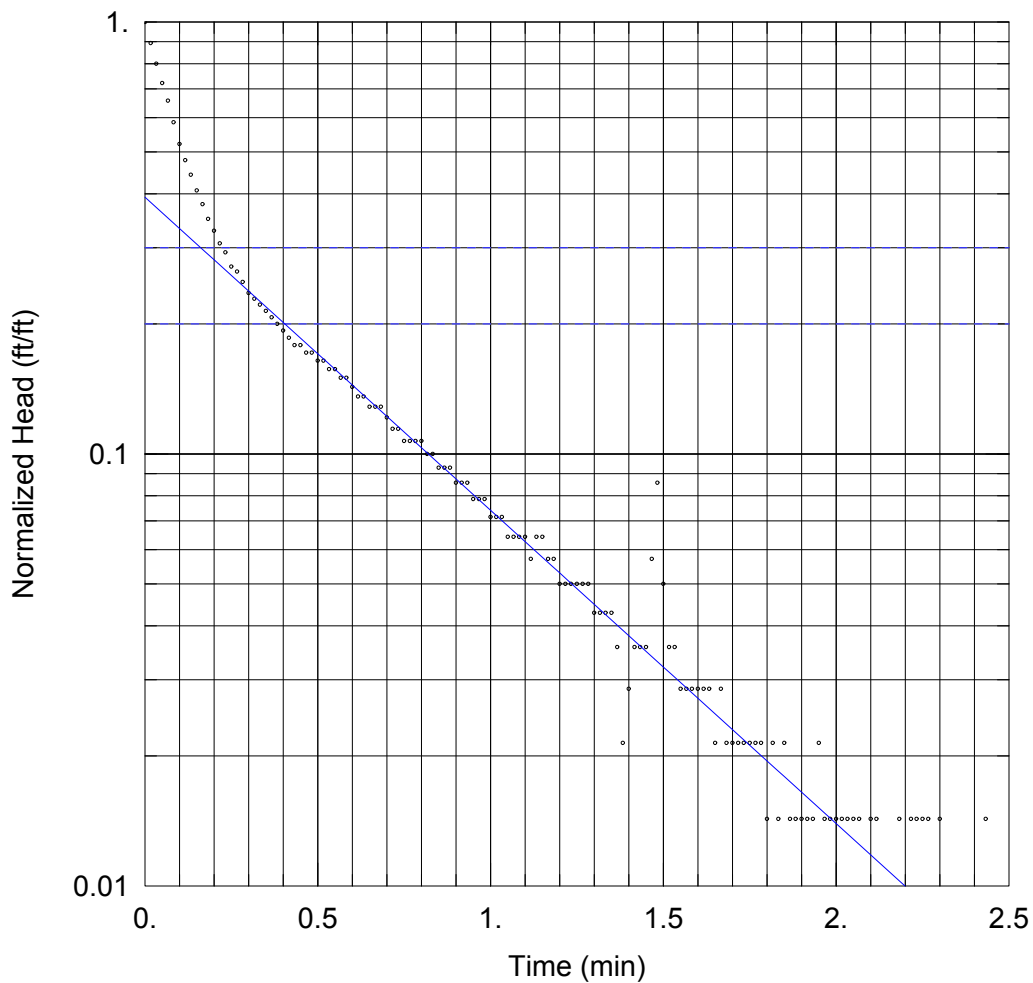
Initial Displacement: 1.3 ft
 Total Well Penetration Depth: 6.91 ft
 Casing Radius: 0.083 ft

Static Water Column Height: 6.91 ft
 Screen Length: 5. ft
 Well Radius: 0.34 ft
 Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Unconfined
 $K = 0.006551$ cm/sec

Solution Method: Bouwer-Rice
 $y_0 = 0.4319$ ft



MW-12-17 TEST 1

Data Set: C:\...\MW-12-17_Test 1_B&R.aqt
 Date: 03/21/13

Time: 08:53:18

PROJECT INFORMATION

Company: ARCADIS
 Client: RACER
 Project: B0064479
 Location: Lansing, Michigan
 Test Well: MW-12-17
 Test Date: 2/21/13

AQUIFER DATA

Saturated Thickness: 5.42 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-12-17)

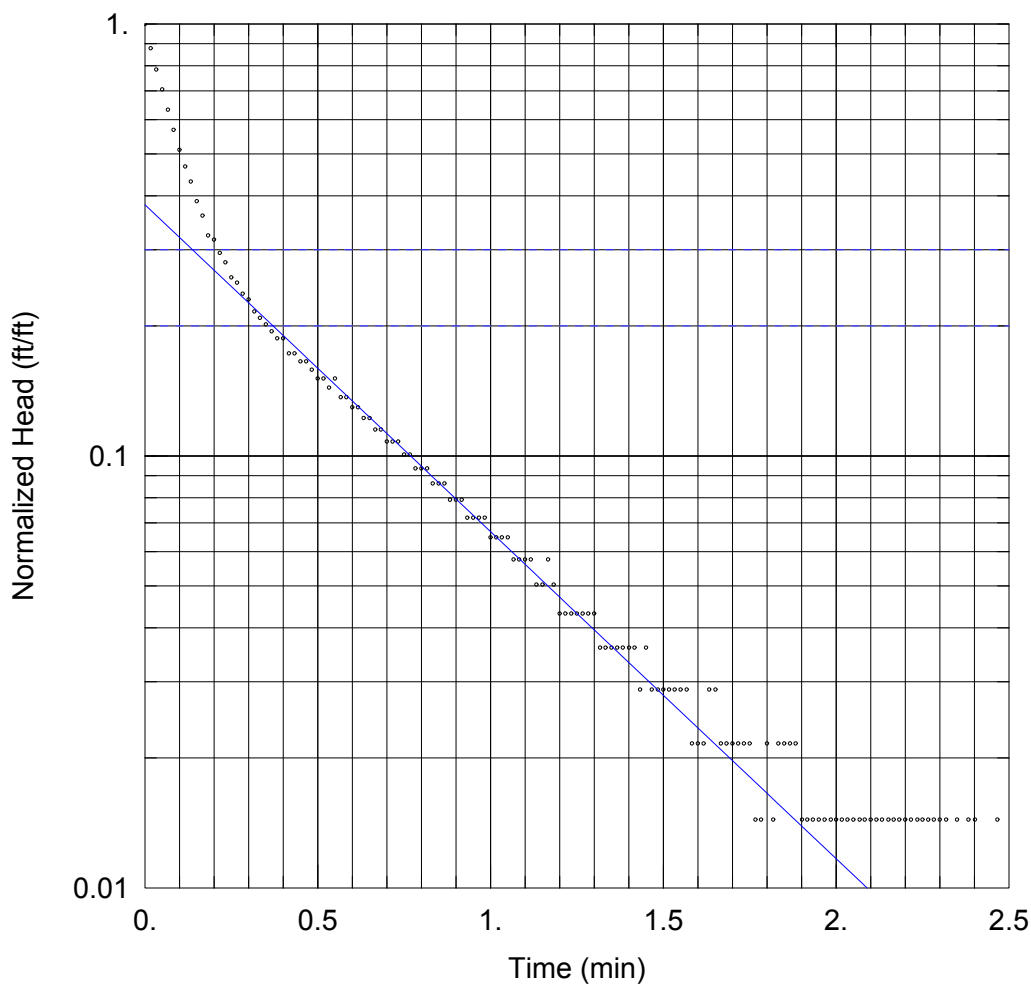
Initial Displacement: 1.4 ft
 Total Well Penetration Depth: 5.42 ft
 Casing Radius: 0.083 ft

Static Water Column Height: 5.42 ft
 Screen Length: 5. ft
 Well Radius: 0.34 ft
 Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Unconfined
 $K = 0.0036$ cm/sec

Solution Method: Bouwer-Rice
 $y_0 = 0.55$ ft



MW-12-17 TEST 2

Data Set: C:\...\MW-12-17_Test 2_B&R.aqt
 Date: 03/21/13

Time: 08:53:44

PROJECT INFORMATION

Company: ARCADIS
 Client: RACER
 Project: B0064479
 Location: Lansing, Michigan
 Test Well: MW-12-17
 Test Date: 2/21/13

AQUIFER DATA

Saturated Thickness: 5.42 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-12-17)

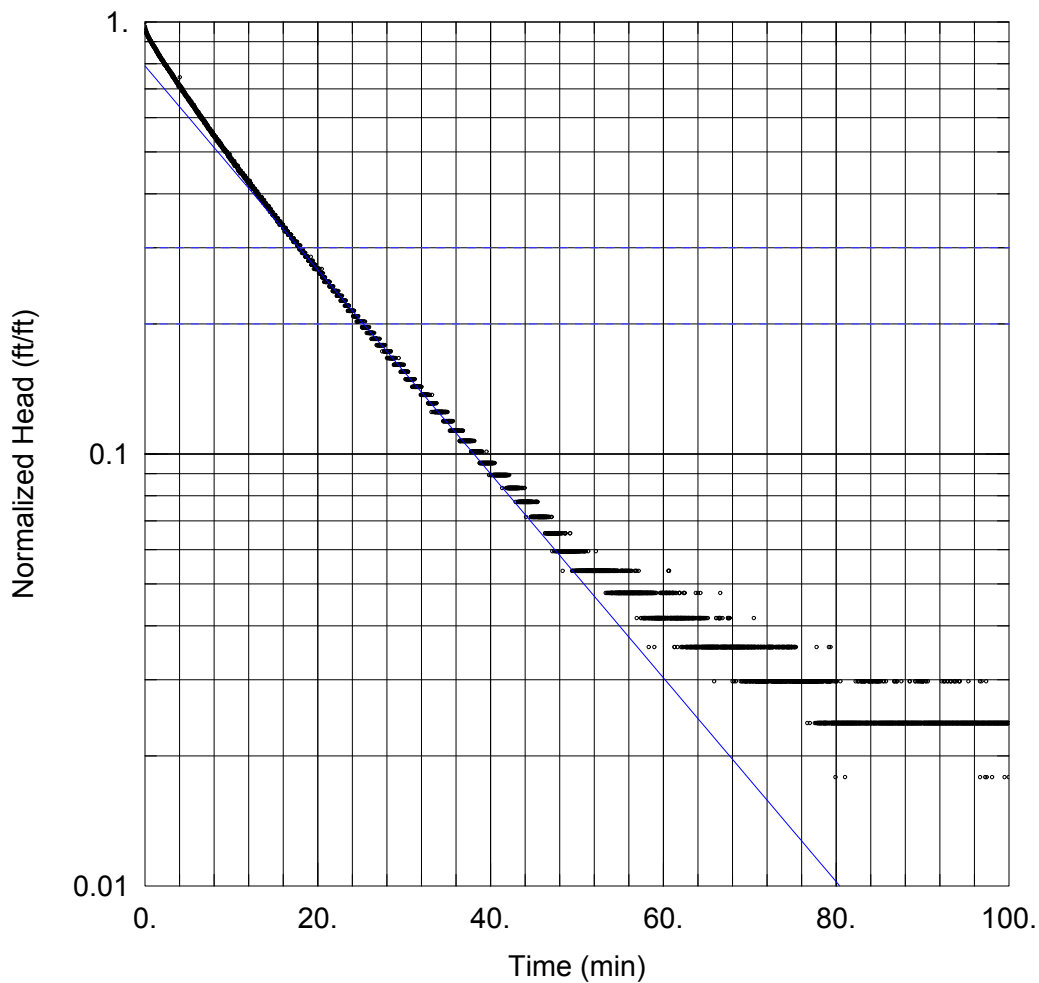
Initial Displacement: 1.39 ft
 Total Well Penetration Depth: 5.42 ft
 Casing Radius: 0.083 ft

Static Water Column Height: 5.42 ft
 Screen Length: 5. ft
 Well Radius: 0.34 ft
 Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Unconfined
 $K = 0.0039$ cm/sec

Solution Method: Bouwer-Rice
 $y_0 = 0.53$ ft



P2-SB-20 TEST 1

Data Set: C:\...\P2-SB-20_Test 1_B&R.aqt
 Date: 03/21/13

Time: 08:55:02

PROJECT INFORMATION

Company: ARCADIS
 Client: RACER
 Project: B0064479
 Location: Lansing, Michigan
 Test Well: P2-SB-20
 Test Date: 2/21/13

AQUIFER DATA

Saturated Thickness: 1.5 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (P2-SB-20)

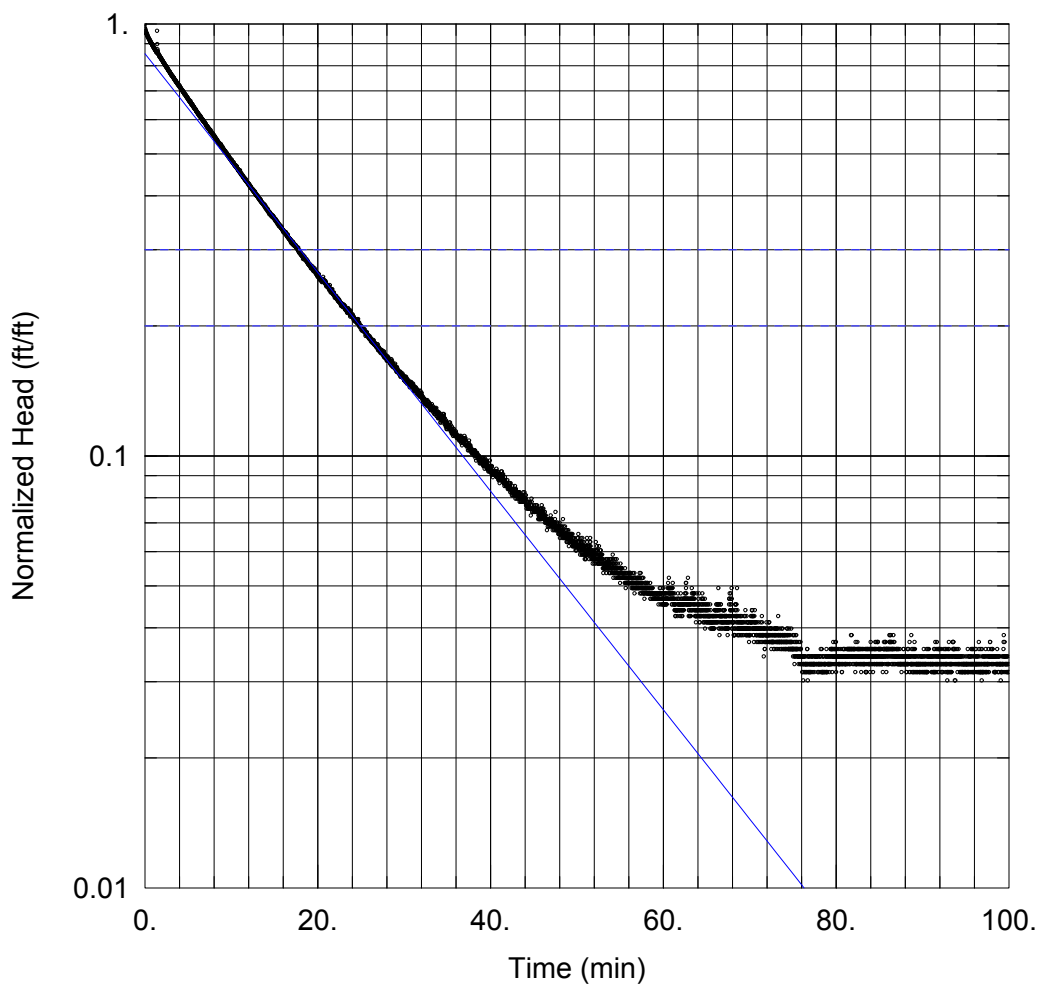
Initial Displacement: 1.68 ft
 Total Well Penetration Depth: 3.83 ft
 Casing Radius: 0.083 ft

Static Water Column Height: 3.83 ft
 Screen Length: 1.5 ft
 Well Radius: 0.34 ft
 Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Confined
 $K = 0.0001001$ cm/sec

Solution Method: Bouwer-Rice
 $y_0 = 1.329$ ft



P2-SB-20 TEST 2

Data Set: C:\...\P2-SB-20_Test 2_B&R.aqt
 Date: 03/21/13

Time: 08:55:27

PROJECT INFORMATION

Company: ARCADIS
 Client: RACER
 Project: B0064479
 Location: Lansing, Michigan
 Test Well: P2-SB-20
 Test Date: 2/21/13

AQUIFER DATA

Saturated Thickness: 1.5 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (P2-SB-20)

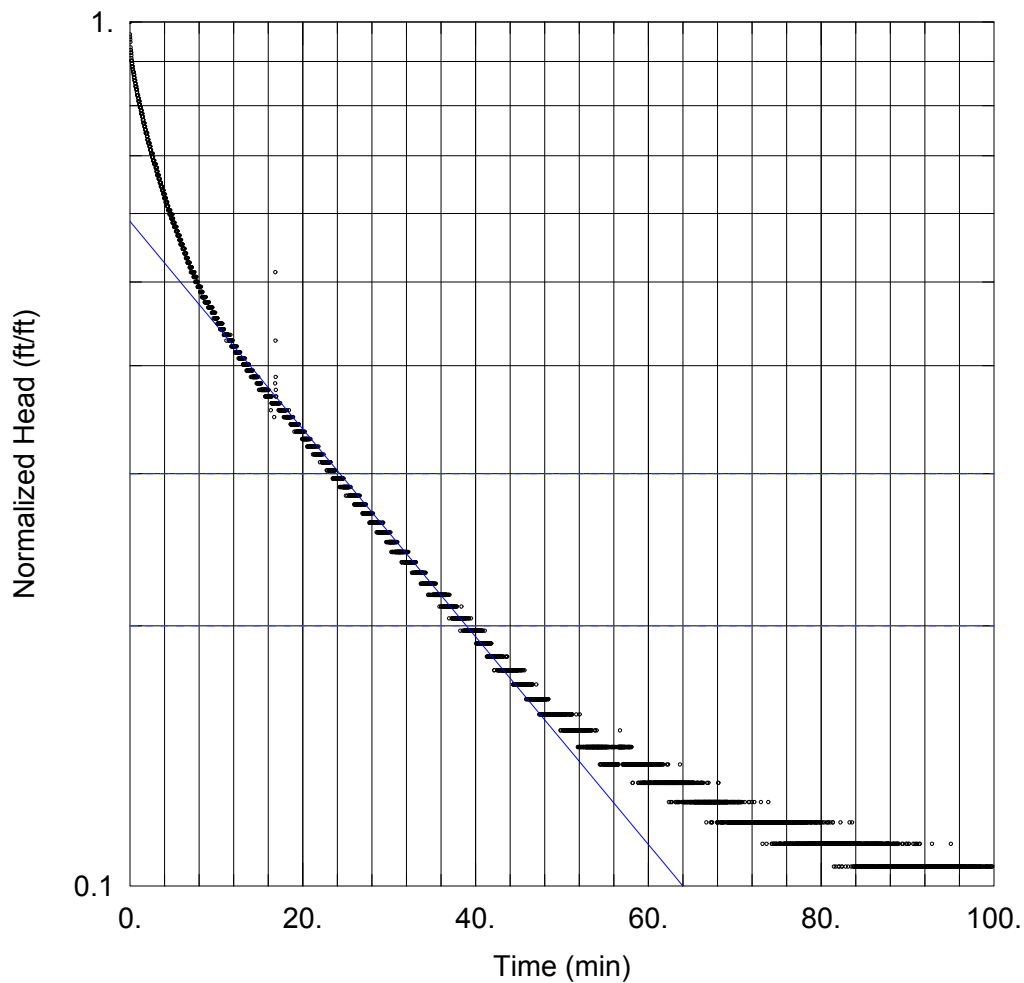
Initial Displacement: 1.68 ft
 Total Well Penetration Depth: 3.83 ft
 Casing Radius: 0.083 ft

Static Water Column Height: 3.83 ft
 Screen Length: 1.5 ft
 Well Radius: 0.34 ft
 Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Confined
 $K = 0.0001074$ cm/sec

Solution Method: Bouwer-Rice
 $y_0 = 1.433$ ft



P3-SB-07 TEST 1

Data Set: C:\...\P3-SB-07_Test 1_B&R.aqt
Date: 03/21/13

Time: 08:54:08

PROJECT INFORMATION

Company: ARCADIS
Client: RACER
Project: B0064479
Location: Lansing, Michigan
Test Well: P3-SB-07
Test Date: 2/21/13

AQUIFER DATA

Saturated Thickness: 9.58 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (P3-SB-07)

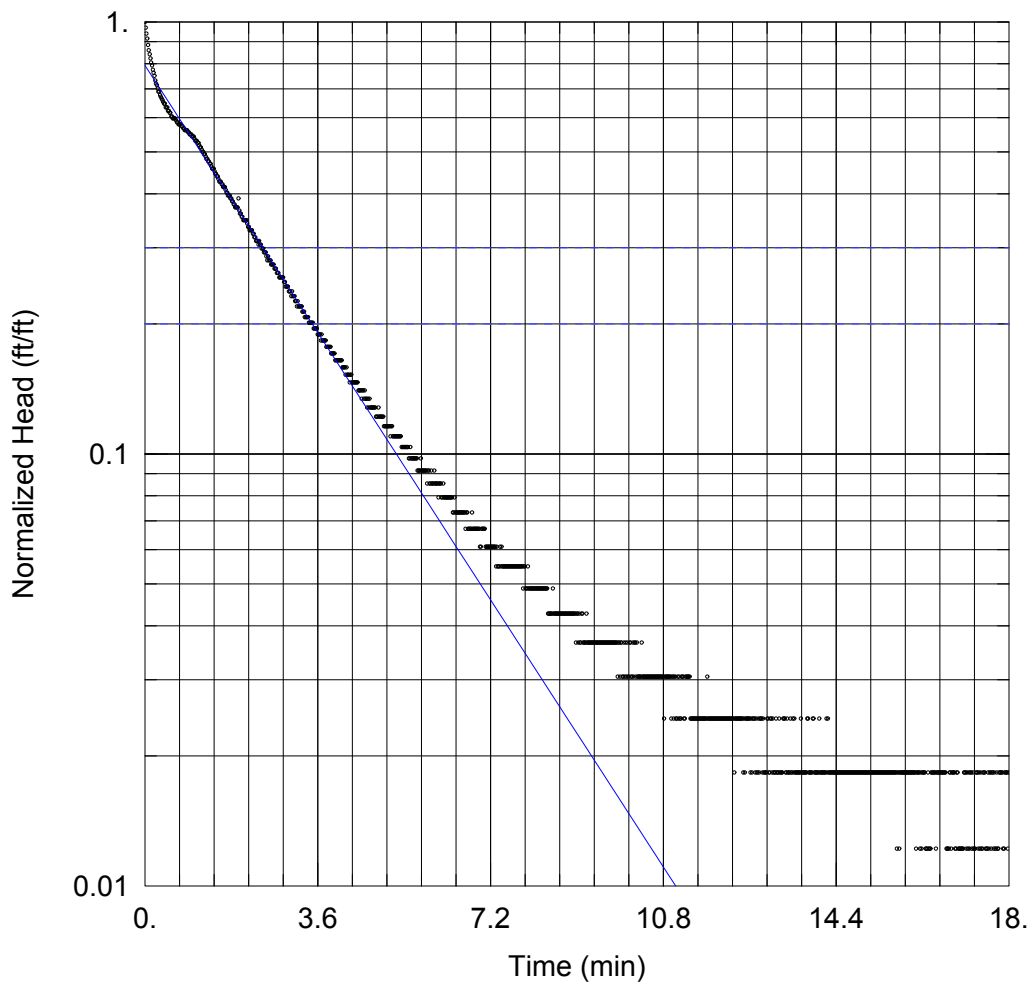
Initial Displacement: 1.52 ft
Total Well Penetration Depth: 9.58 ft
Casing Radius: 0.083 ft

Static Water Column Height: 9.58 ft
Screen Length: 5. ft
Well Radius: 0.34 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
 $K = 2.5E-5$ cm/sec

Solution Method: Bouwer-Rice
 $y_0 = 0.8932$ ft



P3-SB-28 TEST 1

Data Set: C:\...\P3-SB-28_Test 1_B&R.aqt
 Date: 03/21/13

Time: 08:54:37

PROJECT INFORMATION

Company: ARCADIS
 Client: RACER
 Project: B0064479
 Location: Lansing, Michigan
 Test Well: P3-SB-28
 Test Date: 2/21/13

AQUIFER DATA

Saturated Thickness: 9.62 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (P3-SB-28)

Initial Displacement: 1.64 ft
 Total Well Penetration Depth: 9.62 ft
 Casing Radius: 0.083 ft

Static Water Column Height: 9.62 ft
 Screen Length: 4. ft
 Well Radius: 0.34 ft
 Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Unconfined
 $K = 0.0004$ cm/sec

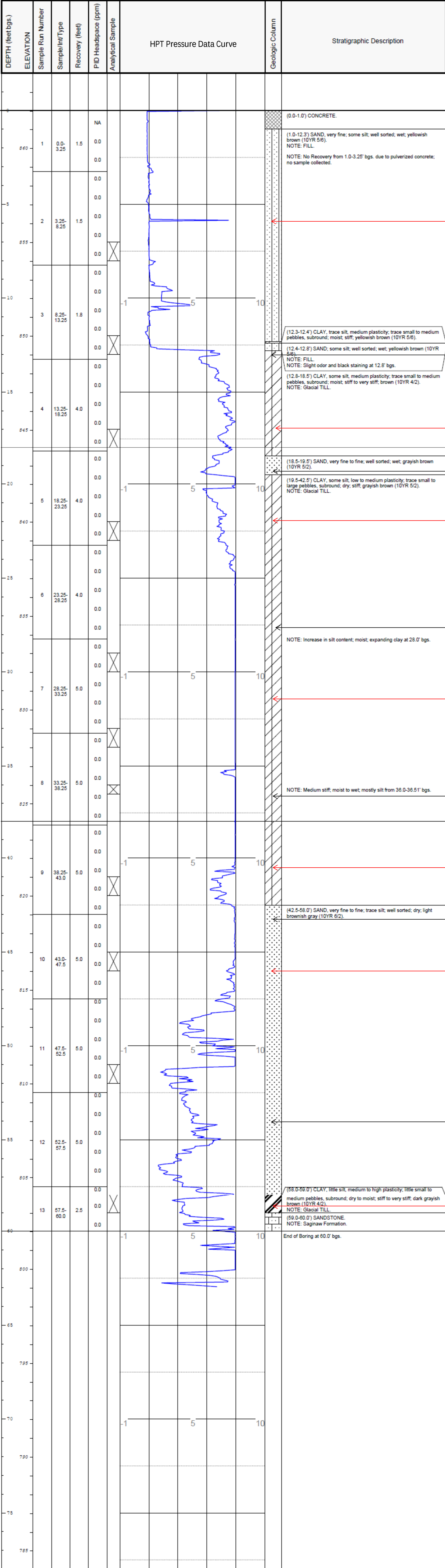
Solution Method: Bouwer-Rice
 $y_0 = 1.3$ ft



Appendix E 2

Hydraulic Conductivity Analyses:
2012 HPT/VAP Sieve Analysis
Laboratory

Date Start/Finish: 5/2/2012 Drilling Company: Stock Driller's Name: Chris Drilling Method: Direct Push Sampling Method: 5.0' Dual Tube Rig Type: Geoprobe	Northing: 451016.78 Easting: 13064824.86 Casing Elevation: NA Borehole Depth: 60.0' bgs. Surface Elevation: 862.03 Descriptions By: A. Westhuis	Well/Boring ID: VAP-A5.2-OE129 Client: RACER Trust Location: RACER Lansing 2800 West Saginaw Hwy. Lansing, MI 48909
--	--	---

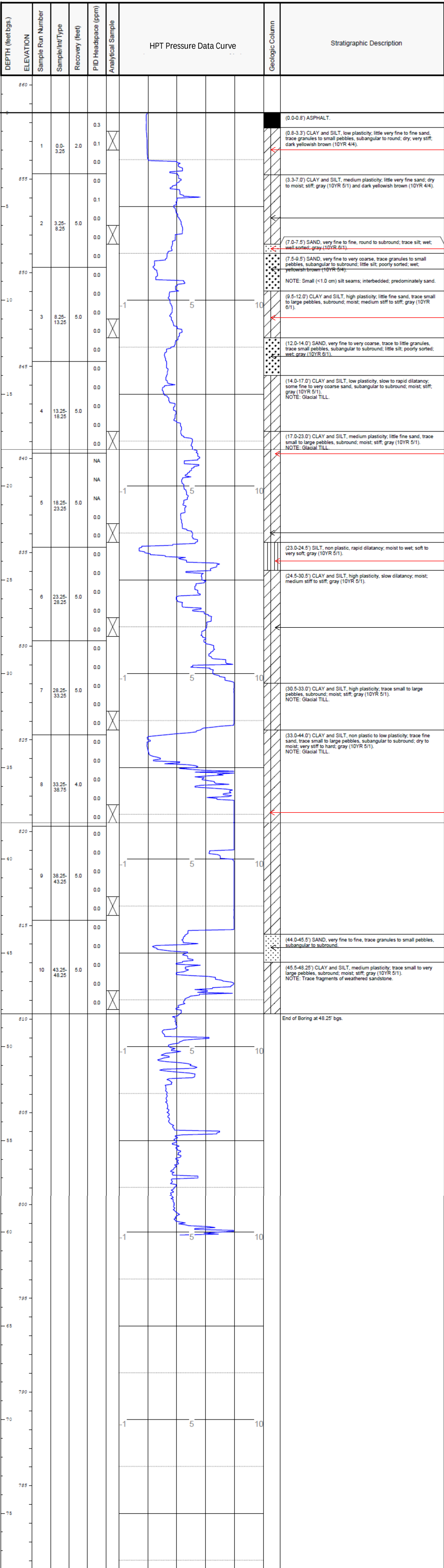


Sieve Analysis

VAP-A5.2-OE129

- VAP-A5.2-OE129_6.0**
SAND, fine, little medium sand, trace coarse sand to fine gravel, subangular to subround; little silt and clay (17.9%); dry; tan.
- VAP-A5.2-OE129_13.0**
SAND, fine to coarse, trace fine gravel; little silt and clay (13.4%); dry; gray.
- VAP-A5.2-OE129_17.0**
SAND, fine to coarse, trace fine to coarse gravel; little silt and clay (11.2%); moist; gray.
- VAP-A5.2-OE129_18.5-19.5**
SAND, fine, little medium sand, trace coarse sand to fine gravel; little silt and clay (18.7%); wet; gray.
- VAP-A5.2-OE129_22.0**
SAND, fine, some medium sand, little coarse sand, trace fine gravel; some silt and clay (24.2%); dry; gray.
- VAP-A5.2-OE129_27.0-28.0**
SAND, fine to coarse, trace fine gravel; little silt and clay (17.8%); moist to dry; gray.
- VAP-A5.2-OE129_31.0-32.0**
CLAY and SILT (38.8%); some fine to medium sand, trace coarse sand to fine gravel; moist; gray.
- VAP-A5.2-OE129_36.0-36.5**
SILT and CLAY (49.9%); some fine sand, little medium sand, trace coarse sand to fine gravel; moist to wet; gray.
- VAP-A5.2-OE129_40.0-41.0**
SAND, coarse to medium, little fine sand, trace fine gravel; trace silt and clay(9.3%); moist; gray.
- VAP-A5.2-OE129_43.0**
SAND, fine, trace medium to coarse sand; little silt and clay (15.4%); dry; gray.
- VAP-A5.2-OE129_46.0**
SAND, fine, trace medium sand to fine gravel; trace silt and clay (3.1%); dry; gray.
- VAP-A5.2-OE129_54.0**
SAND, fine, trace medium sand to fine gravel; trace silt and clay (2.8%); dry; gray.
- VAP-A5.2-OE129_58.0-59.0**
SAND, fine to medium, little coarse sand to fine gravel; little silt and clay (16.2%); moist; gray.

Date Start/Finish: 5/24/2012 - 5/25/2012 Drilling Company: GeoServ Driller's Name: James Drilling Method: Direct Push Sampling Method: 5.0' Dual Tube Rig Type: Geoprobe 8040 DT	Northing: 451566.43 Easting: 13066106.97 Casing Elevation: NA Borehole Depth: 48.25' bgs. Surface Elevation: 858.53 Descriptions By: A. Westhuis	Well/Boring ID: VAP-A5.7-MB257 Client: RACER Trust Location: Lansing, MI
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VAP-A5.7-MB257_1-2
SAND, fine to medium, trace coarse sand to fine gravel; little silt and clay (14.4%) moist to dry; tan.

VAP-A5.7-MB257_5-6
SAND, fine to medium, little coarse sand; trace silt and clay (7.8%); gray.

VAP-A5.7-MB257_7.0-7.5
SAND, fine, little medium sand, trace coarse sand; trace silt and clay (6.6%); moist; gray.

VAP-A5.7-MB257_7.5-9.5
SAND, fine, some medium sand, trace coarse sand to fine gravel; trace silt and clay (4.9%) moist; yellowish brown.

VAP-A5.7-MB257_9.5-12
SAND, fine to medium, trace coarse sand to fine gravel; trace silt and clay (2.7%); moist; gray.

VAP-A5.7-MB257_12-13
SAND, fine, little medium to coarse sand, trace fine gravel; trace silt and clay (7.2%); dry to moist; gray.

VAP-A5.7-MB257_17-18
SAND, fine to medium, trace coarse sand to fine gravel; trace silt and clay (2.2%); moist; gray.

VAP-A5.7-MB257_22-23
SAND, fine to medium, trace coarse sand to fine gravel; trace silt and clay (2.8%); moist to dry; gray.

VAP-A5.7-MB257_23-24.5
CLAY and SILT (64.7%); some fine sand, trace medium sand; moist to wet; gray.

VAP-A5.7-MB257_27-28
SAND, fine, some medium sand, trace coarse sand to fine gravel; trace silt and clay (9.8%); moist to wet; gray.

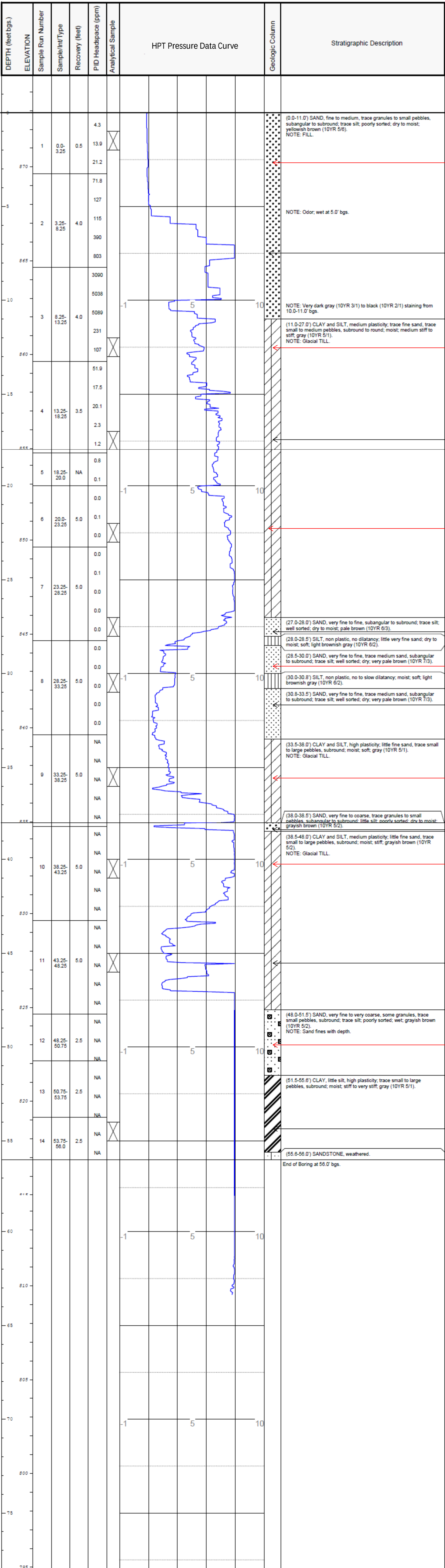
VAP-A5.7-MB257_37-38
SAND, fine, some medium sand, little coarse gravel, trace coarse sand to fine gravel; trace silt and clay (2.1%); dry to moist; gray.

VAP-A5.7-MB257_44-44.5
SAND, fine, some medium sand, little fine gravel, trace coarse sand; trace silt and clay (3.0%); dry.

Sieve Analysis

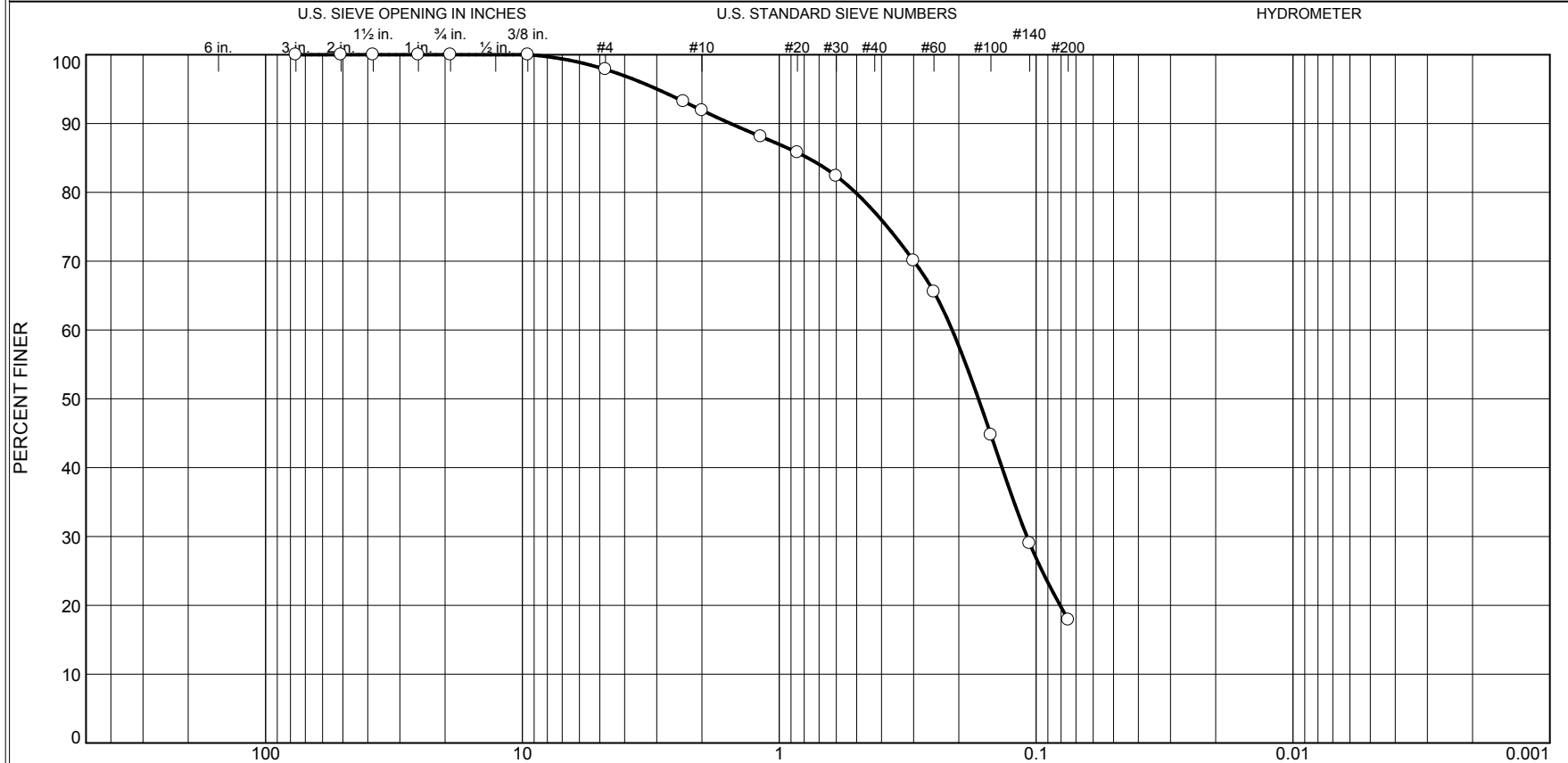
VAP-A5.7-MB257

Date Start/Finish: 6/4/2012 - 6/5/2012 Drilling Company: GeoServ Driller's Name: Emrick Drilling Method: Direct Push Sampling Method: 5.0' Dual Tube Rig Type: Geoprobe 8040 DT	Northing: 450104.19 Easting: 13065626.03 Casing Elevation: NA Borehole Depth: 56.0' bgs Surface Elevation: 872.89 Descriptions By: A. Westhuis	Well/Boring ID: VAP-A9-RR209 Client: RACER Trust Location: Lansing, MI
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- VAP-A9-RR209_2-3**
SAND, fine, some medium sand, trace coarse sand to fine gravel; trace silt and clay (8.2%); dry to moist; brown.
- VAP-A9-RR209_7-8**
SAND, fine to medium, trace coarse sand to fine gravel; trace silt and clay (4.0%); moist to wet; tan.
- VAP-A9-RR209_12-13**
SAND, fine, some medium sand, trace coarse sand to fine gravel; some silt and clay (26.5%); moist; gray.
- VAP-A9-RR209_17-18**
SAND, fine to medium, trace coarse sand to fine gravel; little silt and clay (14.6%); moist; gray.
- VAP-A9-RR209_22-23**
SAND, fine to medium, little coarse sand, trace fine gravel; trace silt and clay (3.6%); dry to moist; gray.
- VAP-A9-RR209_27-28**
SAND, fine, trace medium to fine gravel; trace silt and clay (5.9%); dry to moist; pale brown.
- VAP-A9-RR209_28-28.5**
CLAY (54.1%); and SAND, fine, trace medium sand; dry to moist; gray.
- VAP-A9-RR209_28.5-30**
SAND, fine, trace medium sand; little silt and clay (13.0%) dry; light brownish gray.
- VAP-A9-RR209_31-32**
SAND, fine, trace medium sand to fine gravel; trace silt and clay (3.6%); dry; very pale brown.
- VAP-A9-RR209_35-36**
SAND, fine, some medium sand, trace coarse sand to fine gravel; little silt and clay (16.9%); moist; gray.
- VAP-A9-RR209_38-38.5**
SAND, fine, little medium sand, trace coarse sand to fine gravel; some silt and clay (20.6%); moist; grayish brown.
- VAP-A9-RR209_40-41**
SAND, fine, some medium sand, trace coarse sand to fine gravel; trace silt and clay (7.7%); moist; gray.
- VAP-A9-RR209_45-46**
SAND, fine, some medium sand, trace coarse sand to fine gravel; trace silt and clay (1.8%); moist; gray.
- VAP-A9-RR209_48-51**
SAND, fine, some medium sand, trace coarse sand to coarse gravel; trace silt and clay (0.7%); moist; gray.
- VAP-A9-RR209_54-55**
SAND, fine to medium, little coarse sand, trace fine gravel; trace silt and clay (0.5%); moist; gray.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	2.1	6.0	14.8	59.2	17.9	

Identification				Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A5.2-OE129_6.0' Depth: 6.0 Sample Number: 1205089-02				05/01/2012	05/03/2012	05/07/2012

Client Arcadis - Brighton			○ Testing Procedure: ASTM D422-63 (07) Percent Moisture: 13% Weight Dry Solids (grams): 299.31
Project RACR Lansing Plants			
Project No. B0064479.2012.00105	Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

5/9/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064479.2012.00105

Location: VAP-A5.2-OE129_6.0'

Depth: 6.0

Sample Number: 1205089-02

Material Description: Tan sediment sand

Date Sampled: 05/01/2012

Date Received: 05/03/2012

Date Tested: 05/07/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 13%

Weight Dry Solids (grams): 299.31

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
299.31	0.00	3.0"	413.21	413.21	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.63	455.63	100.0
		1.0"	411.80	411.80	100.0
		0.75"	439.14	439.14	100.0
		0.375"	408.24	408.24	100.0
		#4	385.05	378.66	97.9
		#8	386.77	372.87	93.2
		#10	353.58	349.67	91.9
		#16	312.93	301.54	88.1
		#20	291.87	284.88	85.8
		#30	290.91	280.73	82.4
		#50	283.54	246.69	70.1
		#60	249.75	236.22	65.5
		#100	288.06	225.83	44.7
		#140	258.65	211.57	29.0
		#200	246.01	212.73	17.9

Fractional Components

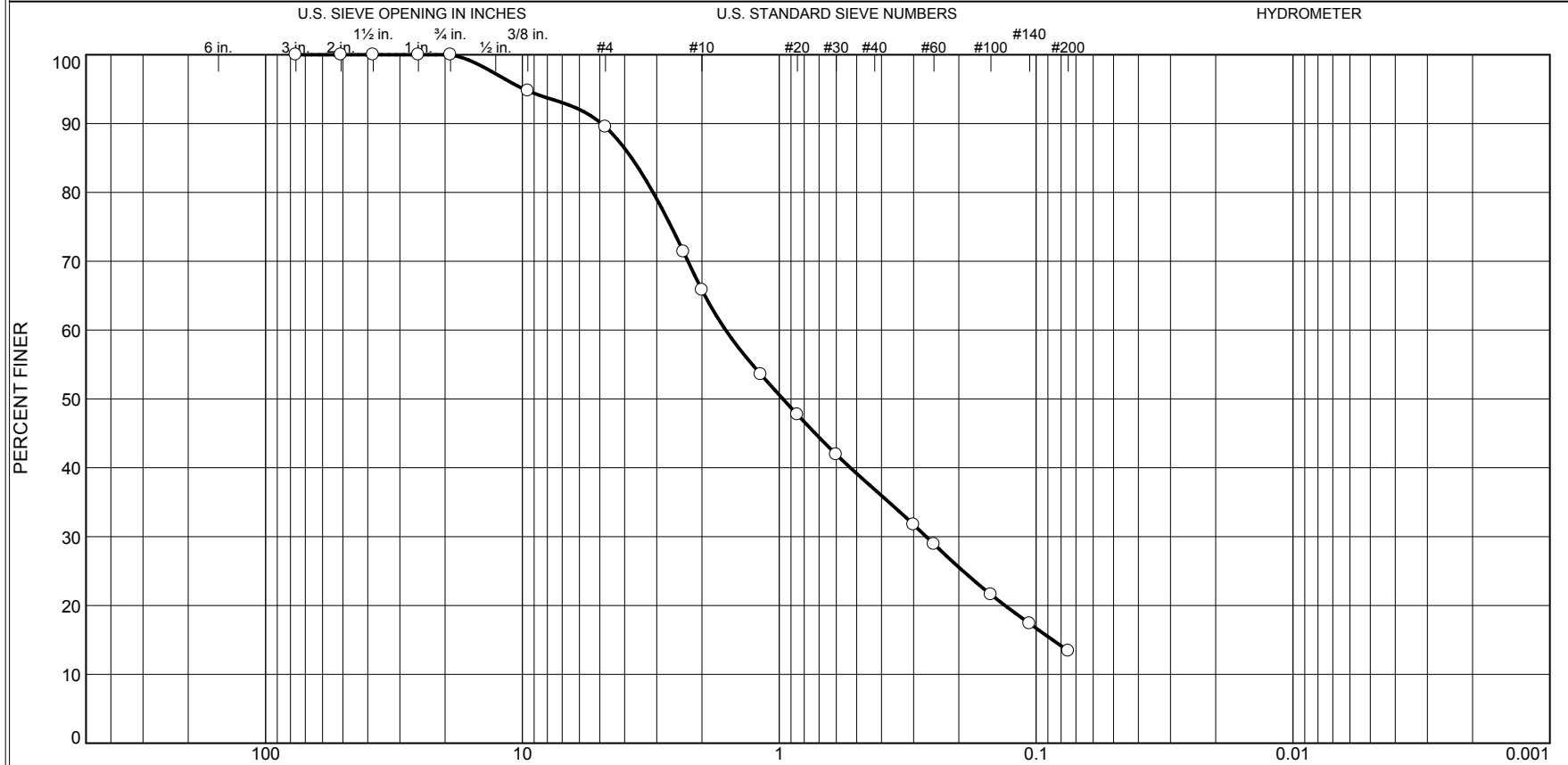
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	2.1	2.1	6.0	14.8	59.2	80.0			17.9

D10	D15	D20	D30	D50	D60	D80	D85	D90	D95
		0.0807	0.1087	0.1677	0.2122	0.5055	0.7738	1.5476	2.9895

Fineness Modulus
1.24

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	10.5	23.7	29.0	23.4	13.4	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A5.2-OE129-13.0'	Depth: 13.0	Sample Number: 1205089-01	05/01/2012	05/03/2012	05/07/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 12% Weight Dry Solids (grams): 274.52
Project RACR Lansing Plants		
Project No. B0064479.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

5/9/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064479.2012.00105

Location: VAP-A5.2-OE129-13.0'

Depth: 13.0

Sample Number: 1205089-01

Material Description: Gray clay

Date Sampled: 05/01/2012

Date Received: 05/03/2012

Date Tested: 05/07/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 12%

Weight Dry Solids (grams): 274.52

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
274.52	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.58	455.58	100.0
		1.0"	411.81	411.81	100.0
		0.75"	439.11	439.11	100.0
		0.375"	422.57	408.18	94.8
		#4	393.00	378.59	89.5
		#8	422.52	372.77	71.4
		#10	364.80	349.51	65.8
		#16	335.01	301.39	53.6
		#20	300.71	284.65	47.7
		#30	296.34	280.45	41.9
		#50	274.46	246.47	31.7
		#60	243.85	236.10	28.9
		#100	245.84	225.72	21.6
		#140	223.02	211.45	17.4
		#200	223.46	212.57	13.4

Fractional Components

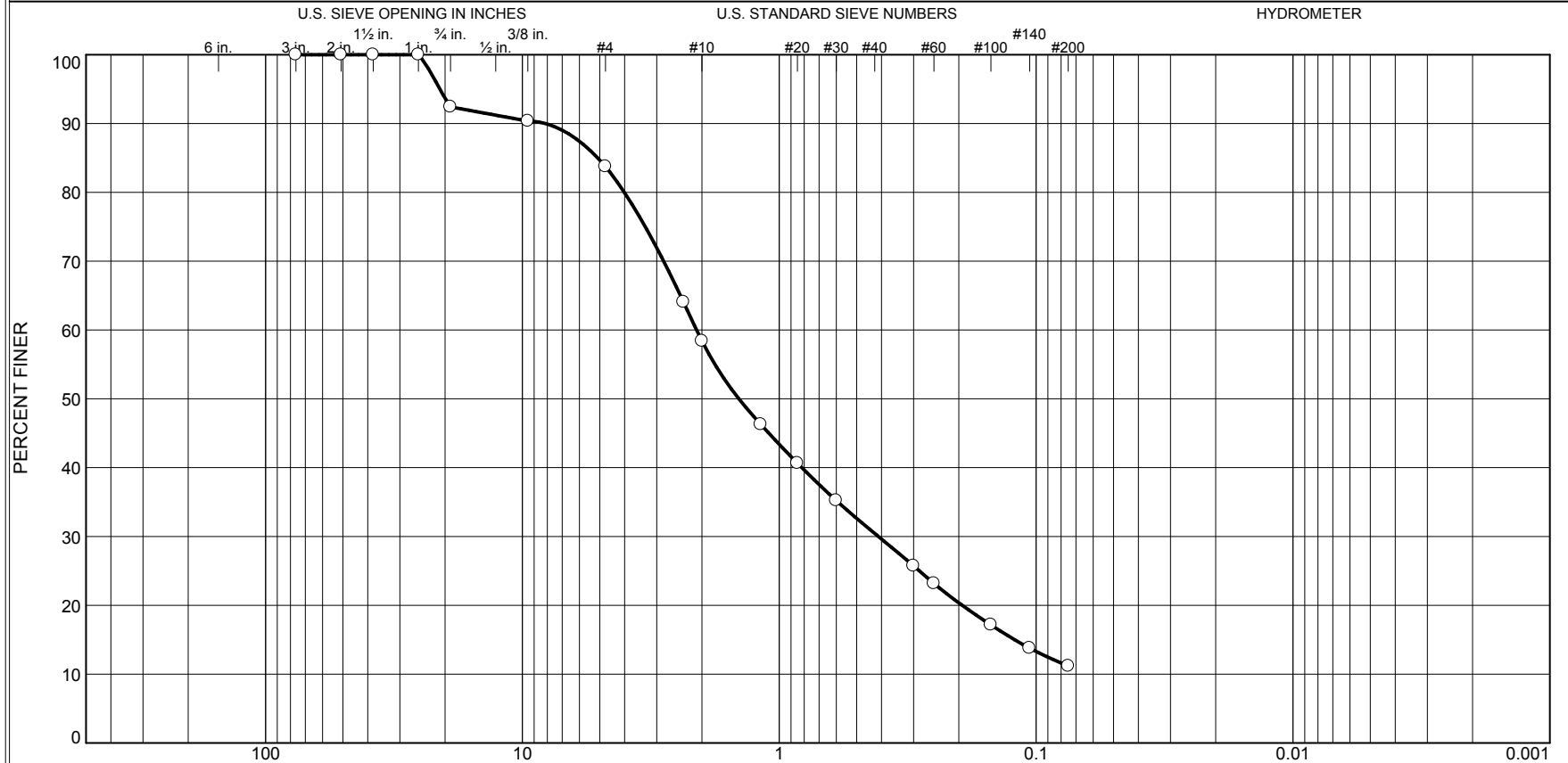
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	10.5	10.5	23.7	29.0	23.4	76.1			13.4

D10	D15	D20	D30	D50	D60	D80	D85	D90	D95
	0.0863	0.1323	0.2681	0.9683	1.6166	3.0998	3.7553	4.9180	9.8472

Fineness Modulus
2.96

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	7.6	8.6	25.4	28.0	19.2	11.2	

Identification				Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A5.2-OE129_17.0' Depth: 17.0 Sample Number: 1205089-03				05/02/2012	05/03/2012	05/07/2012

Client Arcadis - Brighton			○ Testing Procedure: ASTM D422-63 (07) Percent Moisture: 9% Weight Dry Solids (grams): 290.70
Project RACR Lansing Plants			
Project No. B0064479.2012.00105	Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

5/9/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064479.2012.00105

Location: VAP-A5.2-OE129_17.0'

Depth: 17.0

Sample Number: 1205089-03

Material Description: Gray clay

Date Sampled: 05/02/2012

Date Received: 05/03/2012

Date Tested: 05/07/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 9%

Weight Dry Solids (grams): 290.70

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
290.70	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.58	455.58	100.0
		1.0"	411.81	411.81	100.0
		0.75"	461.17	439.12	92.4
		0.375"	414.19	408.23	90.4
		#4	397.85	378.64	83.8
		#8	430.13	372.89	64.1
		#10	366.02	349.59	58.4
		#16	336.77	301.51	46.3
		#20	301.23	284.86	40.7
		#30	296.63	280.82	35.2
		#50	274.46	246.86	25.7
		#60	243.65	236.25	23.2
		#100	243.51	226.00	17.2
		#140	221.54	211.71	13.8
		#200	220.18	212.62	11.2

Fractional Components

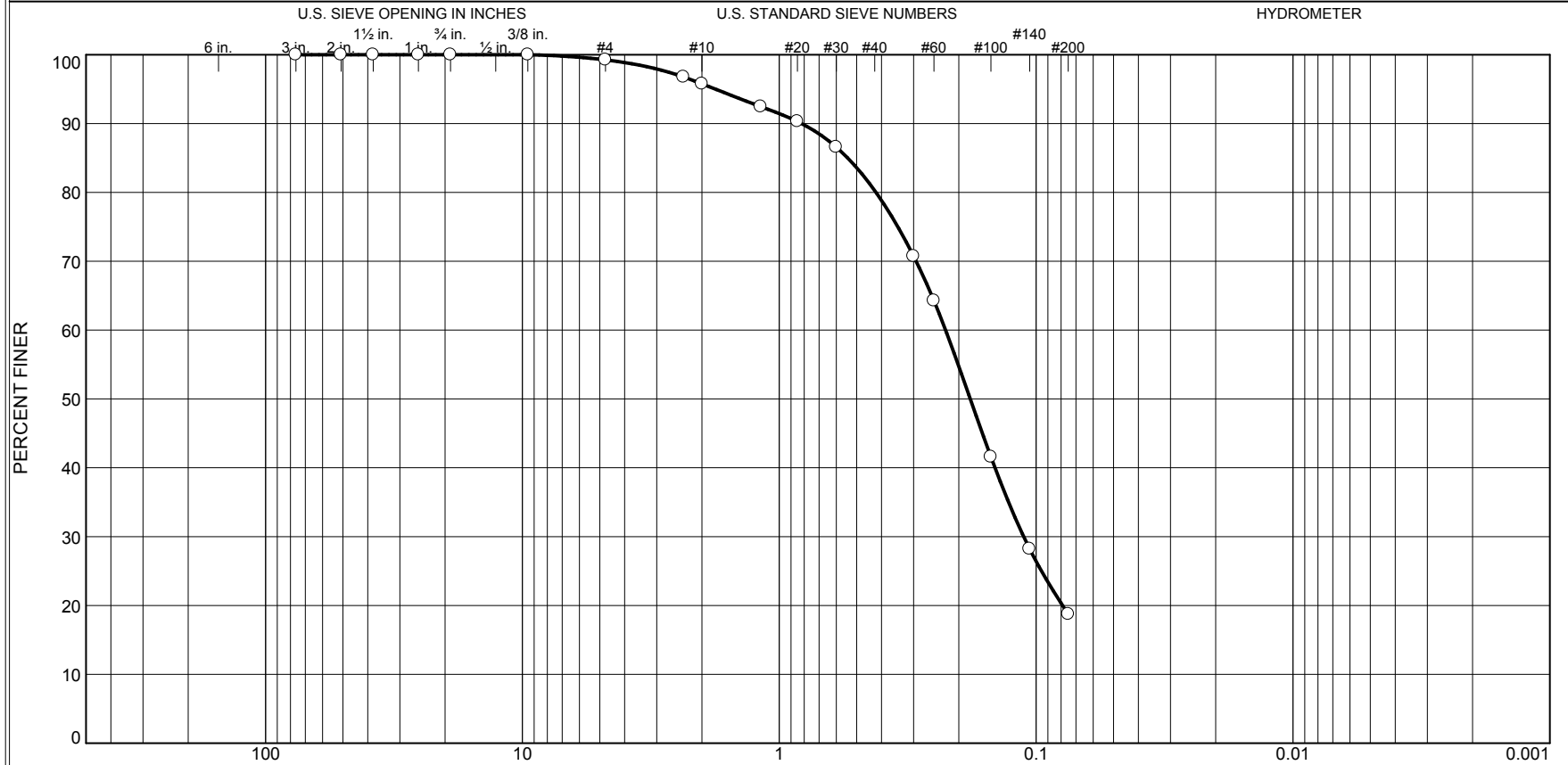
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	7.6	8.6	16.2	25.4	28.0	19.2	72.6			11.2

D10	D15	D20	D30	D50	D60	D80	D85	D90	D95
	0.1213	0.1941	0.4115	1.4361	2.0988	4.0111	5.0923	8.1331	20.9561

Fineness Modulus
3.45

TriMatrix Laboratories

Particle Size Distribution Report



	% +3"	% Gravel		GRAIN SIZE - mm. % Sand			% Fines		
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay	
○	0.0	0.0	0.7	3.5	15.5	61.6	18.7		
Identification							Date Sampled	Date Received	Date Tested
Source of Sample: VAP-25.2-OE129_18.5-19.5'		Depth: 18.5-19.5		Sample Number: 1205089-04			05/02/2012	05/03/2012	05/07/2012
Client Arcadis - Brighton							○ Testing Procedure: ASTM D422-63 (07) Percent Moisture: 12% Weight Dry Solids (grams): 322.81		
Project RACR Lansing Plants									
Project No. B0064479.2012.00105		Figure							

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

5/9/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064479.2012.00105

Location: VAP-25.2-OE129_18.5-19.5'

Depth: 18.5-19.5

Sample Number: 1205089-04

Material Description: Gray sand

Date Sampled: 05/02/2012

Date Received: 05/03/2012

Date Tested: 05/07/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 12%

Weight Dry Solids (grams): 322.81

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
322.81	0.00	3.0"	413.20	413.20	100.0
		2.0"	388.45	388.45	100.0
		1.5"	455.56	455.56	100.0
		1.0"	411.79	411.79	100.0
		0.75"	439.15	439.15	100.0
		0.375"	408.21	408.21	100.0
		#4	381.07	378.65	99.3
		#8	380.80	372.83	96.8
		#10	352.87	349.61	95.8
		#16	312.30	301.60	92.5
		#20	291.91	284.94	90.3
		#30	292.96	280.94	86.6
		#50	298.29	247.14	70.7
		#60	257.12	236.31	64.3
		#100	299.51	226.23	41.6
		#140	255.11	211.95	28.2
		#200	243.34	212.74	18.7

Fractional Components

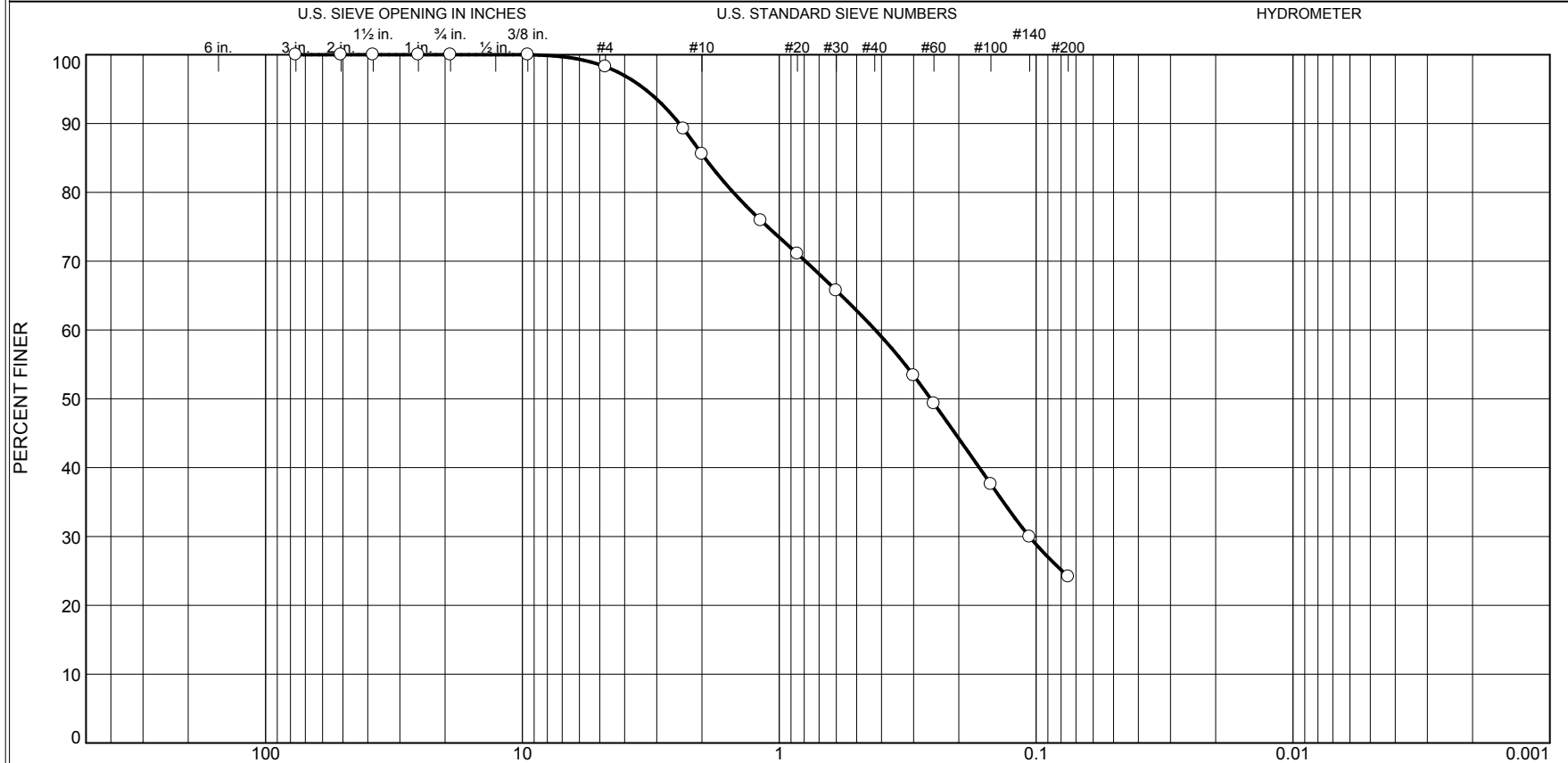
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.7	0.7	3.5	15.5	61.6	80.6			18.7

D10	D15	D20	D30	D50	D60	D80	D85	D90	D95
		0.0789	0.1118	0.1805	0.2252	0.4202	0.5415	0.8194	1.7714

Fineness Modulus
1.13

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	1.7	12.7	25.5	35.9	24.2	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A5.2-OE129_22'	Depth: 22.0	Sample Number: 1205089-05	05/02/2012	05/03/2012	05/07/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 8% Weight Dry Solids (grams): 306.39
Project RACR Lansing Plants		
Project No. B0064479.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

5/9/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064479.2012.00105

Location: VAP-A5.2-OE129_22'

Depth: 22.0

Sample Number: 1205089-05

Material Description: Gray clay

Date Sampled: 05/02/2012

Date Received: 05/03/2012

Date Tested: 05/07/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 8%

Weight Dry Solids (grams): 306.39

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
306.39	0.00	3.0"	413.21	413.21	100.0
		2.0"	388.53	388.53	100.0
		1.5"	455.62	455.62	100.0
		1.0"	411.81	411.81	100.0
		0.75"	439.12	439.12	100.0
		0.375"	408.21	408.21	100.0
		#4	383.96	378.62	98.3
		#8	400.52	372.87	89.2
		#10	360.86	349.62	85.6
		#16	331.13	301.59	75.9
		#20	299.81	284.92	71.1
		#30	297.49	281.16	65.7
		#50	285.70	247.90	53.4
		#60	248.98	236.52	49.3
		#100	263.82	227.85	37.6
		#140	235.48	212.02	29.9
		#200	230.41	212.71	24.2

Fractional Components

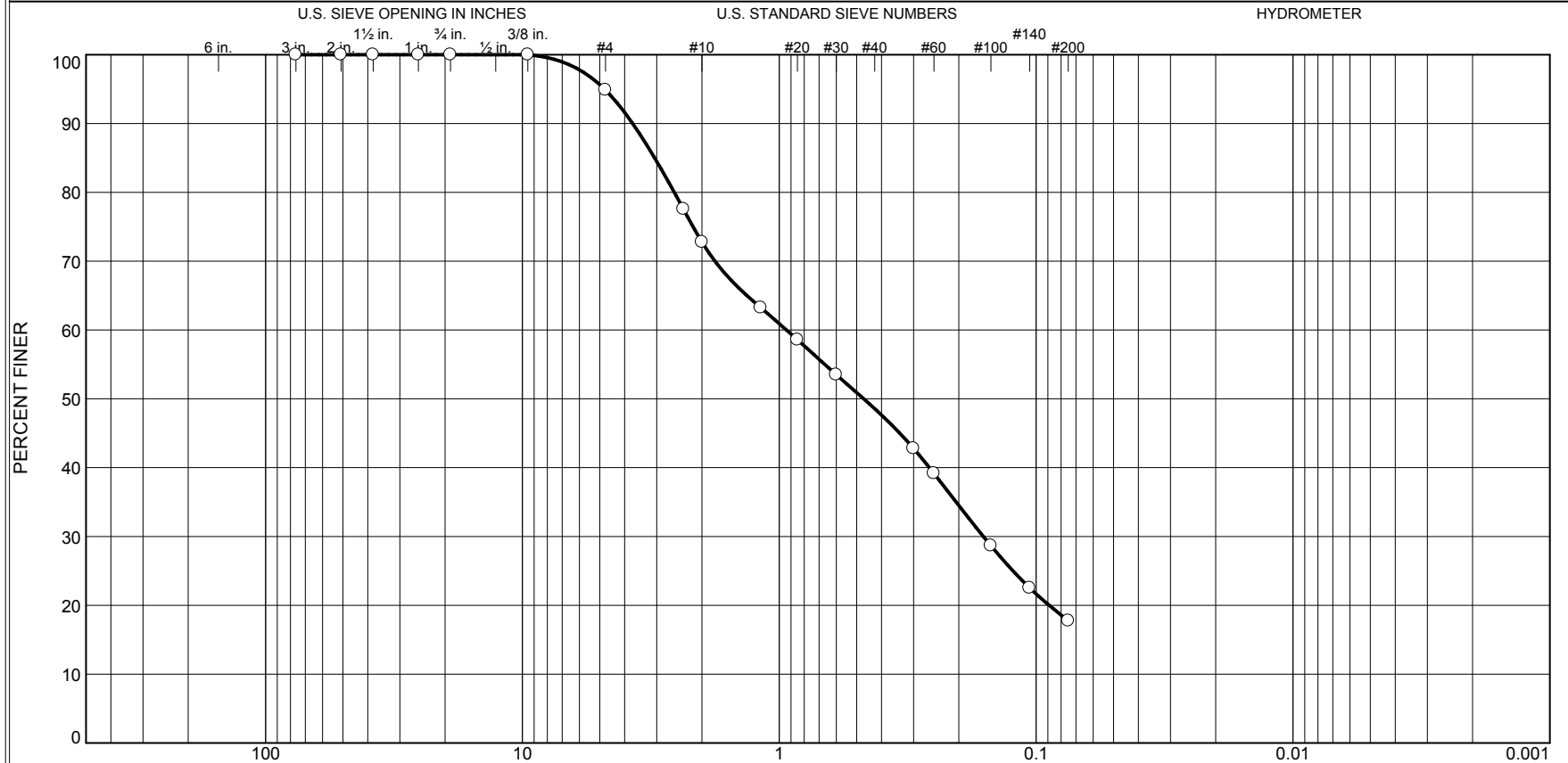
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	1.7	1.7	12.7	25.5	35.9	74.1			24.2

D10	D15	D20	D30	D50	D60	D80	D85	D90	D95
			0.1064	0.2575	0.4229	1.5097	1.9488	2.4496	3.3348

Fineness Modulus
1.80

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	5.1	22.1	24.2	30.8	17.8	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A5.2-OE129_27-28'	Depth: 27.0-28.0	Sample Number: 1205089-06	05/02/2012	05/03/2012	05/08/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 9% Weight Dry Solids (grams): 341.07
Project RACR Lansing Plants		
Project No. B0064479.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

5/9/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064479.2012.00105

Location: VAP-A5.2-OE129_27-28'

Depth: 27.0-28.0

Sample Number: 1205089-06

Material Description: Gray clay

Date Sampled: 05/02/2012

Date Received: 05/03/2012

Date Tested: 05/08/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 9%

Weight Dry Solids (grams): 341.07

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
341.07	0.00	3.0"	413.20	413.20	100.0
		2.0"	388.45	388.45	100.0
		1.5"	455.56	455.56	100.0
		1.0"	411.80	411.80	100.0
		0.75"	439.15	439.15	100.0
		0.375"	408.26	408.26	100.0
		#4	396.17	378.66	94.9
		#8	431.89	372.85	77.6
		#10	365.92	349.61	72.8
		#16	334.15	301.64	63.2
		#20	300.91	285.01	58.6
		#30	298.54	281.22	53.5
		#50	284.51	247.97	42.8
		#60	248.96	236.59	39.2
		#100	262.54	226.71	28.7
		#140	232.72	211.82	22.5
		#200	229.02	212.74	17.8

Fractional Components

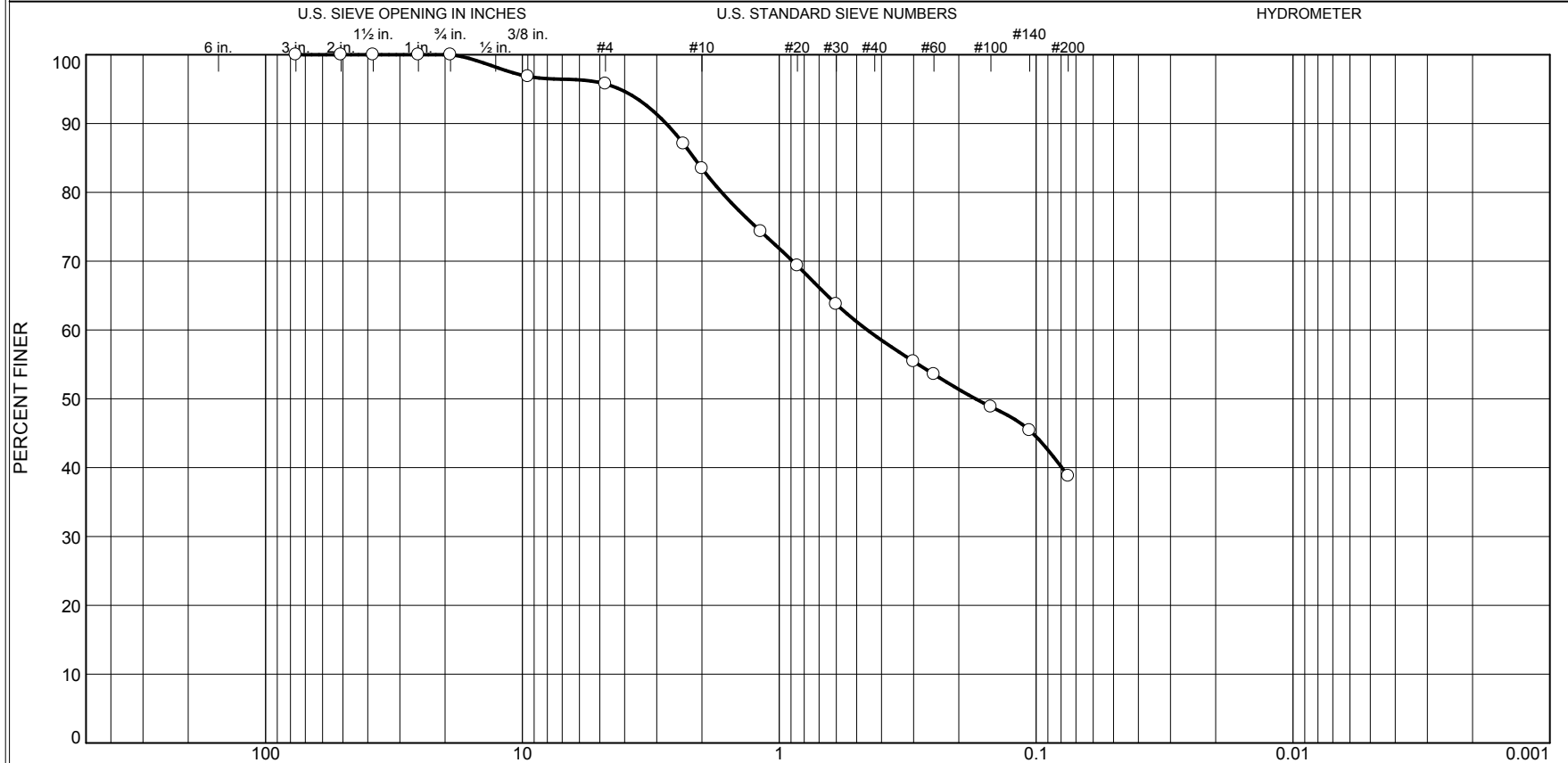
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	5.1	5.1	22.1	24.2	30.8	77.1			17.8

D10	D15	D20	D30	D50	D60	D80	D85	D90	D95
		0.0889	0.1606	0.4691	0.9381	2.5627	3.0563	3.7219	4.7897

Fineness Modulus
2.39

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	4.2	12.3	24.3	20.4	38.8	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A5.2-OE129_31-32'	Depth: 31.0-32.0	Sample Number: 1205089-07	05/02/2012	05/03/2012	05/07/2012

Client Arcadis - Brighton		○ Testing Procedure: ASTM D422-63 (07) Percent Moisture: 16% Weight Dry Solids (grams): 312.84
Project RACR Lansing Plants		
Project No. B0064479.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

5/9/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064479.2012.00105

Location: VAP-A5.2-OE129_31-32'

Depth: 31.0-32.0

Sample Number: 1205089-07

Material Description: Gray clay

Date Sampled: 05/02/2012

Date Received: 05/03/2012

Date Tested: 05/07/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 16%

Weight Dry Solids (grams): 312.84

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
312.84	0.00	3.0"	413.20	413.20	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.60	455.60	100.0
		1.0"	411.81	411.81	100.0
		0.75"	439.15	439.15	100.0
		0.375"	418.12	408.25	96.8
		#4	382.04	378.64	95.8
		#8	400.11	372.92	87.1
		#10	360.94	349.68	83.5
		#16	330.28	301.65	74.3
		#20	300.69	285.10	69.3
		#30	298.98	281.51	63.7
		#50	274.23	248.23	55.4
		#60	242.53	236.66	53.6
		#100	242.07	227.31	48.8
		#140	223.25	212.53	45.4
		#200	233.57	212.78	38.8

Fractional Components

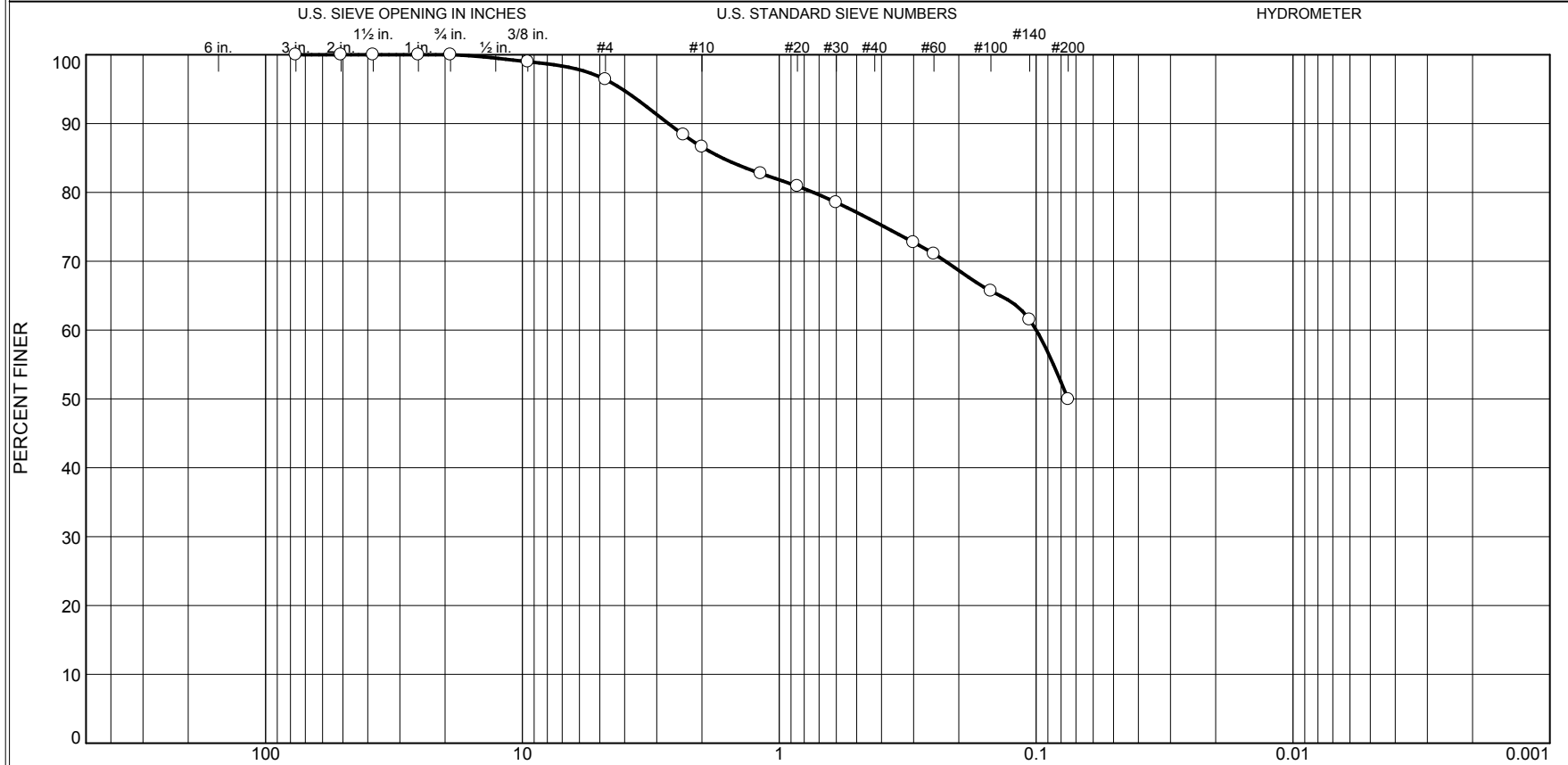
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	4.2	4.2	12.3	24.3	20.4	57.0			38.8

D10	D15	D20	D30	D50	D60	D80	D85	D90	D95
				0.1720	0.4540	1.6757	2.1456	2.7555	4.1750

Fineness Modulus
1.78

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	3.6	9.8	10.8	25.9	49.9	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A5.2-OE129_36-36.5' Depth: 36.0-36.5 Sample Number: 1205089-08			05/02/2012	05/03/2012	05/07/2012

Client Arcadis - Brighton			○ Testing Procedure: ASTM D422-63 (07) Percent Moisture: 15% Weight Dry Solids (grams): 318.19
Project RACR Lansing Plants			
Project No. B0064479.2012.00105	Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

5/9/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064479.2012.00105

Location: VAP-A5.2-OE129_36-36.5'

Depth: 36.0-36.5

Sample Number: 1205089-08

Material Description: Gray Sand

Date Sampled: 05/02/2012

Date Received: 05/03/2012

Date Tested: 05/07/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 15%

Weight Dry Solids (grams): 318.19

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
318.19	0.00	3.0"	413.23	413.23	100.0
		2.0"	388.47	388.47	100.0
		1.5"	455.59	455.59	100.0
		1.0"	411.85	411.85	100.0
		0.75"	439.16	439.16	100.0
		0.375"	411.49	408.26	99.0
		#4	386.89	378.69	96.4
		#8	398.51	372.96	88.4
		#10	355.31	349.68	86.6
		#16	314.00	301.68	82.7
		#20	290.89	285.05	80.9
		#30	289.12	281.59	78.5
		#50	266.79	248.36	72.7
		#60	241.99	236.73	71.1
		#100	244.81	227.58	65.7
		#140	226.60	213.32	61.5
		#200	249.78	212.98	49.9

Fractional Components

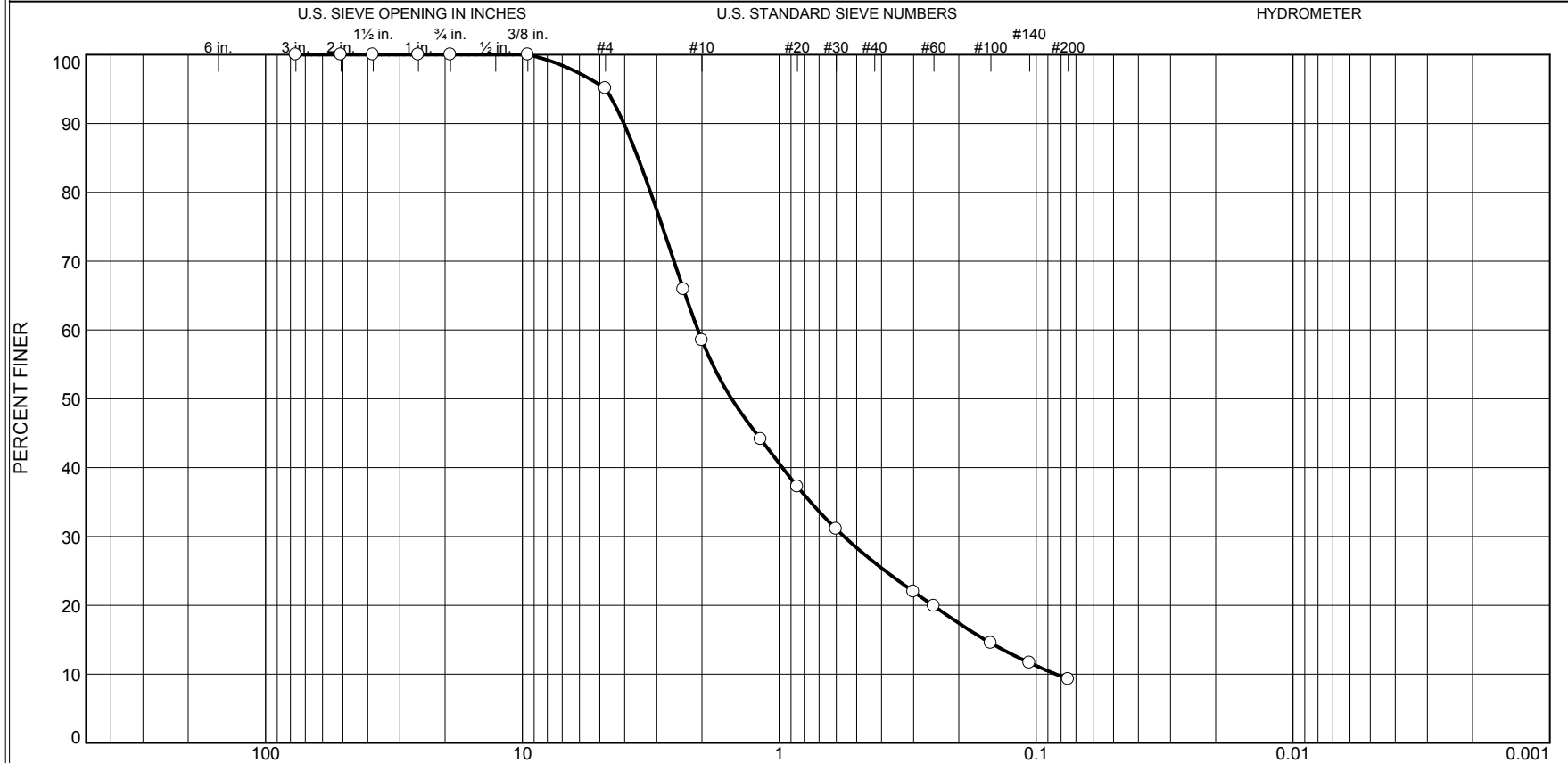
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	3.6	3.6	9.8	10.8	25.9	46.5			49.9

D10	D15	D20	D30	D50	D60	D80	D85	D90	D95
				0.0751	0.0998	0.7372	1.6639	2.6999	4.0866

Fineness Modulus
1.17

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	4.9	36.6	32.3	16.9	9.3	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A5.2-OE129_40-41'	Depth: 40.0-41.0	Sample Number: 1205089-09	05/02/2012	05/03/2012	05/08/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 13% Weight Dry Solids (grams): 257.74
Project RACR Lansing Plants		
Project No. B0064479.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

5/9/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064479.2012.00105

Location: VAP-A5.2-OE129_40-41'

Depth: 40.0-41.0

Sample Number: 1205089-09

Material Description: Gray clay

Date Sampled: 05/02/2012

Date Received: 05/03/2012

Date Tested: 05/08/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 13%

Weight Dry Solids (grams): 257.74

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
257.74	0.00	3.0"	413.20	413.20	100.0
		2.0"	388.48	388.48	100.0
		1.5"	455.58	455.58	100.0
		1.0"	411.82	411.82	100.0
		0.75"	439.15	439.15	100.0
		0.375"	408.23	408.23	100.0
		#4	391.28	378.66	95.1
		#8	448.18	372.92	65.9
		#10	368.70	349.63	58.5
		#16	338.69	301.61	44.1
		#20	302.74	285.02	37.2
		#30	297.35	281.43	31.1
		#50	271.63	248.19	22.0
		#60	241.99	236.60	19.9
		#100	241.10	227.24	14.5
		#140	219.21	211.83	11.6
		#200	218.91	212.76	9.3

Fractional Components

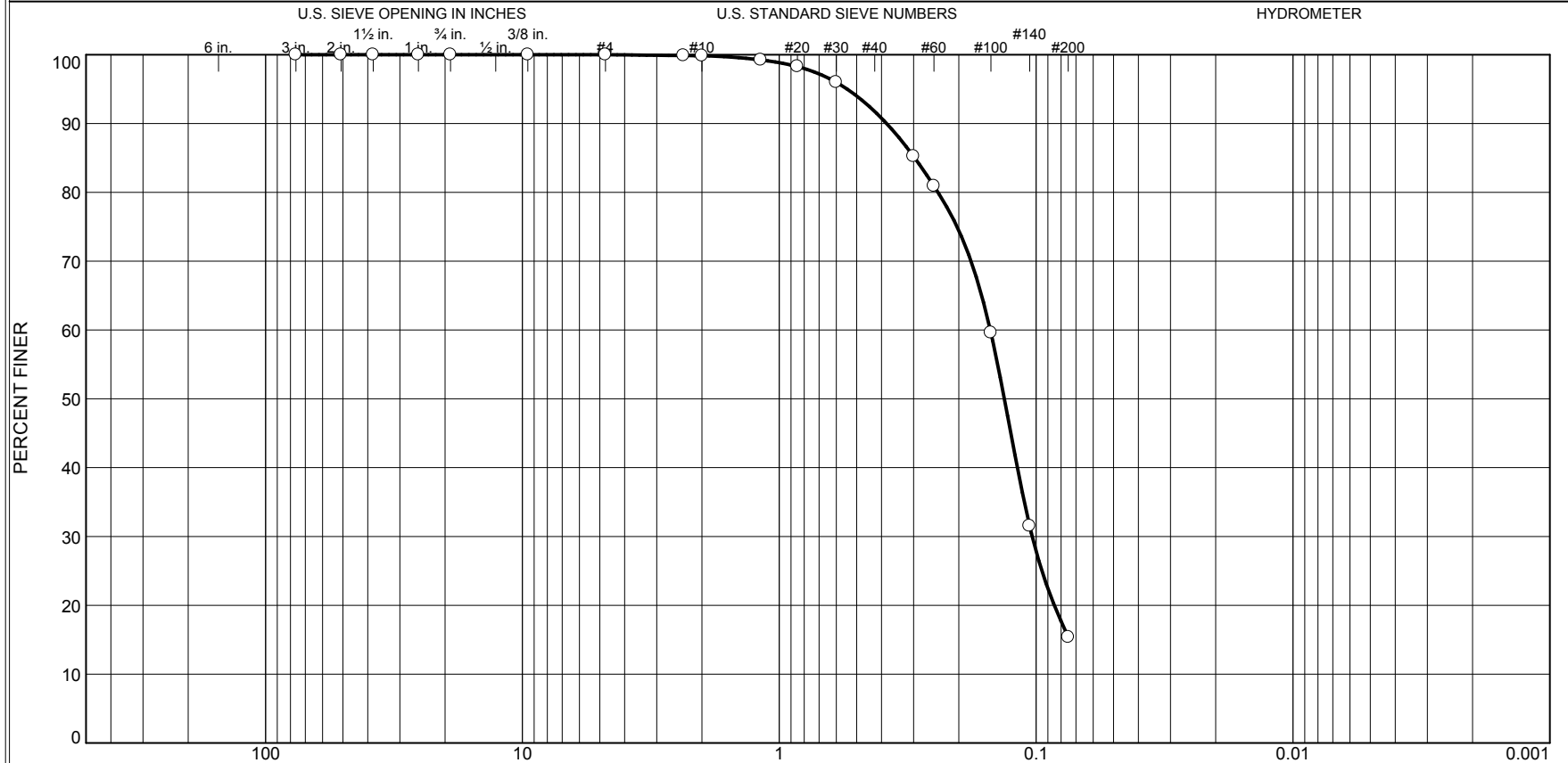
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	4.9	4.9	36.6	32.3	16.9	85.8			9.3

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.0839	0.1581	0.2526	0.5599	1.5323	2.0735	3.1693	3.5473	4.0261	4.7304

Fineness Modulus	C _u	C _c
3.27	24.72	1.80

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.1	8.2	76.3	15.4	

Identification				Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A5.2-OE129_43' Depth: 43.0 Sample Number: 1205089-10				05/02/2012	05/03/2012	05/08/2012

Client Arcadis - Brighton			○ Testing Procedure: ASTM D422-63 (07) Percent Moisture: 5% Weight Dry Solids (grams): 177.40
Project RACR Lansing Plants			
Project No. B0064479.2012.00105	Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

5/9/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064479.2012.00105

Location: VAP-A5.2-OE129_43'

Depth: 43.0

Sample Number: 1205089-10

Material Description: Gray sand

Date Sampled: 05/02/2012

Date Received: 05/03/2012

Date Tested: 05/08/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 5%

Weight Dry Solids (grams): 177.40

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
177.40	0.00	3.0"	413.22	413.22	100.0
		2.0"	388.50	388.50	100.0
		1.5"	455.63	455.63	100.0
		1.0"	411.82	411.82	100.0
		0.75"	439.14	439.14	100.0
		0.375"	408.24	408.24	100.0
		#4	378.64	378.64	100.0
		#8	373.16	372.95	99.9
		#10	349.72	349.67	99.9
		#16	302.79	301.70	99.2
		#20	286.78	285.07	98.3
		#30	285.51	281.46	96.0
		#50	267.26	248.16	85.2
		#60	244.16	236.52	80.9
		#100	264.22	226.40	59.6
		#140	261.67	211.85	31.5
		#200	241.32	212.69	15.4

Fractional Components

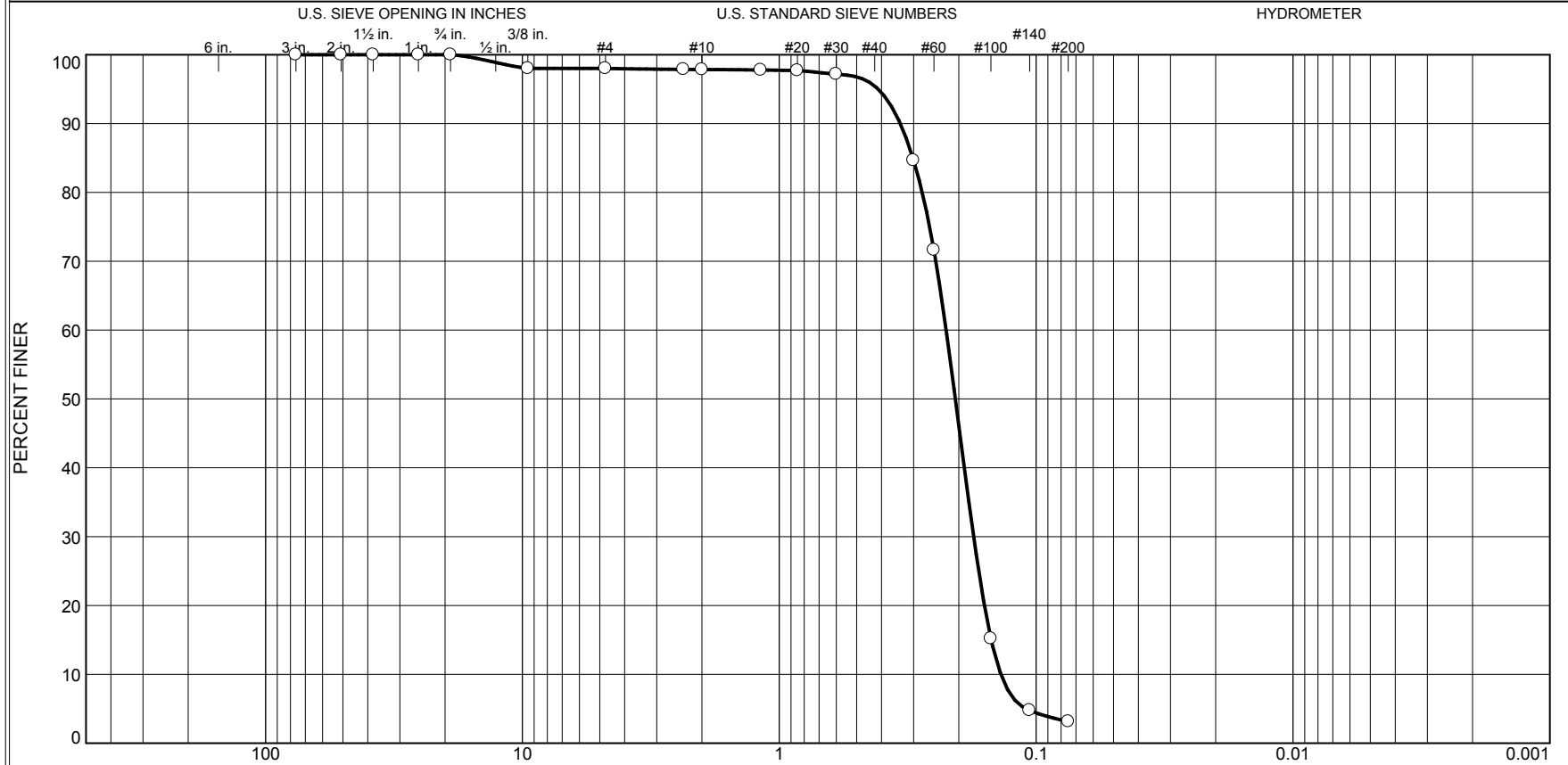
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	0.1	8.2	76.3	84.6			15.4

D10	D15	D20	D30	D50	D60	D80	D85	D90	D95
		0.0850	0.1036	0.1330	0.1508	0.2411	0.2970	0.3821	0.5438

Fineness Modulus
0.60

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	2.0	0.1	2.4	92.4	3.1	

Identification				Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A5.2-OE129_46' Depth: 46.0 Sample Number: 1205089-11				05/02/2012	05/03/2012	05/08/2012

Client Arcadis - Brighton			○ Testing Procedure: ASTM D422-63 (07) Percent Moisture: 2% Weight Dry Solids (grams): 248.76
Project RACR Lansing Plants			
Project No. B0064479.2012.00105	Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

5/9/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064479.2012.00105

Location: VAP-A5.2-OE129_46'

Depth: 46.0

Sample Number: 1205089-11

Material Description: Gray sand

Date Sampled: 05/02/2012

Date Received: 05/03/2012

Date Tested: 05/08/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 2%

Weight Dry Solids (grams): 248.76

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
248.76	0.00	3.0"	413.22	413.22	100.0
		2.0"	388.50	388.50	100.0
		1.5"	455.62	455.62	100.0
		1.0"	411.83	411.83	100.0
		0.75"	439.10	439.10	100.0
		0.375"	413.17	408.22	98.0
		#4	378.65	378.65	98.0
		#8	373.21	372.86	97.9
		#10	349.68	349.64	97.9
		#16	301.76	301.58	97.8
		#20	285.22	285.01	97.7
		#30	282.74	281.43	97.2
		#50	279.29	248.15	84.7
		#60	268.93	236.52	71.6
		#100	367.52	227.11	15.2
		#140	238.77	212.87	4.8
		#200	216.84	212.80	3.1

Fractional Components

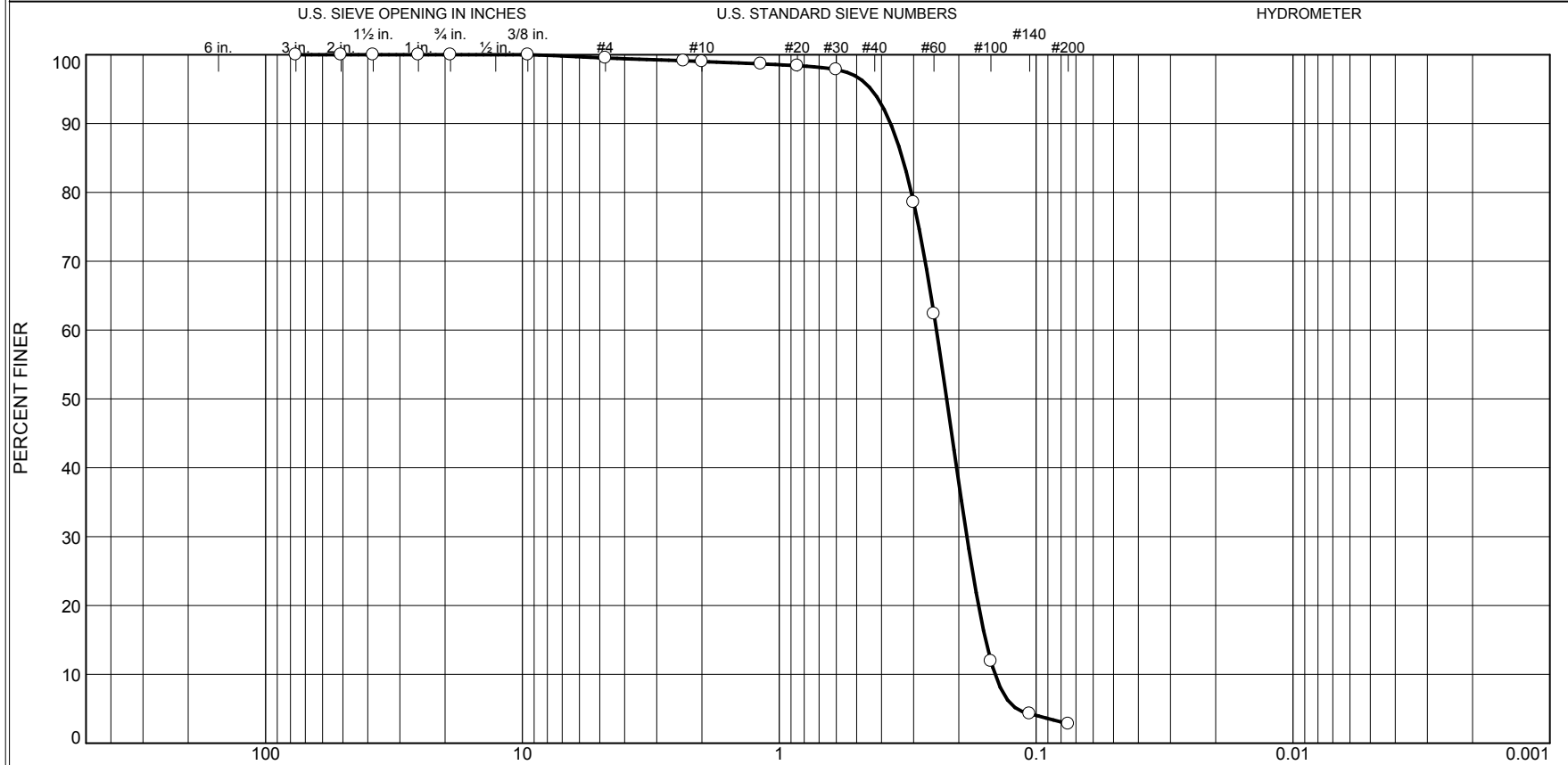
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	2.0	2.0	0.1	2.4	92.4	94.9			3.1

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.1372	0.1496	0.1590	0.1751	0.2063	0.2241	0.2777	0.3020	0.3382	0.4120

Fineness Modulus	C _u	C _c
1.11	1.63	1.00

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.5	0.5	4.7	91.5	2.8	

Identification				Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A5.2-OE129_54' Depth: 54.0 Sample Number: 1205089-12				05/02/2012	05/03/2012	05/08/2012

Client Arcadis - Brighton			○ Testing Procedure: ASTM D422-63 (07) Percent Moisture: 1% Weight Dry Solids (grams): 244.48
Project RACR Lansing Plants			
Project No. B0064479.2012.00105	Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

5/9/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064479.2012.00105

Location: VAP-A5.2-OE129_54'

Depth: 54.0

Sample Number: 1205089-12

Material Description: Gray sand

Date Sampled: 05/02/2012

Date Received: 05/03/2012

Date Tested: 05/08/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 1%

Weight Dry Solids (grams): 244.48

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
244.48	0.00	3.0"	413.25	413.25	100.0
		2.0"	388.56	388.56	100.0
		1.5"	455.62	455.62	100.0
		1.0"	411.82	411.82	100.0
		0.75"	439.19	439.19	100.0
		0.375"	408.25	408.25	100.0
		#4	379.83	378.67	99.5
		#8	373.87	372.90	99.1
		#10	349.99	349.71	99.0
		#16	302.46	301.62	98.7
		#20	285.66	285.02	98.4
		#30	282.81	281.39	97.8
		#50	295.71	248.63	78.6
		#60	276.48	236.87	62.4
		#100	349.80	226.45	11.9
		#140	230.70	212.02	4.3
		#200	216.38	212.77	2.8

Fractional Components

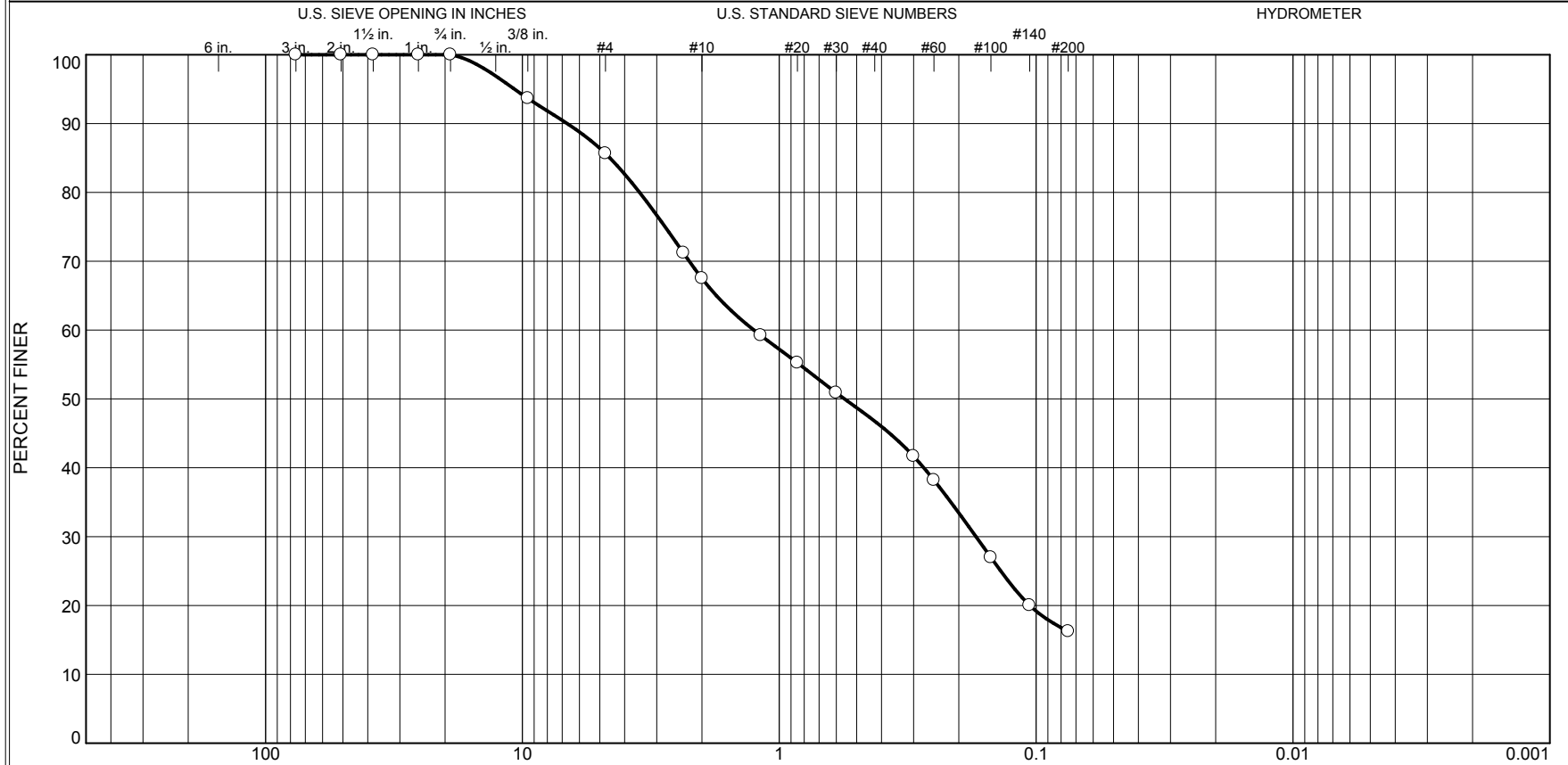
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.5	0.5	0.5	4.7	91.5	96.7			2.8

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.1446	0.1573	0.1676	0.1860	0.2230	0.2444	0.3061	0.3316	0.3688	0.4391

Fineness Modulus	C _u	C _c
1.14	1.69	0.98

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	14.4	18.1	20.7	30.6	16.2	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A5.2-OE129_58-59'	Depth: 58.0-59.0	Sample Number: 1205089-13	05/02/2012	05/03/2012	05/08/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 10% Weight Dry Solids (grams): 298.56
Project RACR Lansing Plants		
Project No. B0064479.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

5/9/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064479.2012.00105

Location: VAP-A5.2-OE129_58-59'

Depth: 58.0-59.0

Sample Number: 1205089-13

Material Description: Gray clay

Date Sampled: 05/02/2012

Date Received: 05/03/2012

Date Tested: 05/08/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 10%

Weight Dry Solids (grams): 298.56

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
298.56	0.00	3.0"	413.25	413.25	100.0
		2.0"	388.51	388.51	100.0
		1.5"	455.60	455.60	100.0
		1.0"	411.82	411.82	100.0
		0.75"	439.16	439.16	100.0
		0.375"	427.17	408.23	93.7
		#4	402.58	378.66	85.6
		#8	415.97	372.85	71.2
		#10	360.66	349.62	67.5
		#16	326.38	301.64	59.2
		#20	296.94	285.06	55.2
		#30	294.37	281.38	50.9
		#50	277.34	249.83	41.7
		#60	249.36	238.99	38.2
		#100	261.86	228.34	27.0
		#140	233.62	212.83	20.0
		#200	224.26	212.93	16.2

Fractional Components

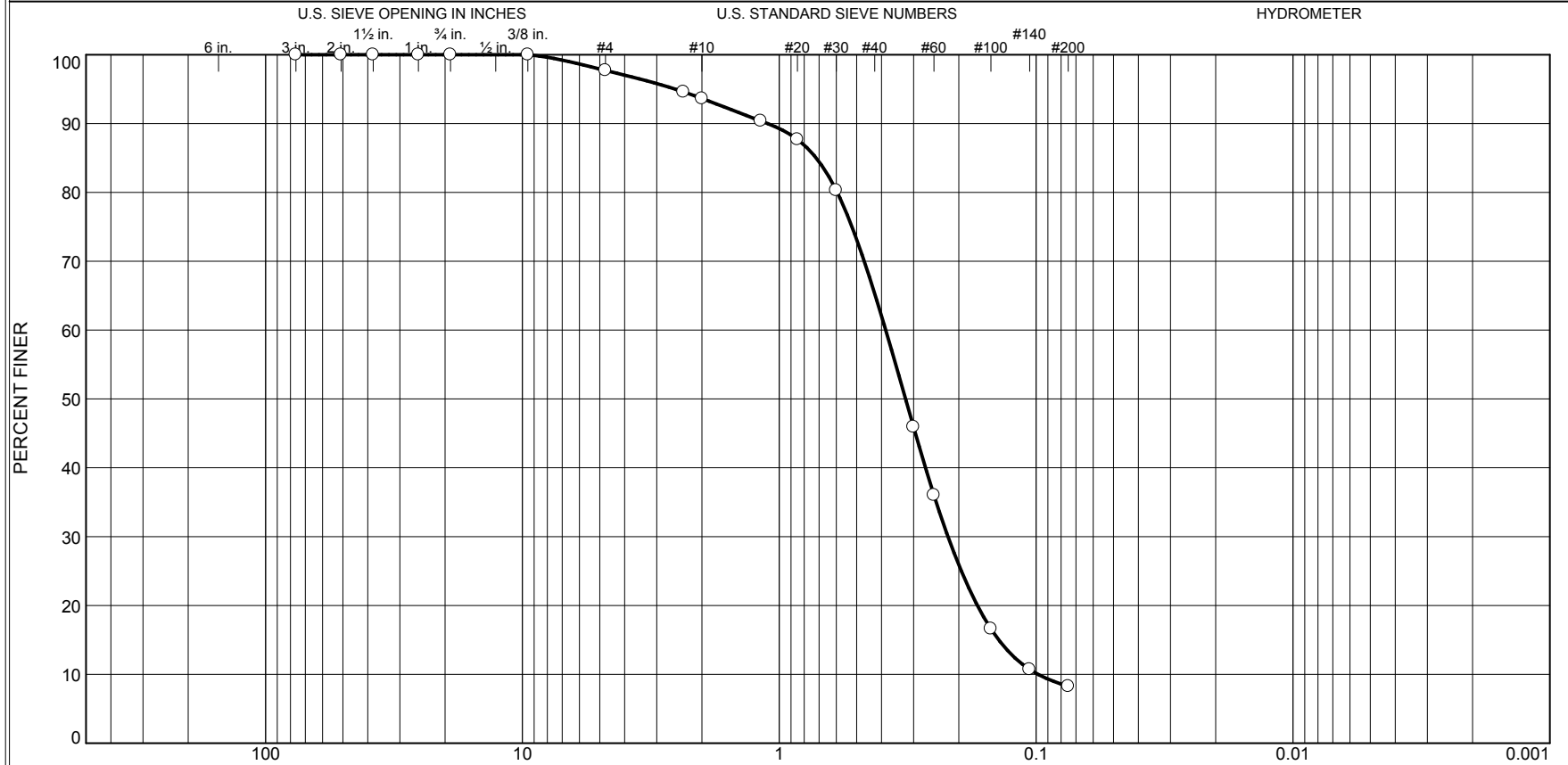
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	14.4	14.4	18.1	20.7	30.6	69.4			16.2

D10	D15	D20	D30	D50	D60	D80	D85	D90	D95
		0.1059	0.1715	0.5571	1.2553	3.4980	4.5629	6.6900	10.7300

Fineness Modulus
2.71

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	2.3	4.1	28.3	57.1	8.2	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A9-RR209_2-3	Depth: 2.0-3.0	Sample Number: 1206126-01	06/04/2012	06/07/2012	06/11/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 5.5% Weight Dry Solids (grams): 260.54
Project RACR Lansing Plants		
Project No. B0064481.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A9-RR209_2-3

Depth: 2.0-3.0

Sample Number: 1206126-01

Material Description: Brown/tan sand

Date Sampled: 06/04/2012

Date Received: 06/07/2012

Date Tested: 06/11/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 5.5%

Weight Dry Solids (grams): 260.54

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
260.54	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	411.78	411.78	100.0
		0.75"	439.10	439.10	100.0
		0.375"	408.22	408.22	100.0
		#4	384.57	378.63	97.7
		#8	380.95	372.84	94.6
		#10	352.14	349.62	93.6
		#16	310.07	301.56	90.4
		#20	291.93	284.95	87.7
		#30	300.49	281.22	80.3
		#50	338.62	249.05	45.9
		#60	263.71	237.91	36.0
		#100	278.02	227.45	16.6
		#140	227.35	211.98	10.7
		#200	219.25	212.81	8.2

Fractional Components

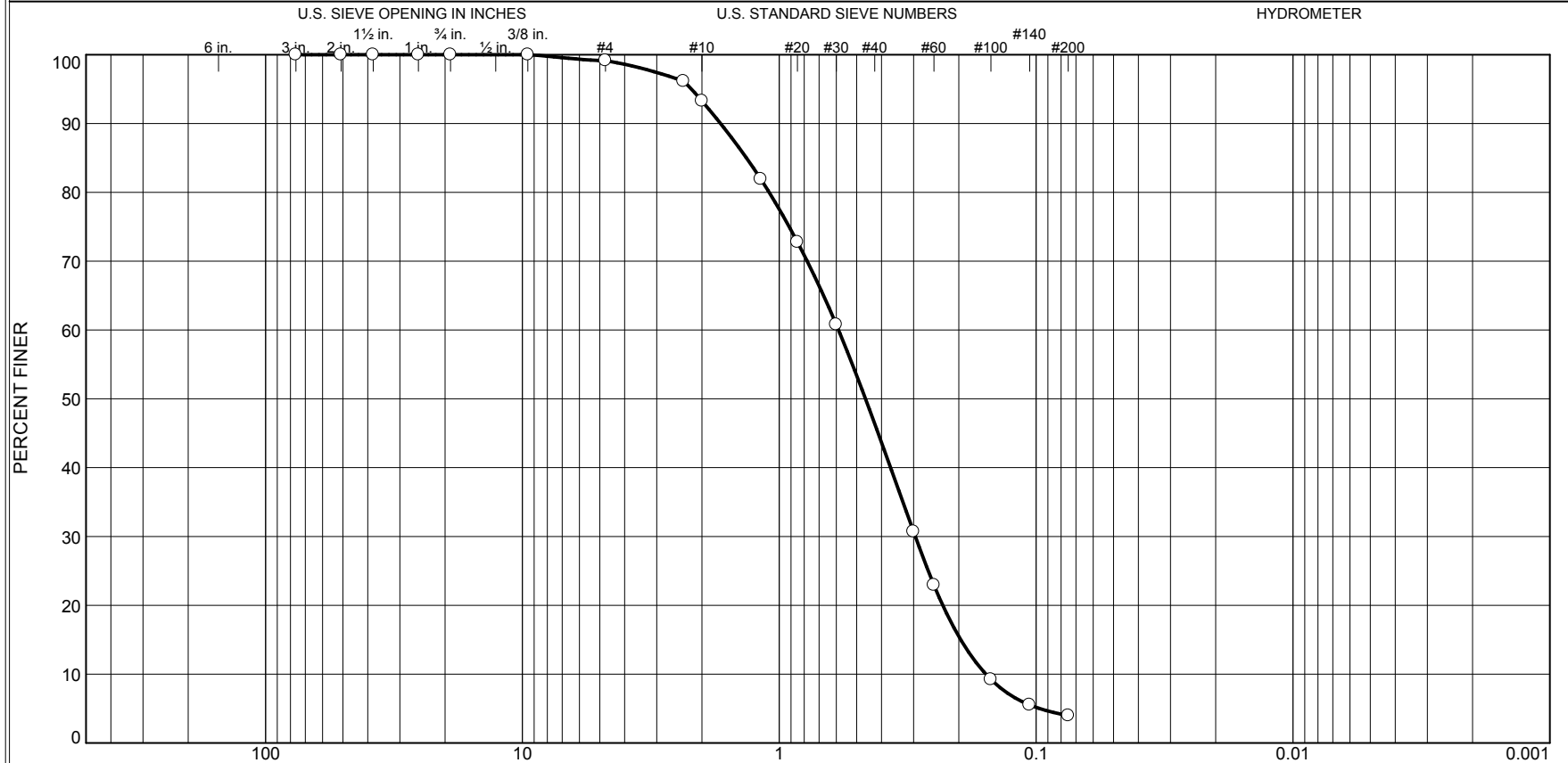
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	2.3	2.3	4.1	28.3	57.1	89.5			8.2

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.0984	0.1399	0.1693	0.2204	0.3224	0.3852	0.5946	0.7183	1.1112	2.5394

Fineness Modulus	C _u	C _c
1.74	3.91	1.28

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.9	5.8	46.9	42.4	4.0	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A9-RR209_7-8	Depth: 7.0-8.0	Sample Number: 1206126-02	06/04/2012	06/07/2012	06/11/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 11.5% Weight Dry Solids (grams): 292.99
Project RACR Lansing Plants		
Project No. B0064481.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A9-RR209_7-8

Depth: 7.0-8.0

Sample Number: 1206126-02

Material Description: Tan sand

Date Sampled: 06/04/2012

Date Received: 06/07/2012

Date Tested: 06/11/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 11.5%

Weight Dry Solids (grams): 292.99

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
292.99	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	411.83	411.83	100.0
		0.75"	439.12	439.12	100.0
		0.375"	408.19	408.19	100.0
		#4	381.13	378.62	99.1
		#8	381.58	372.84	96.2
		#10	358.05	349.59	93.3
		#16	334.85	301.58	81.9
		#20	311.79	284.98	72.8
		#30	316.68	281.55	60.8
		#50	338.03	249.89	30.7
		#60	260.57	237.81	22.9
		#100	267.34	227.21	9.2
		#140	222.88	211.99	5.5
		#200	217.35	212.82	4.0

Fractional Components

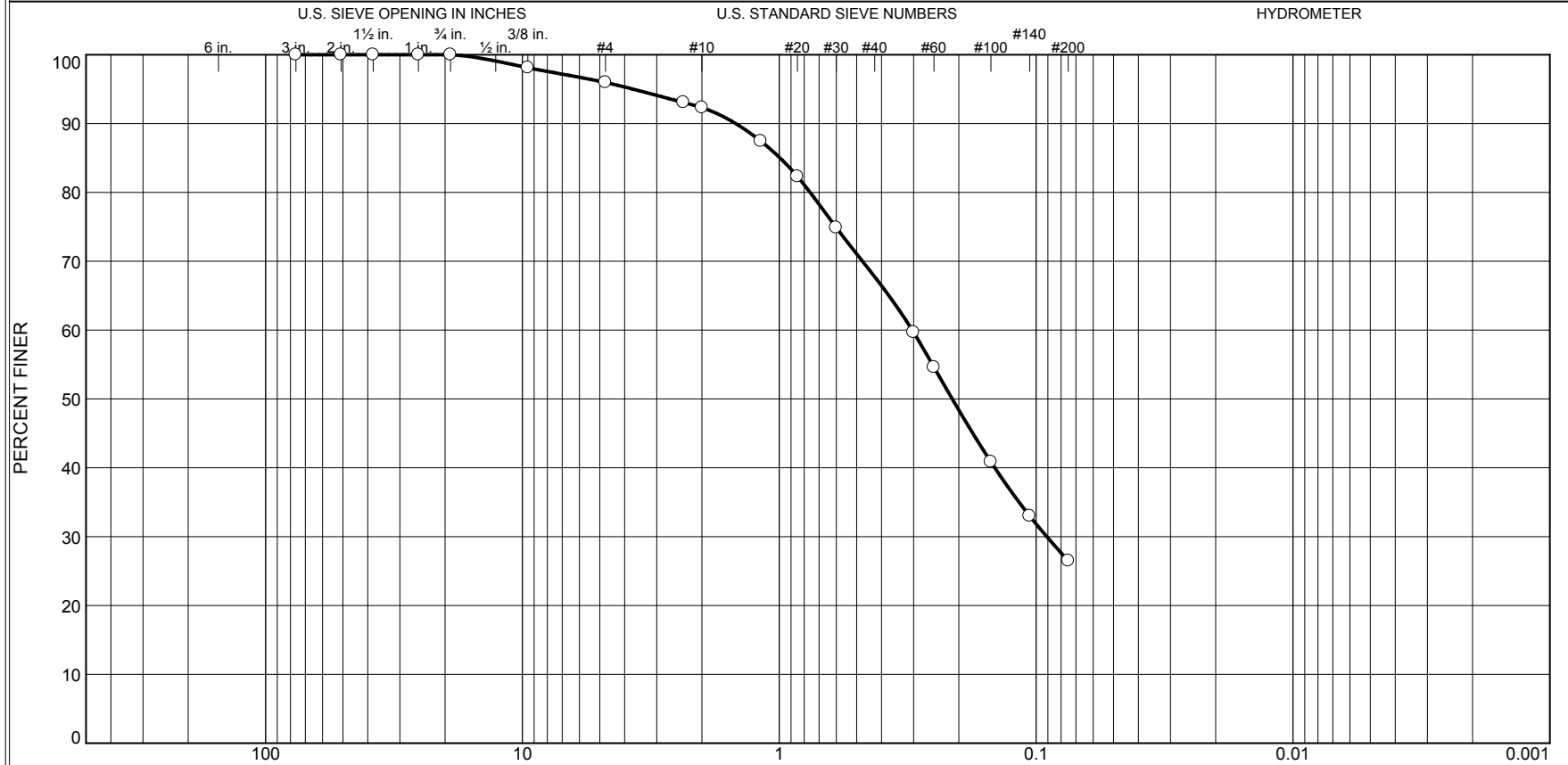
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.9	0.9	5.8	46.9	42.4	95.1			4.0

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.1570	0.1966	0.2310	0.2954	0.4618	0.5881	1.0950	1.3419	1.6927	2.1964

Fineness Modulus	C _u	C _c
2.22	3.74	0.94

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	4.0	3.7	24.6	41.2	26.5	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A9-RR209_12-13	Depth: 12.0-13.0	Sample Number: 1206126-03	06/04/2012	06/07/2012	06/11/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 10.3% Weight Dry Solids (grams): 310.67
Project RACR Lansing Plants		
Project No. B0064481.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A9-RR209_12-13

Depth: 12.0-13.0

Sample Number: 1206126-03

Material Description: Tan clay

Date Sampled: 06/04/2012

Date Received: 06/07/2012

Date Tested: 06/11/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 10.3%

Weight Dry Solids (grams): 310.67

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
310.67	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	411.82	411.82	100.0
		0.75"	439.13	439.13	100.0
		0.375"	414.05	408.19	98.1
		#4	385.30	378.64	96.0
		#8	381.86	372.84	93.1
		#10	351.96	349.63	92.3
		#16	316.93	301.81	87.4
		#20	301.22	285.25	82.3
		#30	305.24	282.17	74.9
		#50	296.05	248.79	59.7
		#60	252.94	237.22	54.6
		#100	269.04	226.28	40.8
		#140	235.96	211.57	33.0
		#200	232.93	212.69	26.5

Fractional Components

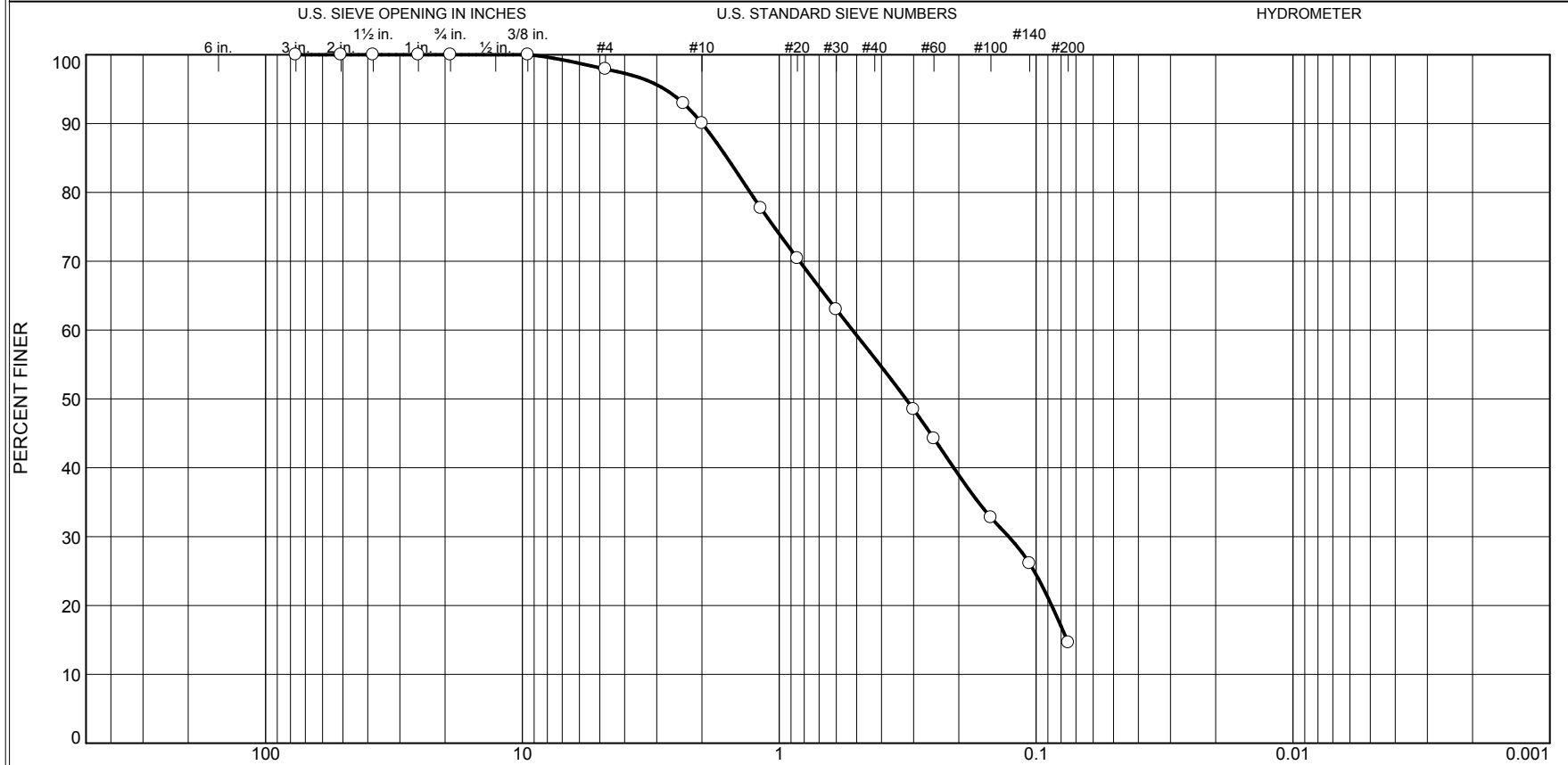
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	4.0	4.0	3.7	24.6	41.2	69.5			26.5

D10	D15	D20	D30	D50	D60	D80	D85	D90	D95
			0.0909	0.2121	0.3038	0.7584	0.9930	1.4762	3.7035

Fineness Modulus
1.50

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	2.1	7.9	34.1	41.3	14.6	

Identification				Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A9-RR209 17-18		Depth: 17.0-18.0	Sample Number: 1206126-04	06/04/2012	06/07/2012	06/11/2012

Client Arcadis - Brighton			○ Testing Procedure: ASTM D422-63 (07) Percent Moisture: 9.09% Weight Dry Solids (grams): 315.52
Project RACR Lansing Plants			
Project No. B0064481.2012.00105	Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A9-RR209_17-18

Depth: 17.0-18.0

Sample Number: 1206126-04

Material Description: Gray clay

Date Sampled: 06/04/2012

Date Received: 06/07/2012

Date Tested: 06/11/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 9.09%

Weight Dry Solids (grams): 315.52

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
315.52	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	411.83	411.83	100.0
		0.75"	439.15	439.15	100.0
		0.375"	408.19	408.19	100.0
		#4	385.20	378.62	97.9
		#8	388.53	372.82	92.9
		#10	358.77	349.61	90.0
		#16	340.72	301.87	77.7
		#20	308.34	285.30	70.4
		#30	305.79	282.39	63.0
		#50	295.18	249.35	48.5
		#60	250.56	237.24	44.3
		#100	262.73	226.51	32.8
		#140	232.75	211.67	26.1
		#200	262.45	226.23	14.6

Fractional Components

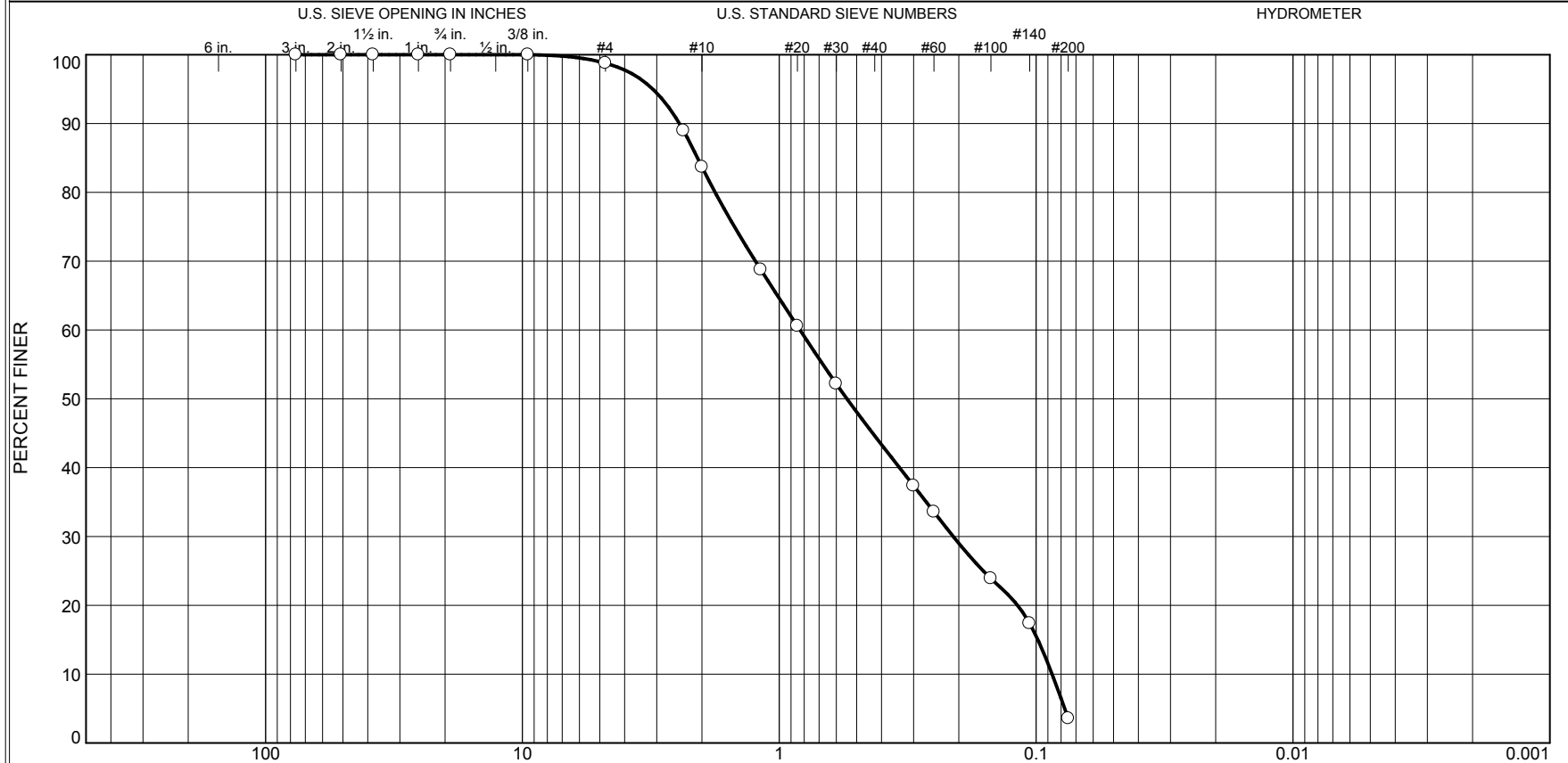
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	2.1	2.1	7.9	34.1	41.3	83.3			14.6

D10	D15	D20	D30	D50	D60	D80	D85	D90	D95
	0.0758	0.0870	0.1280	0.3213	0.5188	1.2977	1.5938	1.9968	2.7913

Fineness Modulus
1.87

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	1.2	15.1	39.1	41.0	3.6	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A9-RR209_22-23	Depth: 22.0-23.0	Sample Number: 1206126-05	06/05/2012	06/07/2012	06/11/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 14.7% Weight Dry Solids (grams): 291.66
Project RACR Lansing Plants		
Project No. B0064481.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A9-RR209_22-23

Depth: 22.0-23.0

Sample Number: 1206126-05

Material Description: Gray clay

Date Sampled: 06/05/2012

Date Received: 06/07/2012

Date Tested: 06/11/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 14.7%

Weight Dry Solids (grams): 291.66

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
291.66	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	411.77	411.77	100.0
		0.75"	439.11	439.11	100.0
		0.375"	408.11	408.11	100.0
		#4	382.20	378.61	98.8
		#8	401.35	372.80	89.0
		#10	365.03	349.61	83.7
		#16	345.47	301.94	68.8
		#20	309.19	285.26	60.6
		#30	306.94	282.46	52.2
		#50	292.59	249.44	37.4
		#60	248.27	237.15	33.6
		#100	255.00	226.77	23.9
		#140	231.26	212.27	17.4
		#200	267.29	227.01	3.6

Fractional Components

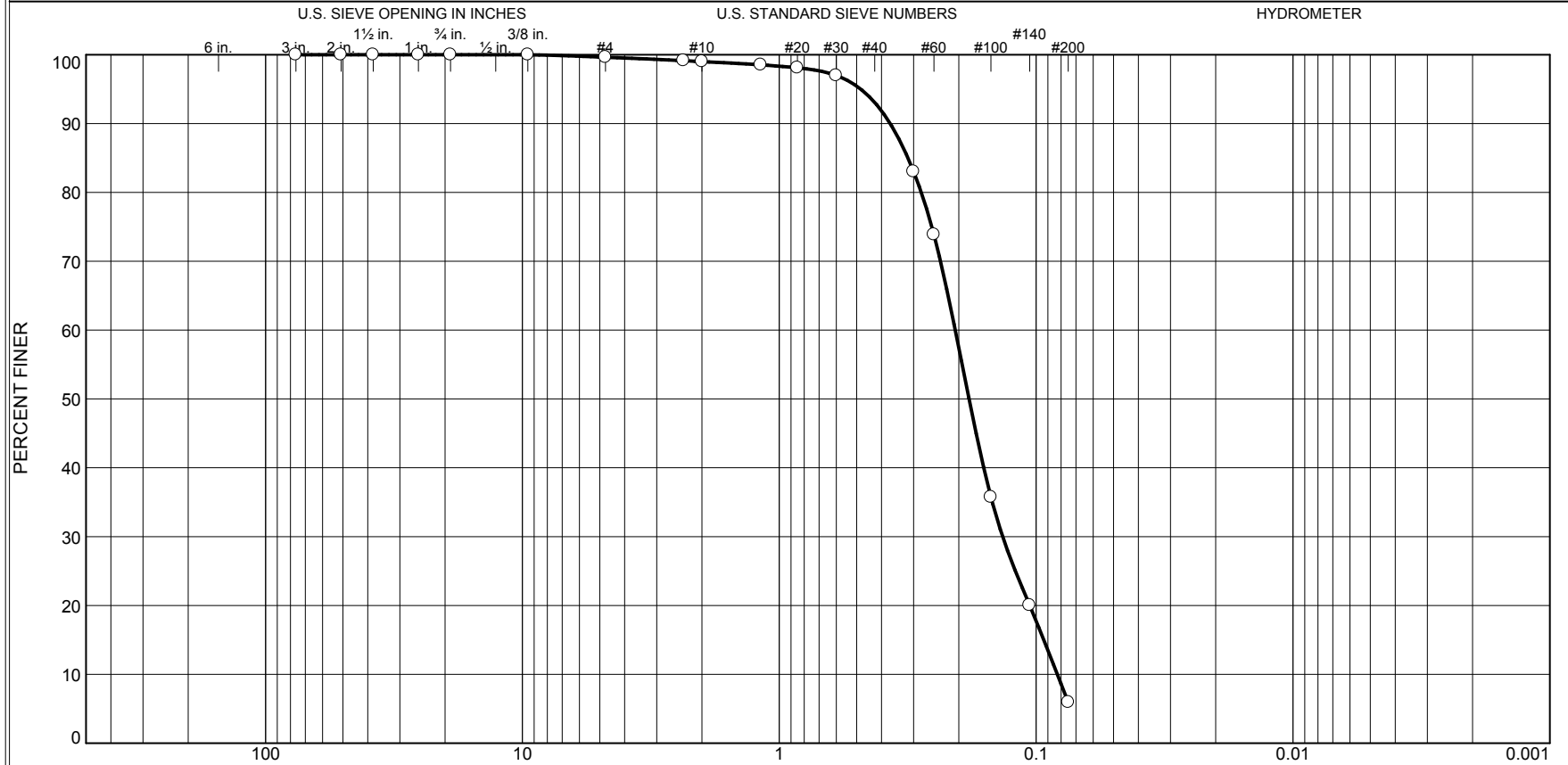
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	1.2	1.2	15.1	39.1	41.0	95.2			3.6

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.0867	0.0984	0.1182	0.2103	0.5453	0.8308	1.7771	2.0815	2.4470	3.1076

Fineness Modulus	C _u	C _c
2.30	9.59	0.61

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.4	0.6	5.9	87.2	5.9	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A9-RR209_27-28	Depth: 27.0-28.0	Sample Number: 1206126-06	06/05/2012	06/07/2012	06/11/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 7.5% Weight Dry Solids (grams): 285.19
Project RACR Lansing Plants		
Project No. B0064481.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A9-RR209_27-28

Depth: 27.0-28.0

Sample Number: 1206126-06

Material Description: Sand

Date Sampled: 06/05/2012

Date Received: 06/07/2012

Date Tested: 06/11/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 7.5%

Weight Dry Solids (grams): 285.19

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
285.19	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	411.77	411.77	100.0
		0.75"	439.11	439.11	100.0
		0.375"	408.23	408.23	100.0
		#4	379.70	378.66	99.6
		#8	374.26	372.85	99.1
		#10	350.05	349.65	99.0
		#16	303.46	302.13	98.5
		#20	286.65	285.41	98.1
		#30	285.72	282.54	97.0
		#50	289.92	250.11	83.0
		#60	263.40	237.30	73.9
		#100	336.21	227.48	35.7
		#140	257.81	212.96	20.0
		#200	267.37	227.19	5.9

Fractional Components

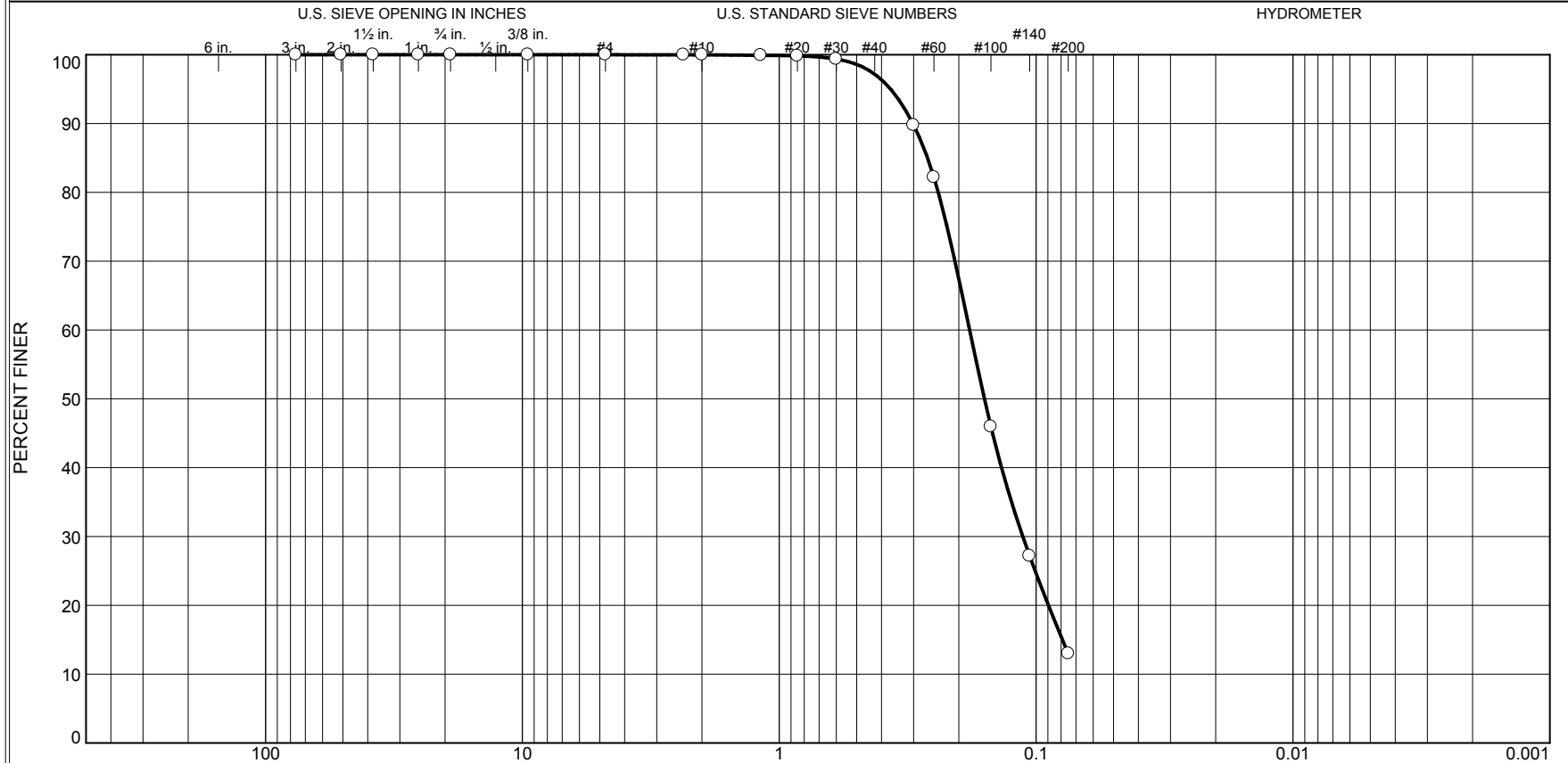
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.4	0.4	0.6	5.9	87.2	93.7			5.9

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.0827	0.0934	0.1059	0.1350	0.1824	0.2065	0.2800	0.3156	0.3702	0.4816

Fineness Modulus	C _u	C _c
0.87	2.50	1.07

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	2.8	84.2	13.0	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A9-RR209_28.5-30	Depth: 28.5-30.0	Sample Number: 1206126-07	06/05/2012	06/07/2012	06/11/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 6.05% Weight Dry Solids (grams): 307.79
Project RACR Lansing Plants		
Project No. B0064481.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A9-RR209_28.5-30

Depth: 28.5-30.0

Sample Number: 1206126-07

Material Description: Sand

Date Sampled: 06/05/2012

Date Received: 06/07/2012

Date Tested: 06/11/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 6.05%

Weight Dry Solids (grams): 307.79

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
307.79	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	411.77	411.77	100.0
		0.75"	439.11	439.11	100.0
		0.375"	408.23	408.23	100.0
		#4	378.66	378.66	100.0
		#8	372.89	372.82	100.0
		#10	349.63	349.63	100.0
		#16	302.20	301.99	99.9
		#20	285.60	285.35	99.8
		#30	283.86	282.45	99.4
		#50	279.87	250.33	89.8
		#60	260.94	237.58	82.2
		#100	339.49	227.98	46.0
		#140	270.64	212.83	27.2
		#200	270.65	226.93	13.0

Fractional Components

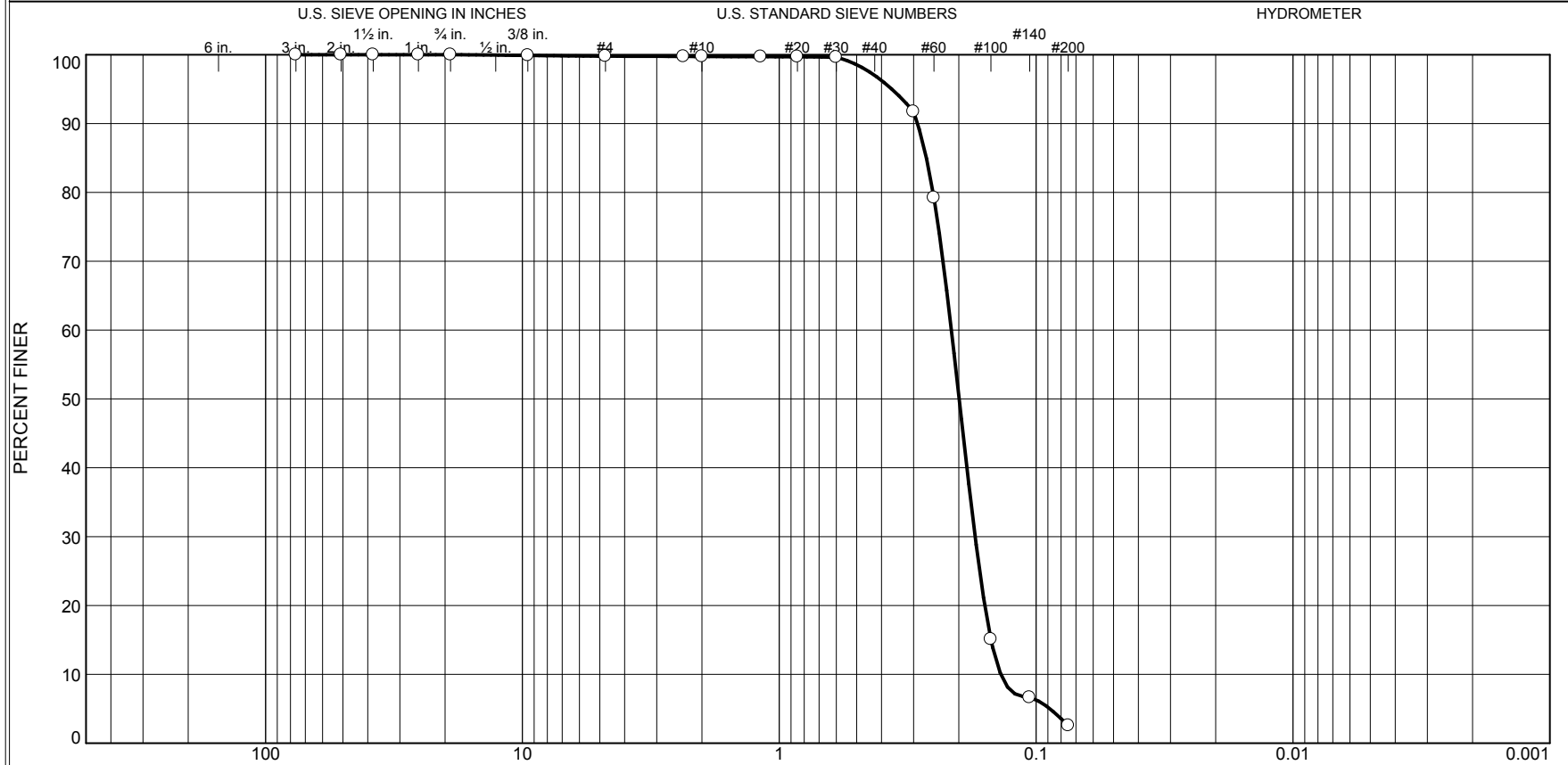
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	0.0	2.8	84.2	87.0			13.0

D10	D15	D20	D30	D50	D60	D80	D85	D90	D95
	0.0790	0.0895	0.1127	0.1589	0.1815	0.2405	0.2648	0.3021	0.3687

Fineness Modulus
0.65

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.2	0.1	2.7	94.4	2.6	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A9-RR209_31-32	Depth: 31.0-32.0	Sample Number: 1206126-08	06/05/2012	06/07/2012	06/12/2012

Client Arcadis - Brighton		○ Testing Procedure: ASTM D422-63 (07) Percent Moisture: 1.78% Weight Dry Solids (grams): 411.11
Project RACR Lansing Plants		
Project No. B0064481.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A9-RR209_31-32

Depth: 31.0-32.0

Sample Number: 1206126-08

Material Description: Sand

Date Sampled: 06/05/2012

Date Received: 06/07/2012

Date Tested: 06/12/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 1.78%

Weight Dry Solids (grams): 411.11

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
411.11	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	411.77	411.77	100.0
		0.75"	439.11	439.11	100.0
		0.375"	408.62	408.19	99.9
		#4	379.08	378.66	99.8
		#8	373.03	372.87	99.8
		#10	349.70	349.63	99.7
		#16	302.07	301.99	99.7
		#20	285.38	285.33	99.7
		#30	282.73	282.43	99.6
		#50	282.86	250.40	91.7
		#60	289.71	238.24	79.2
		#100	491.82	228.12	15.1
		#140	247.55	212.82	6.6
		#200	243.62	226.93	2.6

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.2	0.2	0.1	2.7	94.4	97.2			2.6

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.1373	0.1499	0.1585	0.1728	0.1994	0.2138	0.2520	0.2675	0.2897	0.3646

Fineness Modulus	C _u	C _c
0.94	1.56	1.02

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	2.1	3.5	25.1	52.4	16.9	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A9-RR209_35-36	Depth: 35.0-36.0	Sample Number: 1206126-09	06/05/2012	06/07/2012	06/12/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 10.7% Weight Dry Solids (grams): 330.28
Project RACR Lansing Plants		
Project No. B0064481.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A9-RR209_35-36

Depth: 35.0-36.0

Sample Number: 1206126-09

Material Description: Gray clay

Date Sampled: 06/05/2012

Date Received: 06/07/2012

Date Tested: 06/12/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 10.7%

Weight Dry Solids (grams): 330.28

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
330.28	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	411.77	411.77	100.0
		0.75"	439.11	439.11	100.0
		0.375"	408.23	408.23	100.0
		#4	385.54	378.62	97.9
		#8	381.52	372.91	95.3
		#10	352.57	349.63	94.4
		#16	325.50	301.95	87.3
		#20	301.72	285.29	82.3
		#30	302.79	282.34	76.1
		#50	298.97	250.52	61.4
		#60	253.89	237.95	56.6
		#100	276.50	226.49	41.5
		#140	243.38	212.95	32.3
		#200	277.41	226.59	16.9

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	2.1	2.1	3.5	25.1	52.4	81.0			16.9

D10	D15	D20	D30	D50	D60	D80	D85	D90	D95
		0.0799	0.0997	0.2008	0.2834	0.7418	1.0137	1.4039	2.2067

Fineness Modulus
1.40

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	3.7	4.7	13.9	57.1	20.6	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A9-RR209_38-38.5	Depth: 38.0-38.5	Sample Number: 1206126-10	06/05/2012	06/07/2012	06/12/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 11.4% Weight Dry Solids (grams): 334.47
Project RACR Lansing Plants		
Project No. B0064481.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A9-RR209_38-38.5

Depth: 38.0-38.5

Sample Number: 1206126-10

Material Description: Rocky sand

Date Sampled: 06/05/2012

Date Received: 06/07/2012

Date Tested: 06/12/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 11.4%

Weight Dry Solids (grams): 334.47

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
334.47	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	411.78	411.78	100.0
		0.75"	439.15	439.15	100.0
		0.375"	412.94	408.23	98.6
		#4	386.49	378.66	96.3
		#8	384.75	372.85	92.7
		#10	353.23	349.62	91.6
		#16	312.85	302.04	88.4
		#20	291.65	285.37	86.5
		#30	291.80	282.58	83.7
		#50	300.47	250.68	68.9
		#60	255.27	238.17	63.7
		#100	279.81	227.35	48.1
		#140	258.80	211.85	34.0
		#200	271.63	226.78	20.6

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	3.7	3.7	4.7	13.9	57.1	75.7			20.6

D10	D15	D20	D30	D50	D60	D80	D85	D90	D95
			0.0958	0.1583	0.2187	0.4748	0.6786	1.5492	3.5766

Fineness Modulus
1.23

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	2.7	7.7	30.8	51.1	7.7	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A9-RR209_40-41	Depth: 40.0-41.0	Sample Number: 1206126-11	06/05/2012	06/07/2012	06/12/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 11.2% Weight Dry Solids (grams): 313.70
Project RACR Lansing Plants		
Project No. B0064481.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A9-RR209_40-41

Depth: 40.0-41.0

Sample Number: 1206126-11

Material Description: Clay

Date Sampled: 06/05/2012

Date Received: 06/07/2012

Date Tested: 06/12/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 11.2%

Weight Dry Solids (grams): 313.70

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
313.70	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	411.81	411.81	100.0
		0.75"	439.12	439.12	100.0
		0.375"	412.14	408.18	98.7
		#4	383.26	378.62	97.3
		#8	388.29	372.86	92.3
		#10	358.17	349.64	89.6
		#16	337.11	301.97	78.4
		#20	306.11	285.32	71.8
		#30	303.98	282.50	64.9
		#50	290.80	250.55	52.1
		#60	250.77	238.10	48.1
		#100	263.66	226.62	36.3
		#140	242.70	212.48	26.6
		#200	286.31	226.87	7.7

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	2.7	2.7	7.7	30.8	51.1	89.6			7.7

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.0779	0.0846	0.0924	0.1164	0.2722	0.4559	1.2697	1.5931	2.0422	2.9987

Fineness Modulus	C _u	C _c
1.80	5.85	0.38

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	2.0	5.1	30.2	60.9	1.8	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A9-RR209_45-46	Depth: 45.0-46.0	Sample Number: 1206126-12	06/05/2012	06/07/2012	06/12/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 10.6% Weight Dry Solids (grams): 322.70
Project RACR Lansing Plants		
Project No. B0064481.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A9-RR209_45-46

Depth: 45.0-46.0

Sample Number: 1206126-12

Material Description: Gray clay

Date Sampled: 06/05/2012

Date Received: 06/07/2012

Date Tested: 06/12/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 10.6%

Weight Dry Solids (grams): 322.70

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
322.70	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	411.81	411.81	100.0
		0.75"	439.12	439.12	100.0
		0.375"	411.02	408.11	99.1
		#4	382.08	378.59	98.0
		#8	383.24	372.88	94.8
		#10	355.90	349.60	92.9
		#16	332.62	302.04	83.4
		#20	307.15	285.35	76.6
		#30	306.00	282.68	69.4
		#50	295.20	251.70	55.9
		#60	251.53	238.50	51.9
		#100	286.59	227.99	33.7
		#140	265.11	213.50	17.7
		#200	278.78	227.45	1.8

Fractional Components

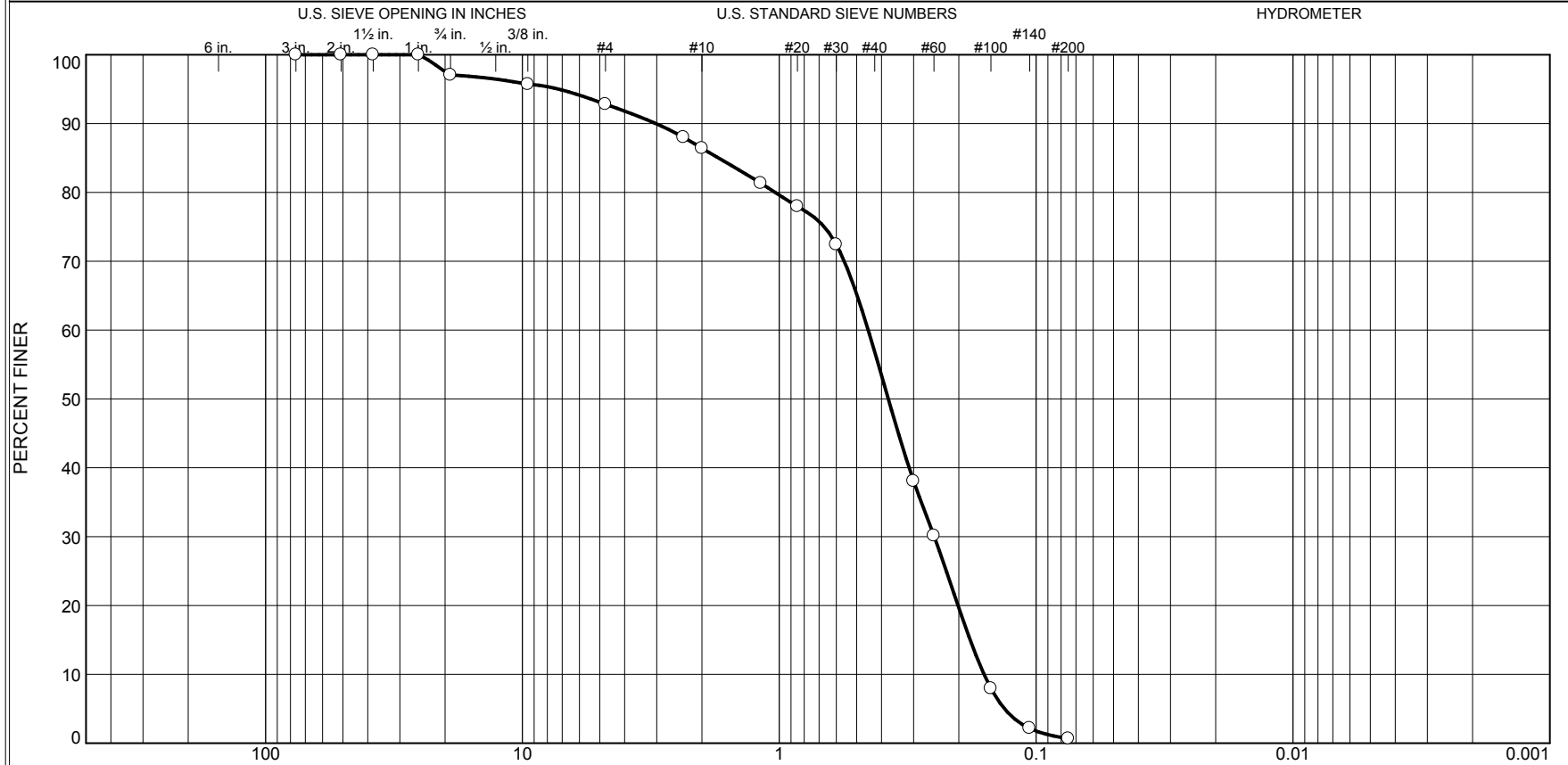
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	2.0	2.0	5.1	30.2	60.9	96.2			1.8

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.0897	0.1000	0.1113	0.1380	0.2332	0.3691	1.0003	1.2787	1.6658	2.4076

Fineness Modulus	C _u	C _c
1.66	4.11	0.58

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	2.9	4.3	6.4	29.6	56.1	0.7	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A9-RR209_48-51	Depth: 48.0-51.0	Sample Number: 1206126-13	06/05/2012	06/07/2012	06/12/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 15.4% Weight Dry Solids (grams): 478.29
Project RACR Lansing Plants		
Project No. B0064481.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A9-RR209_48-51

Depth: 48.0-51.0

Sample Number: 1206126-13

Material Description: Sand

Date Sampled: 06/05/2012

Date Received: 06/07/2012

Date Tested: 06/12/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 15.4%

Weight Dry Solids (grams): 478.29

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
478.29	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	411.81	411.81	100.0
		0.75"	453.21	439.12	97.1
		0.375"	414.66	408.22	95.7
		#4	392.48	378.63	92.8
		#8	395.88	372.88	88.0
		#10	357.25	349.66	86.4
		#16	326.30	302.01	81.3
		#20	301.47	285.34	78.0
		#30	309.12	282.64	72.4
		#50	416.27	251.93	38.1
		#60	276.58	238.61	30.1
		#100	334.79	228.72	8.0
		#140	241.36	213.65	2.2
		#200	234.23	227.02	0.7

Fractional Components

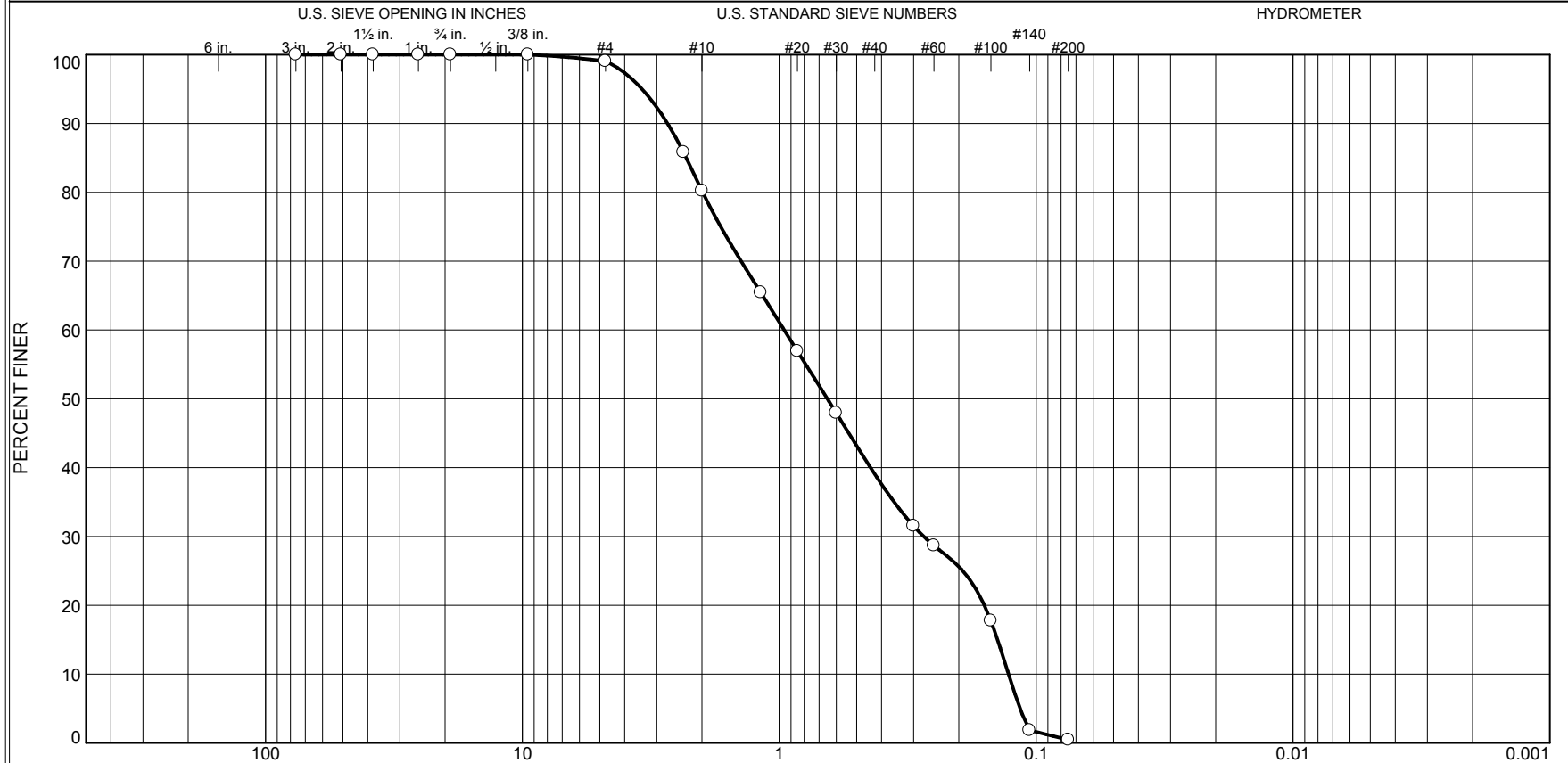
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	2.9	4.3	7.2	6.4	29.6	56.1	92.1			0.7

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.1596	0.1807	0.2014	0.2493	0.3764	0.4507	1.0375	1.7243	3.0235	7.2213

Fineness Modulus	C _u	C _c
2.27	2.82	0.86

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.9	18.9	41.1	38.6	0.5	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A9-RR209_54-55	Depth: 54.0-55.0	Sample Number: 1206126-14	06/05/2012	06/07/2012	06/12/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 15.6% Weight Dry Solids (grams): 301.17
Project RACR Lansing Plants		
Project No. B0064481.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A9-RR209_54-55

Depth: 54.0-55.0

Sample Number: 1206126-14

Material Description: Tan/gray clay

Date Sampled: 06/05/2012

Date Received: 06/07/2012

Date Tested: 06/12/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 15.6%

Weight Dry Solids (grams): 301.17

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
301.17	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	411.81	411.81	100.0
		0.75"	439.12	439.12	100.0
		0.375"	408.20	408.20	100.0
		#4	381.48	378.63	99.1
		#8	412.77	372.91	85.8
		#10	366.45	349.60	80.2
		#16	346.75	302.20	65.4
		#20	311.09	285.43	56.9
		#30	310.03	283.00	47.9
		#50	301.41	251.96	31.5
		#60	248.10	239.53	28.7
		#100	261.11	228.17	17.7
		#140	261.19	213.31	1.8
		#200	231.29	227.12	0.5

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.9	0.9	18.9	41.1	38.6	98.6			0.5

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.1281	0.1413	0.1590	0.2740	0.6498	0.9574	1.9866	2.3018	2.7225	3.4198

Fineness Modulus	C _u	C _c
2.53	7.47	0.61

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	4.2	9.3	31.6	40.5	14.4	

Identification				Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A5.7-MB257-1-2 Depth: 1.0-2.0 Sample Number: 1206126-15				05/24/2012	06/07/2012	06/12/2012

Client Arcadis - Brighton			○ Testing Procedure: ASTM D422-63 (07) Percent Moisture: 11% Weight Dry Solids (grams): 303.41
Project RACR Lansing Plants			
Project No. B0064481.2012.00105	Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A5.7-MB257-1-2

Depth: 1.0-2.0

Sample Number: 1206126-15

Material Description: Tan clay

Date Sampled: 05/24/2012

Date Received: 06/07/2012

Date Tested: 06/12/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 11%

Weight Dry Solids (grams): 303.41

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
303.41	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	411.81	411.81	100.0
		0.75"	439.12	439.12	100.0
		0.375"	412.38	408.20	98.6
		#4	387.24	378.62	95.8
		#8	390.32	372.90	90.0
		#10	360.36	349.60	86.5
		#16	335.95	302.31	75.4
		#20	305.47	285.50	68.8
		#30	303.81	283.06	62.0
		#50	296.05	253.21	47.9
		#60	250.97	240.06	44.3
		#100	258.73	227.74	34.1
		#140	232.51	212.63	27.5
		#200	266.97	227.20	14.4

Fractional Components

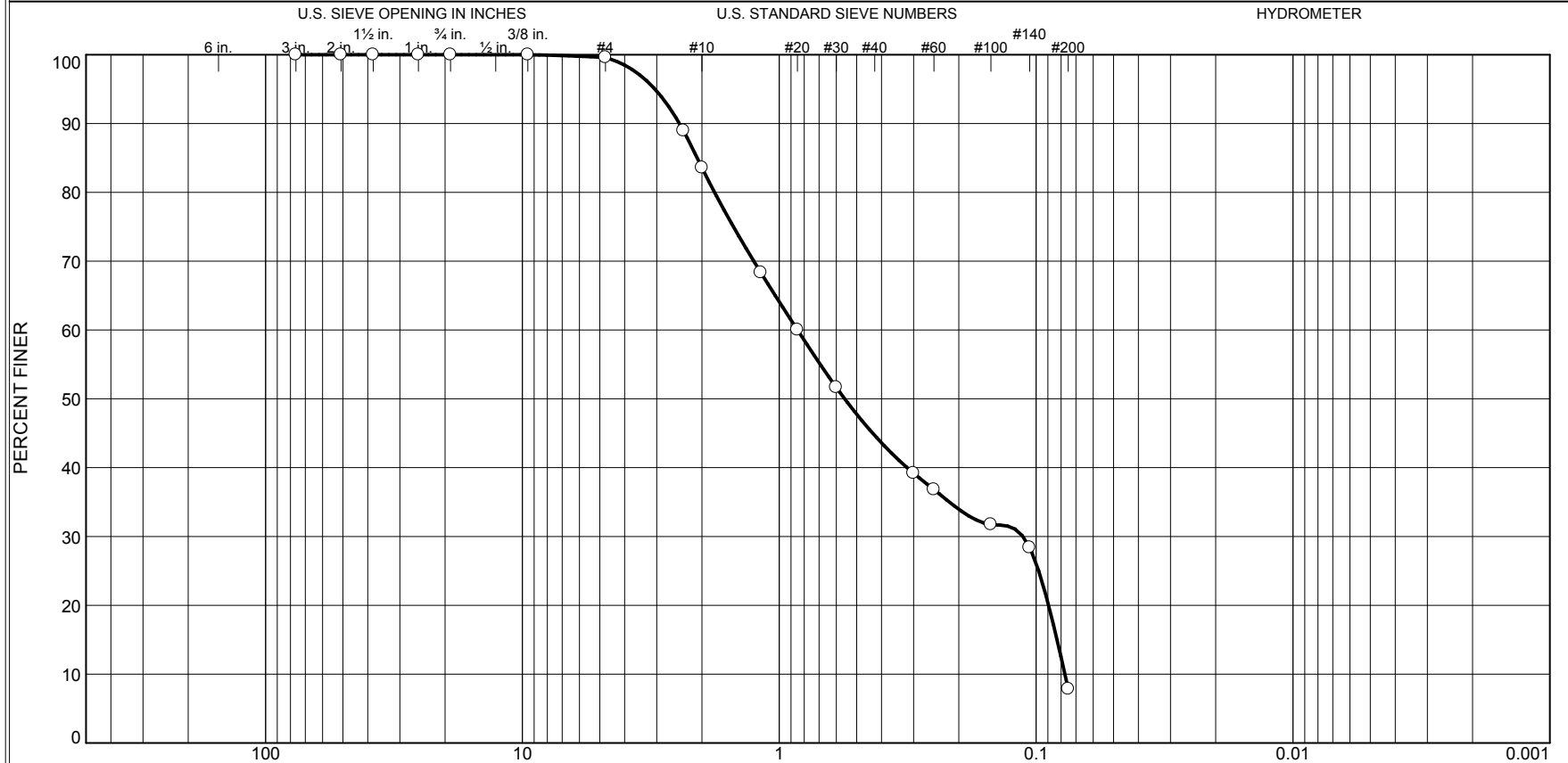
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	4.2	4.2	9.3	31.6	40.5	81.4			14.4

D10	D15	D20	D30	D50	D60	D80	D85	D90	D95
	0.0761	0.0856	0.1178	0.3339	0.5437	1.4773	1.8694	2.3551	3.8441

Fineness Modulus
1.96

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.4	16.0	38.9	36.9	7.8	

Identification				Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A5.7-MB257-5-6 Depth: 5.0-6.0 Sample Number: 1206126-16				05/24/2012	06/07/2012	06/12/2012

Client Arcadis - Brighton			○ Testing Procedure: ASTM D422-63 (07) Percent Moisture: 15.3% Weight Dry Solids (grams): 297.13
Project RACR Lansing Plants			
Project No. B0064481.2012.00105	Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A5.7-MB257-5-6

Depth: 5.0-6.0

Sample Number: 1206126-16

Date Sampled: 05/24/2012

Date Received: 06/07/2012

Date Tested: 06/12/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 15.3%

Weight Dry Solids (grams): 297.13

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
297.13	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	439.12	439.12	100.0
		0.75"	408.20	408.20	100.0
		0.375"	408.23	408.23	100.0
		#4	379.87	378.66	99.6
		#8	404.47	372.85	89.0
		#10	365.55	349.62	83.6
		#16	347.61	302.33	68.4
		#20	310.38	285.60	60.0
		#30	307.91	283.07	51.7
		#50	288.94	251.89	39.2
		#60	246.45	239.43	36.8
		#100	242.73	227.61	31.7
		#140	222.74	212.80	28.4
		#200	288.11	227.05	7.8

Fractional Components

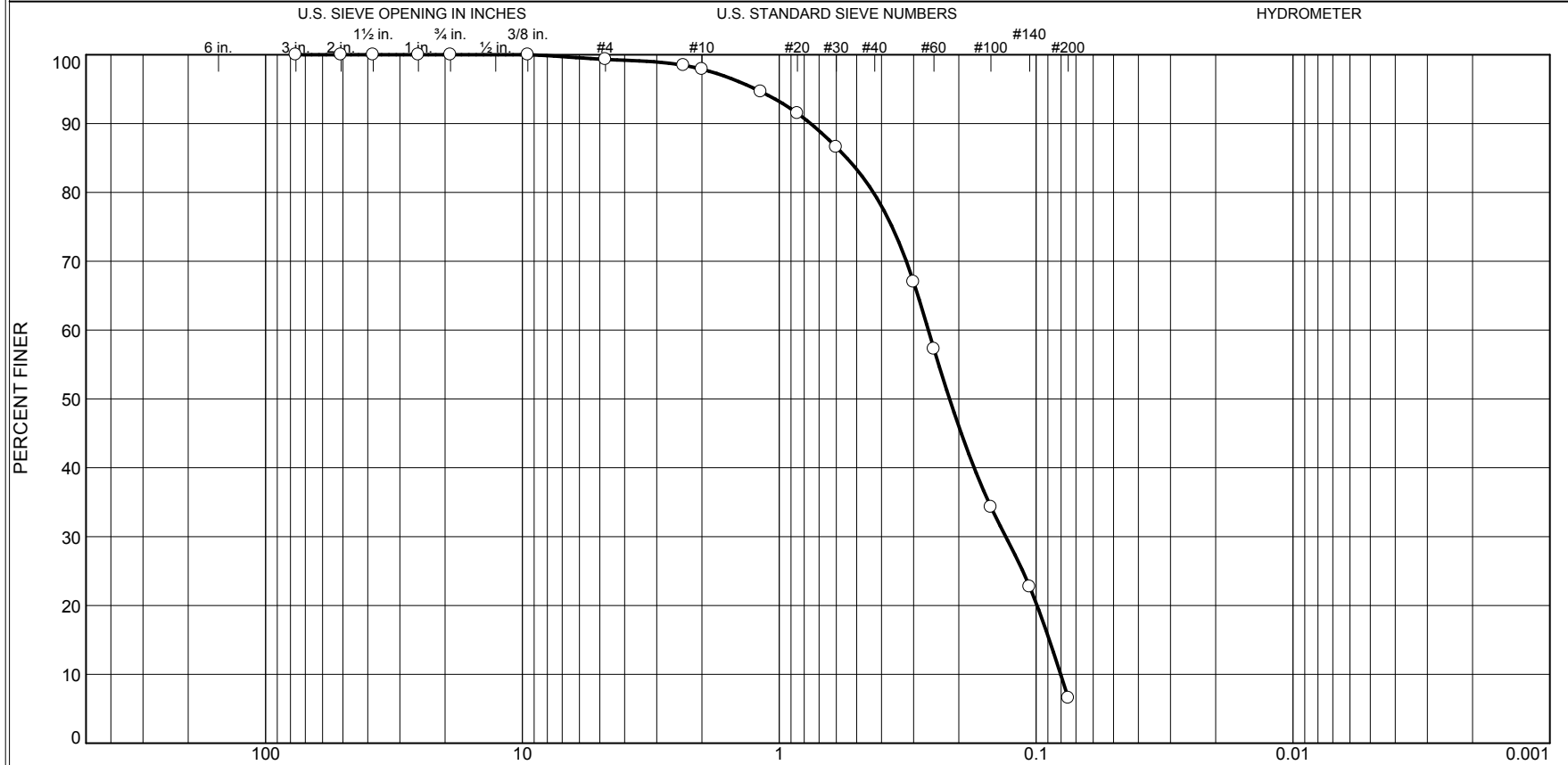
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.4	0.4	16.0	38.9	36.9	91.8			7.8

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.0773	0.0829	0.0894	0.1126	0.5565	0.8496	1.7863	2.0871	2.4469	3.0489

Fineness Modulus	C _u	C _c
2.21	10.99	0.19

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.7	1.4	18.2	73.1	6.6	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A5.7-MB257-7-7.5	Depth: 7.0-7.5	Sample Number: 1206126-17	05/24/2012	06/07/2012	06/12/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 12.8% Weight Dry Solids (grams): 155.30
Project RACR Lansing Plants		
Project No. B0064481.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A5.7-MB257-7-7.5

Depth: 7.0-7.5

Sample Number: 1206126-17

Date Sampled: 05/24/2012

Date Received: 06/07/2012

Date Tested: 06/12/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 12.8%

Weight Dry Solids (grams): 155.30

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
155.30	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	439.12	439.12	100.0
		0.75"	408.20	408.20	100.0
		0.375"	408.23	408.23	100.0
		#4	379.66	378.60	99.3
		#8	374.19	372.87	98.5
		#10	350.50	349.61	97.9
		#16	307.39	302.34	94.6
		#20	290.44	285.55	91.5
		#30	290.70	283.07	86.6
		#50	281.89	251.46	67.0
		#60	254.74	239.64	57.3
		#100	263.59	227.93	34.3
		#140	231.10	213.13	22.7
		#200	252.62	227.52	6.6

Fractional Components

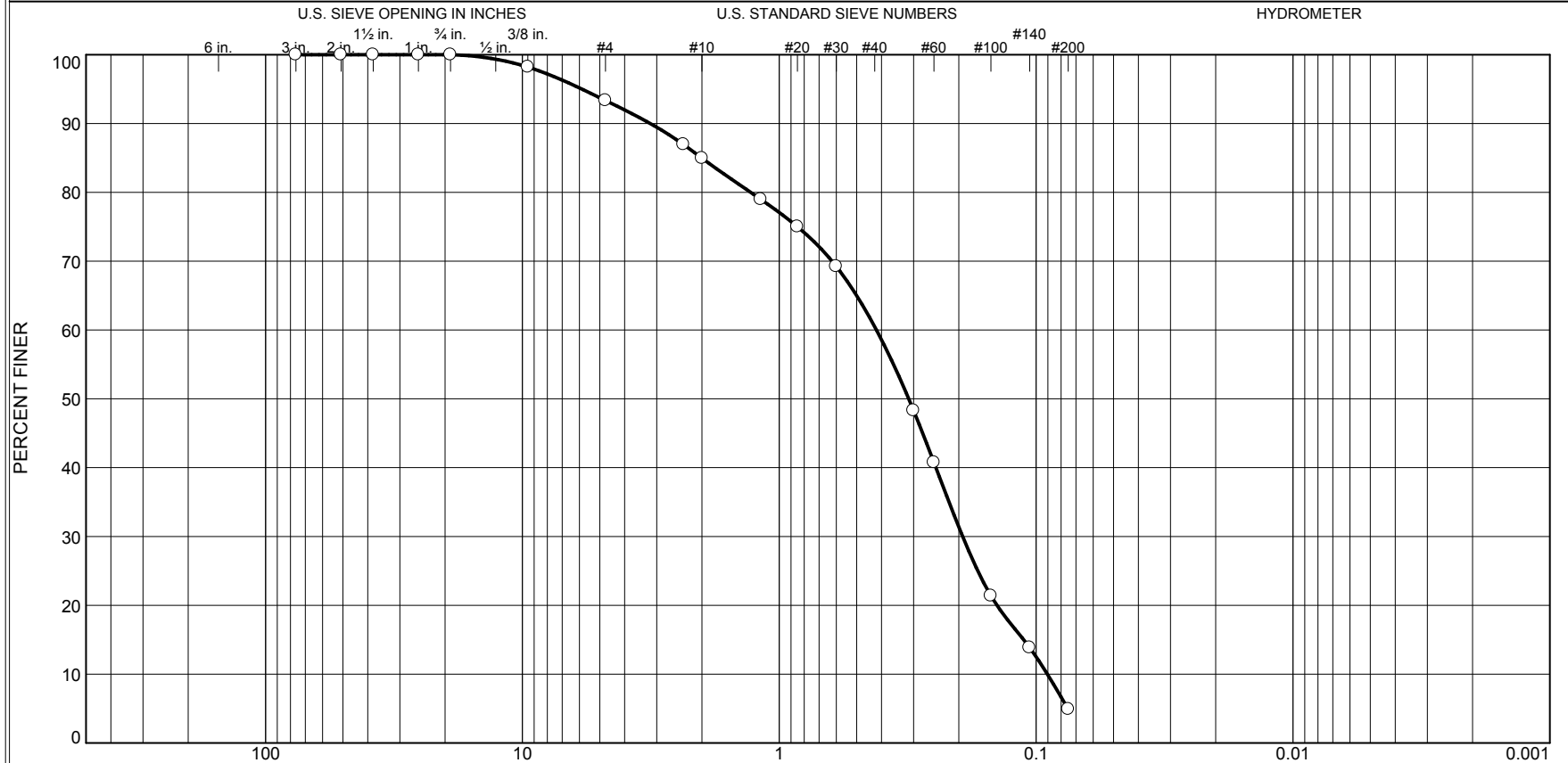
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.7	0.7	1.4	18.2	73.1	92.7			6.6

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.0803	0.0888	0.0992	0.1314	0.2173	0.2629	0.4303	0.5461	0.7549	1.2348

Fineness Modulus	C _u	C _c
1.20	3.27	0.82

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	6.7	8.3	24.5	55.6	4.9	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A5.7-MB257-7.5-9.5	Depth: 7.5-9.5	Sample Number: 1206126-18	05/24/2012	06/07/2012	06/12/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 13.1% Weight Dry Solids (grams): 445.33
Project RACR Lansing Plants		
Project No. B0064481.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A5.7-MB257-7.5-9.5

Depth: 7.5-9.5

Sample Number: 1206126-18

Date Sampled: 05/24/2012

Date Received: 06/07/2012

Date Tested: 06/12/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 13.1%

Weight Dry Solids (grams): 445.33

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
445.33	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	439.12	439.12	100.0
		0.75"	408.20	408.20	100.0
		0.375"	416.20	408.23	98.2
		#4	400.26	378.61	93.3
		#8	401.31	372.83	87.0
		#10	358.37	349.53	85.0
		#16	328.92	302.28	79.0
		#20	303.27	285.53	75.0
		#30	308.67	282.99	69.2
		#50	344.21	250.96	48.3
		#60	272.89	239.31	40.8
		#100	313.97	227.66	21.4
		#140	246.35	212.86	13.9
		#200	267.01	227.08	4.9

Fractional Components

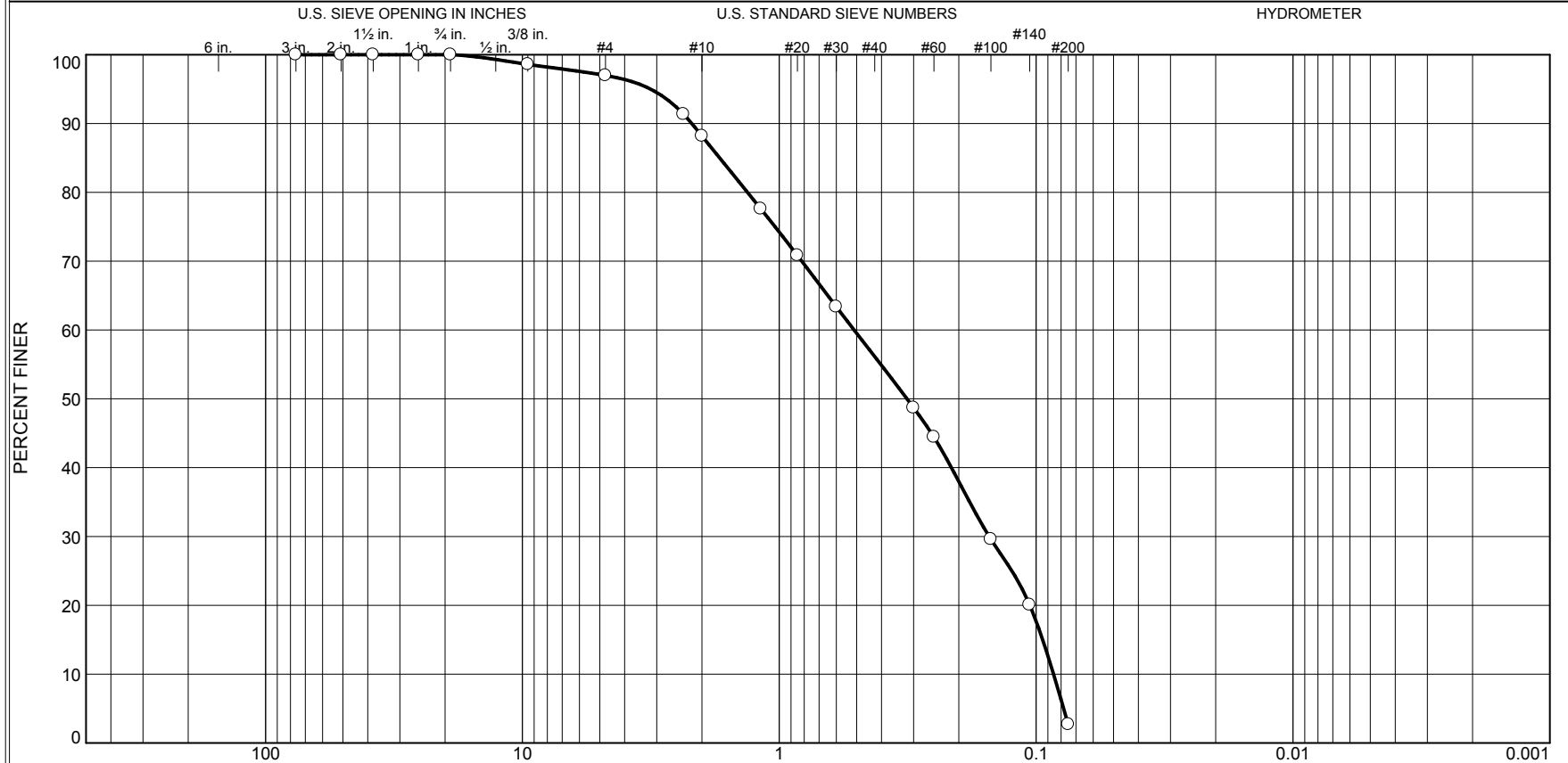
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	6.7	6.7	8.3	24.5	55.6	88.4			4.9

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.0904	0.1119	0.1422	0.1932	0.3134	0.4185	1.2918	2.0053	3.1784	5.8616

Fineness Modulus	C _u	C _c
2.04	4.63	0.99

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	3.0	8.8	32.1	53.4	2.7	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A5.7-MB257-9.5-12	Depth: 9.5-12.0	Sample Number: 1206126-19	05/24/2012	06/07/2012	06/12/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 11.7% Weight Dry Solids (grams): 334.20
Project RACR Lansing Plants		
Project No. B0064481.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A5.7-MB257-9.5-12

Depth: 9.5-12.0

Sample Number: 1206126-19

Material Description: Clay

Date Sampled: 05/24/2012

Date Received: 06/07/2012

Date Tested: 06/12/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 11.7%

Weight Dry Solids (grams): 334.20

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
334.20	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	439.12	439.12	100.0
		0.75"	408.20	408.20	100.0
		0.375"	412.91	408.21	98.6
		#4	384.01	378.64	97.0
		#8	391.66	372.86	91.4
		#10	360.20	349.59	88.2
		#16	337.77	302.40	77.6
		#20	308.27	285.64	70.8
		#30	308.09	283.17	63.4
		#50	300.24	251.20	48.7
		#60	253.78	239.52	44.4
		#100	277.70	228.07	29.6
		#140	244.84	213.06	20.1
		#200	285.14	227.01	2.7

Fractional Components

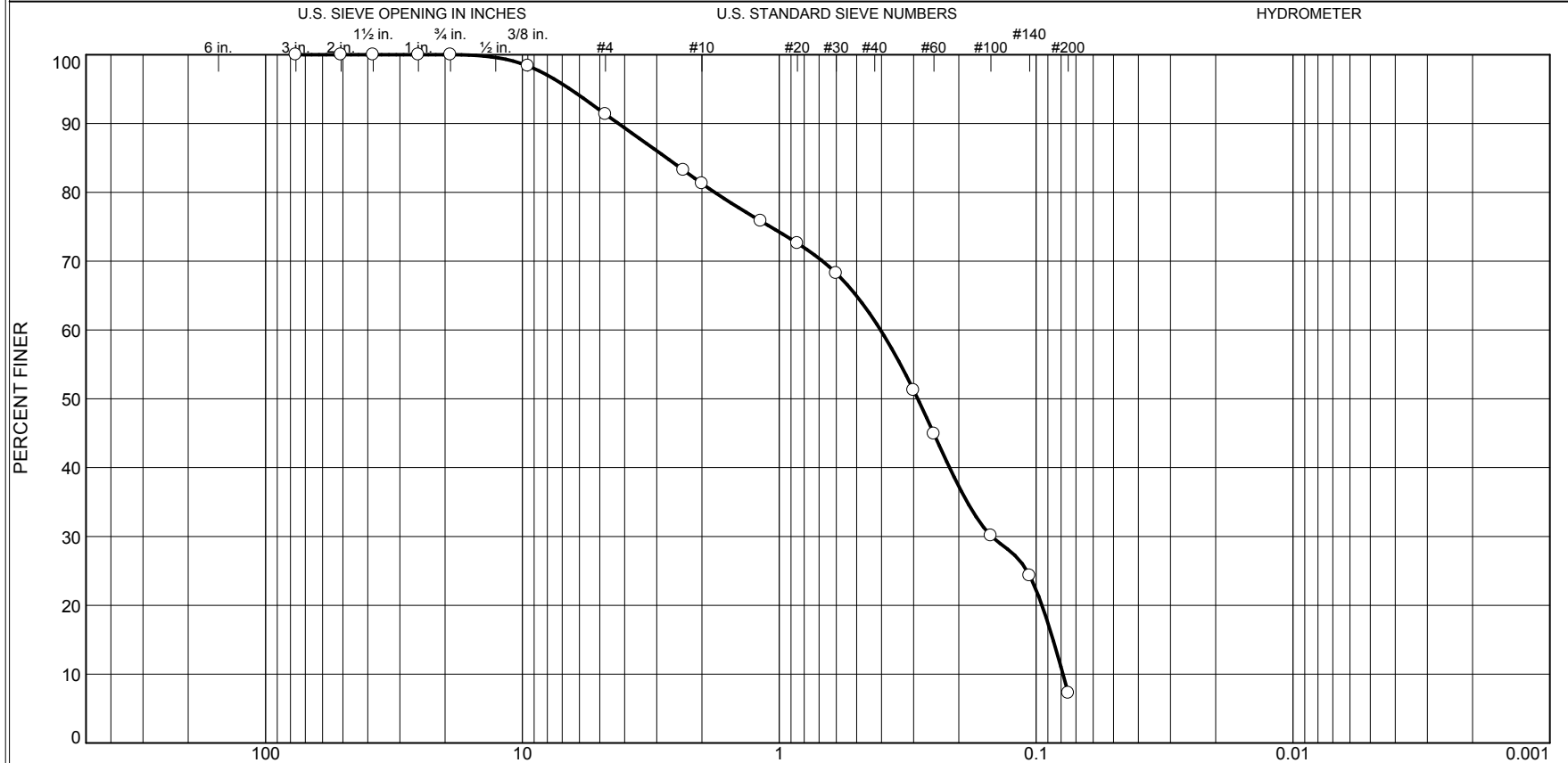
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	3.0	3.0	8.8	32.1	53.4	94.3			2.7

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.0855	0.0943	0.1058	0.1524	0.3184	0.5113	1.3290	1.7062	2.1911	3.1680

Fineness Modulus	C _u	C _c
1.94	5.98	0.53

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	8.6	10.1	20.0	54.1	7.2	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A5.7-MB257-12-13	Depth: 12.0-13.0	Sample Number: 1206126-20	05/24/2012	06/07/2012	06/12/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 8.34% Weight Dry Solids (grams): 366.22
Project RACR Lansing Plants		
Project No. B0064481.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A5.7-MB257-12-13

Depth: 12.0-13.0

Sample Number: 1206126-20

Material Description: Rocky clay

Date Sampled: 05/24/2012

Date Received: 06/07/2012

Date Tested: 06/12/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 8.34%

Weight Dry Solids (grams): 366.22

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
366.22	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	439.12	439.12	100.0
		0.75"	408.20	408.20	100.0
		0.375"	414.16	408.21	98.4
		#4	404.31	378.61	91.4
		#8	402.57	372.82	83.2
		#10	356.75	349.60	81.3
		#16	322.43	302.46	75.8
		#20	297.45	285.63	72.6
		#30	299.24	283.25	68.2
		#50	314.68	252.50	51.3
		#60	263.28	240.05	44.9
		#100	282.26	228.08	30.1
		#140	234.25	212.96	24.3
		#200	290.07	227.60	7.2

Fractional Components

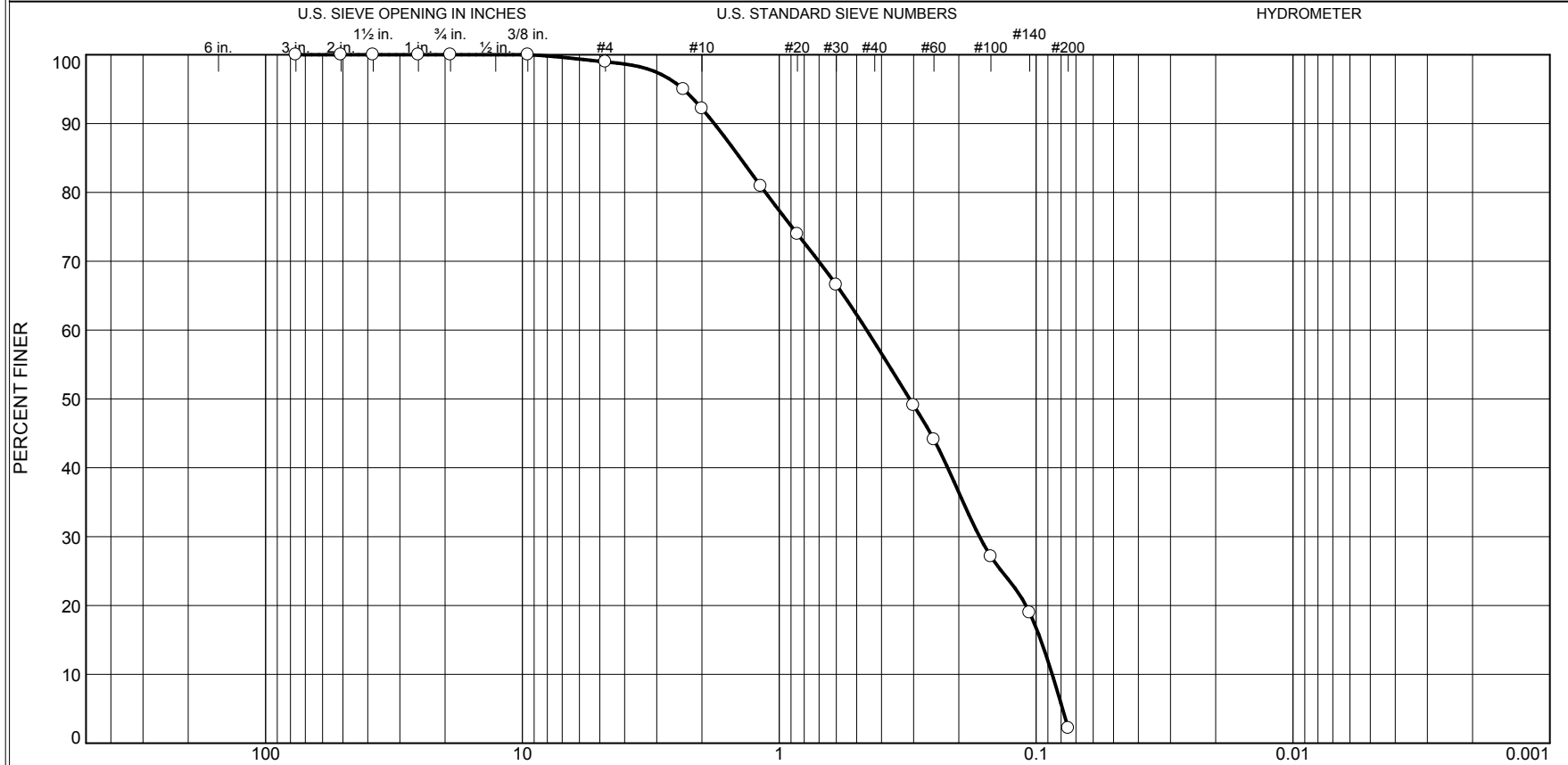
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	8.6	8.6	10.1	20.0	54.1	84.2			7.2

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.0786	0.0859	0.0949	0.1489	0.2890	0.4035	1.7832	2.7426	4.2275	6.5210

Fineness Modulus	C _u	C _c
2.02	5.13	0.70

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	1.0	6.8	34.1	55.9	2.2	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A5.7-MB257-17-18	Depth: 17.0-18.0	Sample Number: 1206126-21	05/24/2012	06/07/2012	06/12/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 11.2% Weight Dry Solids (grams): 320.93
Project RACR Lansing Plants		
Project No. B0064481.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A5.7-MB257-17-18

Depth: 17.0-18.0

Sample Number: 1206126-21

Material Description: Gray clay

Date Sampled: 05/24/2012

Date Received: 06/07/2012

Date Tested: 06/12/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 11.2%

Weight Dry Solids (grams): 320.93

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
320.93	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	439.12	439.12	100.0
		0.75"	408.20	408.20	100.0
		0.375"	408.21	408.21	100.0
		#4	381.95	378.62	99.0
		#8	385.62	372.79	95.0
		#10	358.64	349.68	92.2
		#16	338.59	302.45	80.9
		#20	307.98	285.64	74.0
		#30	307.00	283.30	66.6
		#50	308.58	252.46	49.1
		#60	255.92	239.95	44.1
		#100	282.97	228.39	27.1
		#140	239.33	213.19	19.0
		#200	281.48	227.61	2.2

Fractional Components

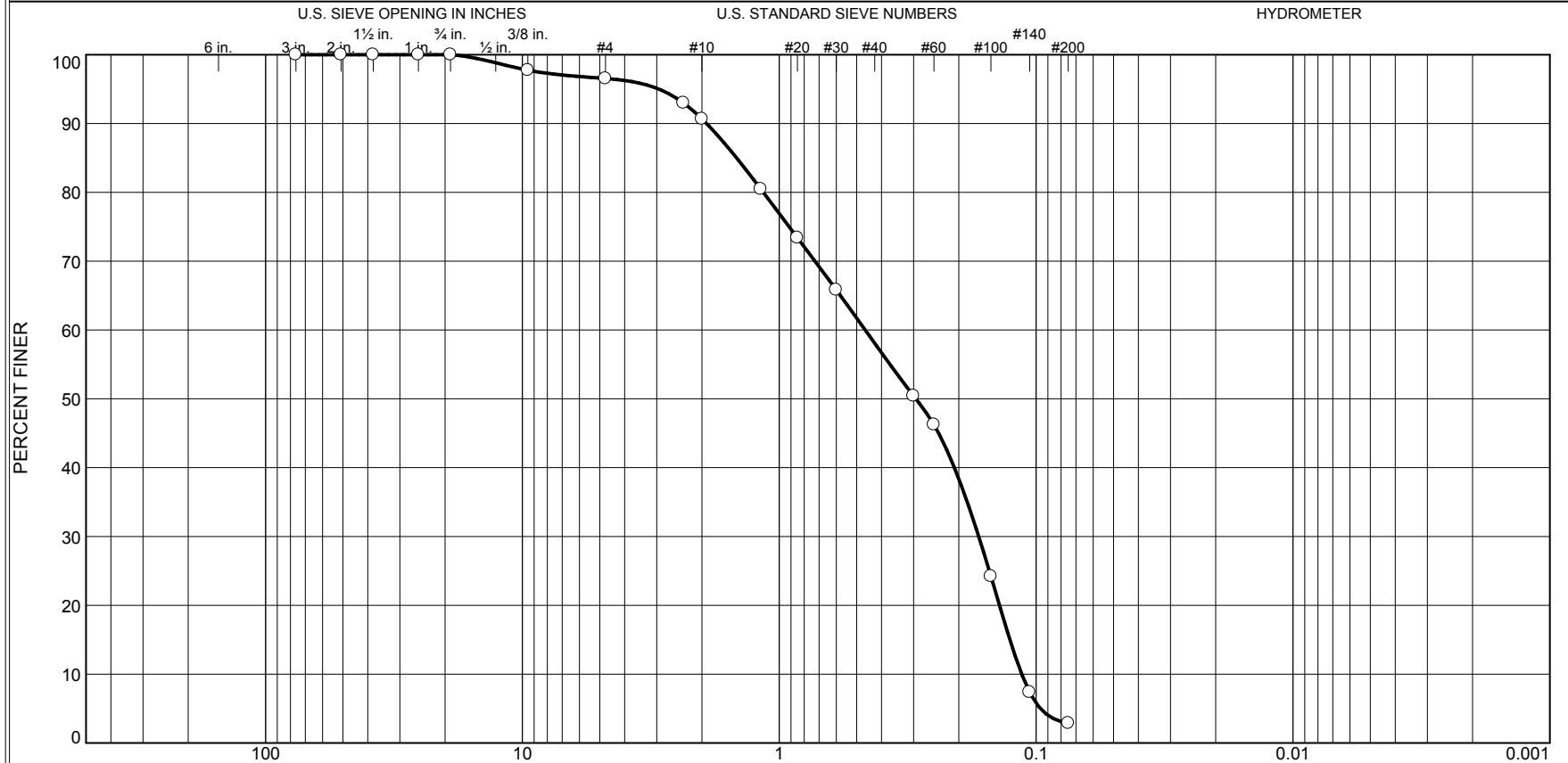
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	1.0	1.0	6.8	34.1	55.9	96.8			2.2

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.0866	0.0959	0.1096	0.1662	0.3108	0.4570	1.1317	1.4192	1.7910	2.3659

Fineness Modulus	C _u	C _c
1.82	5.28	0.70

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	3.5	5.8	32.6	55.3	2.8	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A5.7-MB257-22-23	Depth: 22.0-23.0	Sample Number: 1206126-22	05/24/2012	06/07/2012	06/12/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 10.6% Weight Dry Solids (grams): 304.72
Project RACR Lansing Plants		
Project No. B0064481.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A5.7-MB257-22-23

Depth: 22.0-23.0

Sample Number: 1206126-22

Material Description: Clay

Date Sampled: 05/24/2012

Date Received: 06/07/2012

Date Tested: 06/12/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 10.6%

Weight Dry Solids (grams): 304.72

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
304.72	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	439.12	439.12	100.0
		0.75"	408.20	408.20	100.0
		0.375"	415.06	408.21	97.8
		#4	382.31	378.62	96.5
		#8	383.65	372.83	93.0
		#10	356.72	349.64	90.7
		#16	333.57	302.53	80.5
		#20	307.31	285.68	73.4
		#30	306.29	283.25	65.8
		#50	299.61	252.67	50.4
		#60	252.78	240.04	46.2
		#100	296.06	228.98	24.2
		#140	264.89	213.54	7.4
		#200	240.76	226.98	2.8

Fractional Components

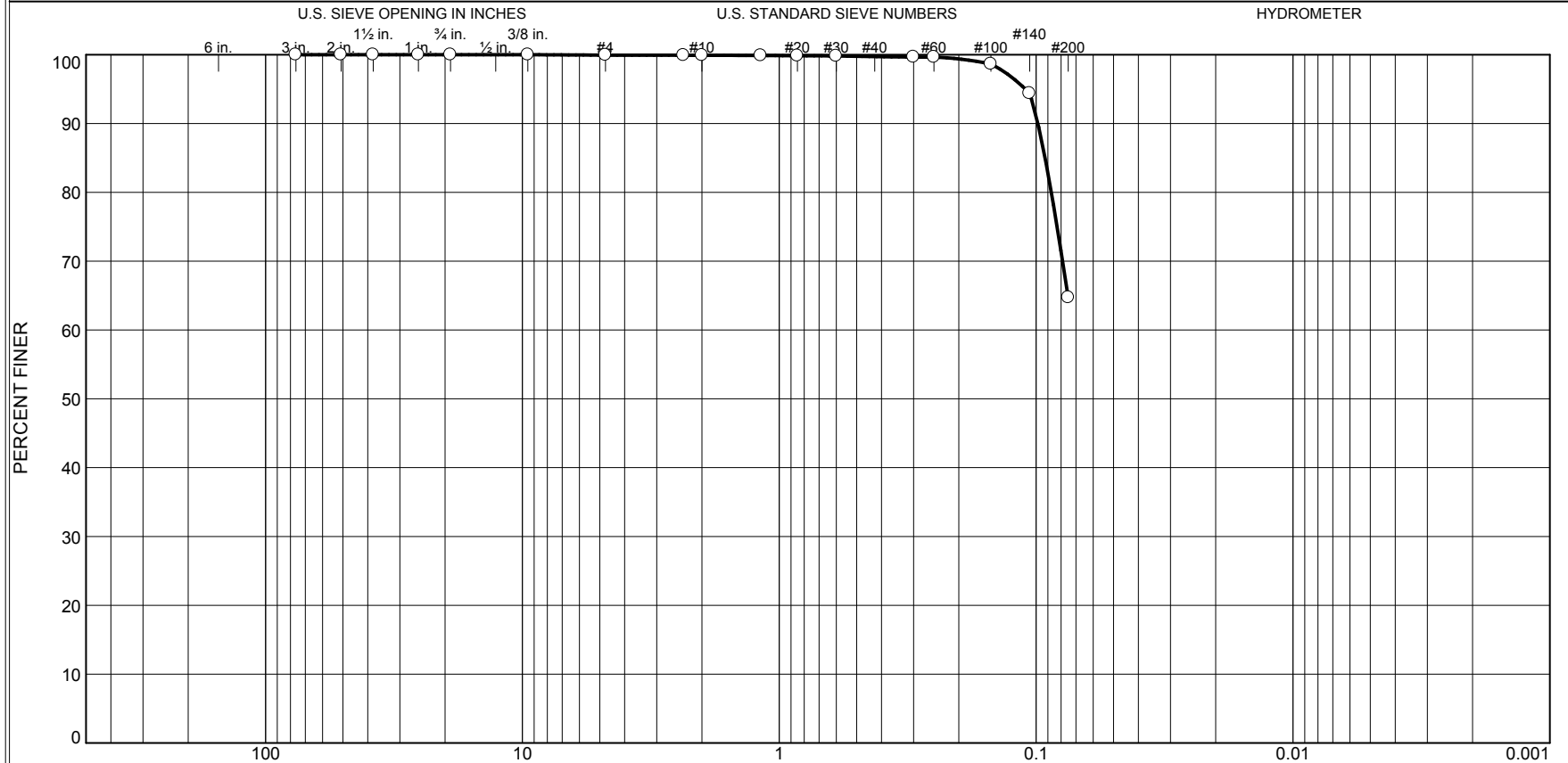
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	3.5	3.5	5.8	32.6	55.3	93.7			2.8

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.1138	0.1266	0.1389	0.1673	0.2941	0.4630	1.1539	1.4652	1.9194	2.9429

Fineness Modulus	C _u	C _c
1.92	4.07	0.53

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.1	0.0	0.2	35.0	64.7	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A5.7-MB257-23-24.5	Depth: 23.0-24.5	Sample Number: 1206126-23	05/24/2012	06/07/2012	06/12/2012

Client Arcadis - Brighton			○ Testing Procedure: ASTM D422-63 (07) Percent Moisture: 16.3% Weight Dry Solids (grams): 343.37
Project RACR Lansing Plants			
Project No. B0064481.2012.00105 Figure			

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A5.7-MB257-23-24.5

Depth: 23.0-24.5

Sample Number: 1206126-23

Material Description: Clay

Date Sampled: 05/24/2012

Date Received: 06/07/2012

Date Tested: 06/12/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 16.3%

Weight Dry Solids (grams): 343.37

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
343.37	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	439.12	439.12	100.0
		0.75"	408.20	408.20	100.0
		0.375"	408.21	408.21	100.0
		#4	378.81	378.61	99.9
		#8	372.87	372.80	99.9
		#10	349.62	349.61	99.9
		#16	302.63	302.52	99.9
		#20	285.81	285.69	99.9
		#30	283.49	283.39	99.8
		#50	253.25	252.72	99.7
		#60	240.21	240.16	99.7
		#100	231.07	227.64	98.7
		#140	226.77	212.15	94.4
		#200	328.75	226.81	64.7

Fractional Components

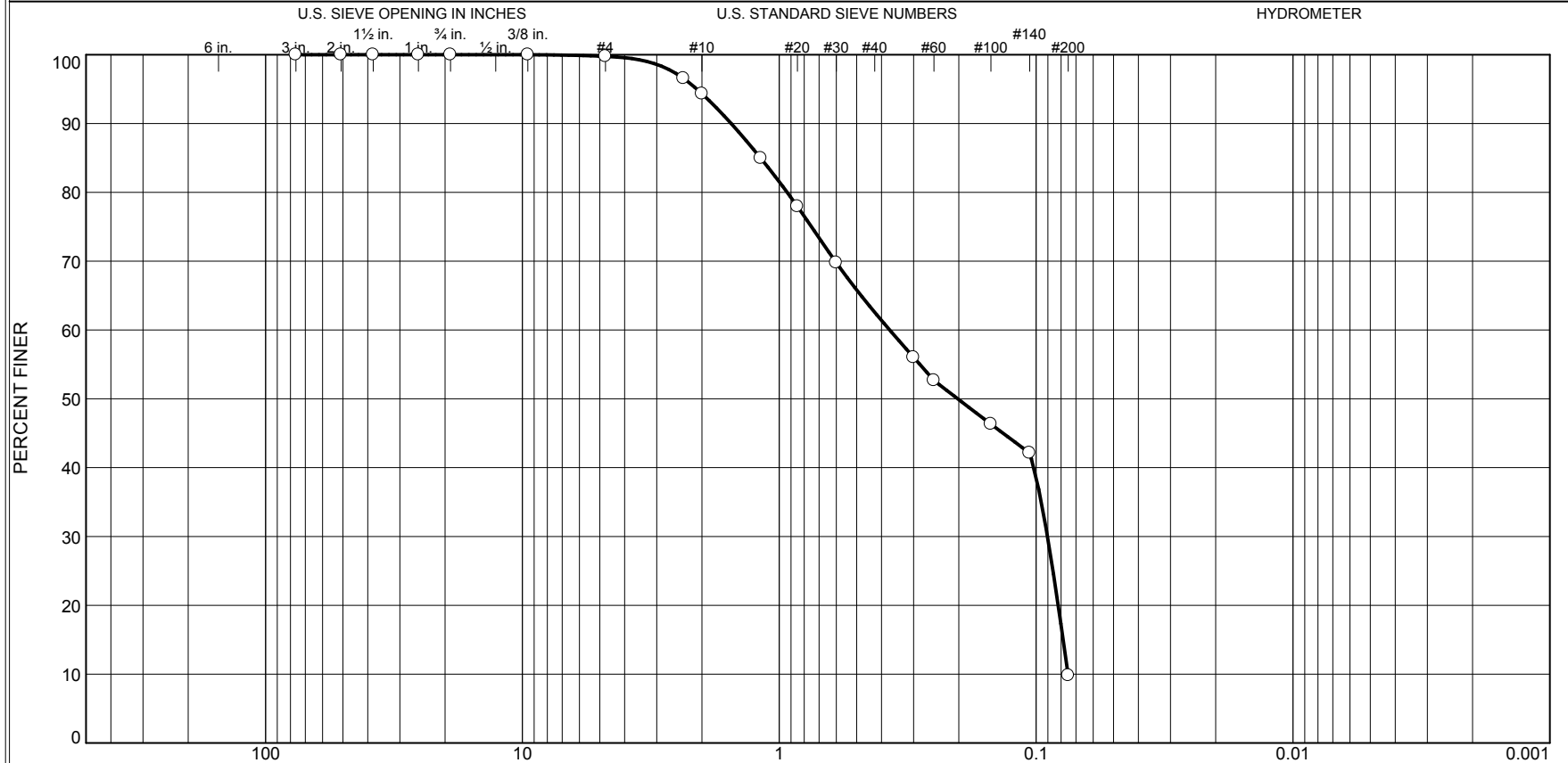
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.1	0.1	0.0	0.2	35.0	35.2			64.7

D10	D15	D20	D30	D50	D60	D80	D85	D90	D95
						0.0872	0.0923	0.0984	0.1101

Fineness Modulus
0.02

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.2	5.5	31.7	52.8	9.8	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A5.7-MB257-27-28	Depth: 27.0-28.0	Sample Number: 1206126-24	05/24/2012	06/07/2012	06/12/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 17% Weight Dry Solids (grams): 251.06
Project RACR Lansing Plants		
Project No. B0064481.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A5.7-MB257-27-28

Depth: 27.0-28.0

Sample Number: 1206126-24

Material Description: Clay

Date Sampled: 05/24/2012

Date Received: 06/07/2012

Date Tested: 06/12/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 17%

Weight Dry Solids (grams): 251.06

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
251.06	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	439.12	439.12	100.0
		0.75"	408.20	408.20	100.0
		0.375"	408.21	408.21	100.0
		#4	379.21	378.60	99.8
		#8	380.80	372.79	96.6
		#10	355.19	349.58	94.3
		#16	325.93	302.37	84.9
		#20	303.20	285.60	77.9
		#30	303.79	283.31	69.8
		#50	286.74	252.22	56.0
		#60	248.29	239.87	52.7
		#100	243.16	227.22	46.3
		#140	222.60	212.04	42.1
		#200	308.13	226.96	9.8

Fractional Components

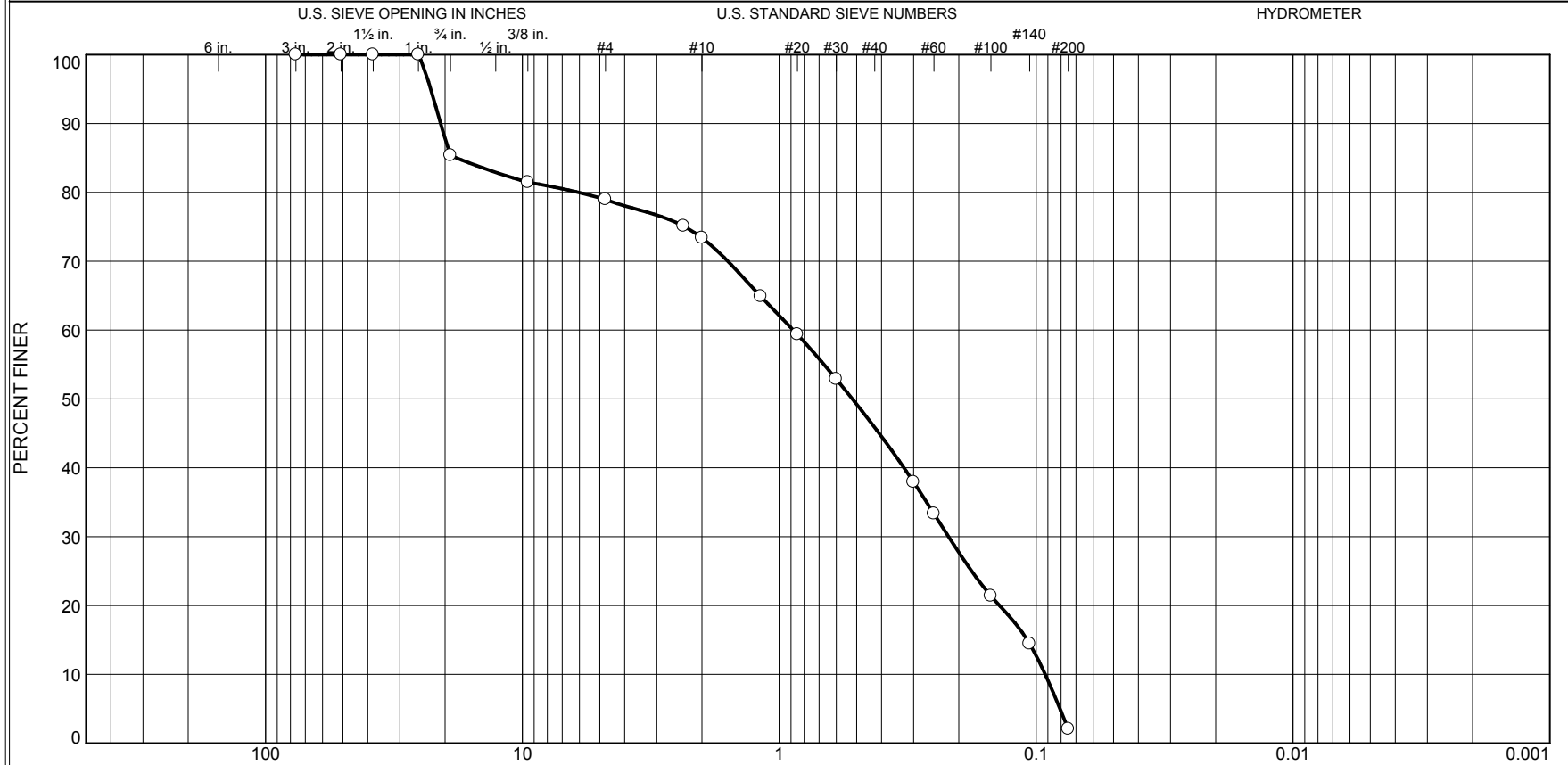
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.2	0.2	5.5	31.7	52.8	90.0			9.8

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.0751	0.0785	0.0821	0.0903	0.2019	0.3717	0.9319	1.1831	1.5384	2.0931

Fineness Modulus	C _u	C _c
1.47	4.95	0.29

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	14.6	6.4	5.6	27.6	43.7	2.1	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A5.7-MB257-37-38	Depth: 37.0-38.0	Sample Number: 1206126-25	05/24/2012	06/07/2012	06/13/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 6.26% Weight Dry Solids (grams): 297.31
Project RACR Lansing Plants		
Project No. B0064481.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A5.7-MB257-37-38

Depth: 37.0-38.0

Sample Number: 1206126-25

Material Description: Clay

Date Sampled: 05/24/2012

Date Received: 06/07/2012

Date Tested: 06/13/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 6.26%

Weight Dry Solids (grams): 297.31

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
297.31	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	439.12	439.12	100.0
		0.75"	451.73	408.20	85.4
		0.375"	419.78	408.21	81.5
		#4	385.98	378.57	79.0
		#8	384.33	372.82	75.1
		#10	354.69	349.63	73.4
		#16	327.73	302.42	64.9
		#20	302.07	285.61	59.4
		#30	302.65	283.35	52.9
		#50	296.17	251.73	37.9
		#60	252.38	238.76	33.3
		#100	262.44	226.92	21.4
		#140	232.73	212.06	14.4
		#200	263.54	226.73	2.1

Fractional Components

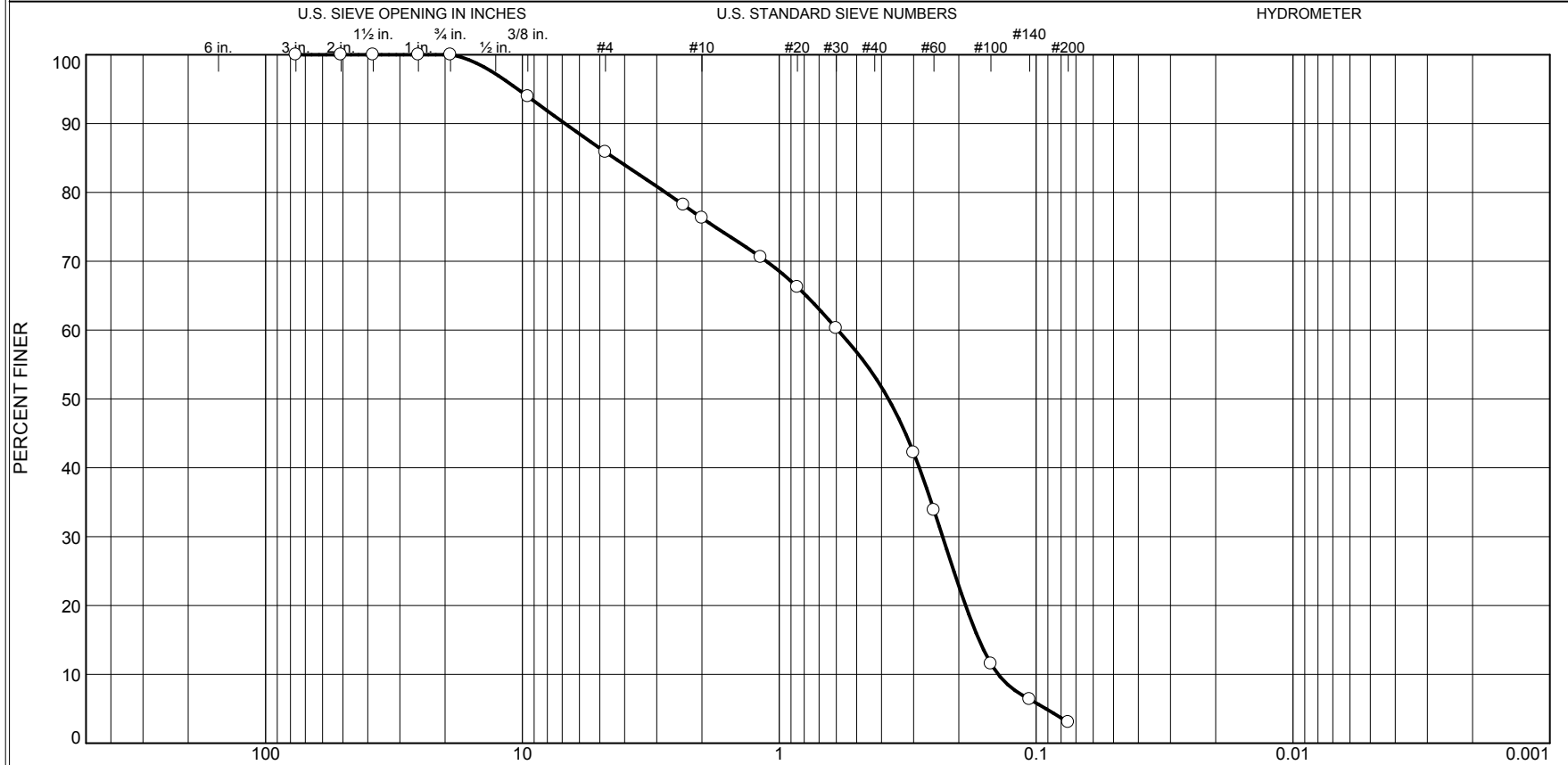
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	14.6	6.4	21.0	5.6	27.6	43.7	76.9			2.1

D10	D15	D20	D30	D50	D60	D80	D85	D90	D95
0.0922	0.1083	0.1389	0.2193	0.5194	0.8825	6.0578	18.0345	20.8191	22.7441

Fineness Modulus	C _u	C _c
3.02	9.58	0.59

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	14.1	9.6	23.1	50.2	3.0	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: VAP-A5.7-MB257-44-44.5	Depth: 44.0-44.5	Sample Number: 1206126-26	05/24/2012	06/07/2012	06/13/2012

Client Arcadis - Brighton		○ Testing Procedure: ASTM D422-63 (07) Percent Moisture: 3.43% Weight Dry Solids (grams): 306.94
Project RACR Lansing Plants		
Project No. B0064481.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: VAP-A5.7-MB257-44-44.5

Depth: 44.0-44.5

Sample Number: 1206126-26

Material Description: Sand

Date Sampled: 05/24/2012

Date Received: 06/07/2012

Date Tested: 06/13/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 3.43%

Weight Dry Solids (grams): 306.94

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
306.94	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	439.12	439.12	100.0
		0.75"	408.20	408.20	100.0
		0.375"	426.86	408.21	93.9
		#4	403.35	378.63	85.9
		#8	396.41	372.82	78.2
		#10	355.46	349.61	76.3
		#16	319.89	302.41	70.6
		#20	298.95	285.65	66.3
		#30	301.70	283.31	60.3
		#50	307.39	251.93	42.2
		#60	264.33	238.75	33.9
		#100	295.95	227.47	11.5
		#140	228.59	212.70	6.4
		#200	237.11	226.91	3.0

Fractional Components

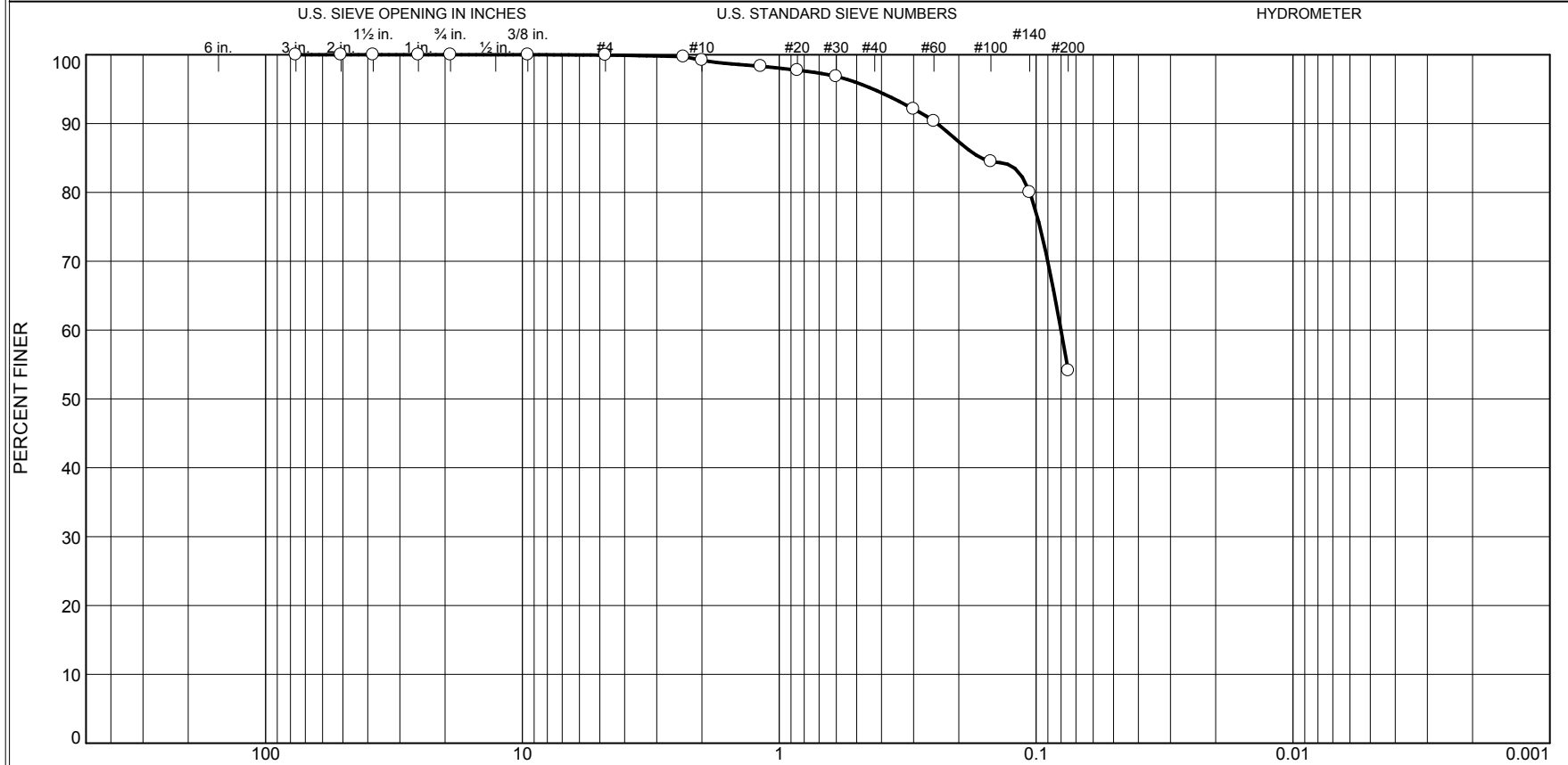
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	14.1	14.1	9.6	23.1	50.2	82.9			3.0

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.1406	0.1668	0.1882	0.2313	0.3759	0.5916	2.7719	4.3887	6.8282	10.4298

Fineness Modulus	C _u	C _c
2.57	4.21	0.64

TriMatrix Laboratories

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.1	0.7	4.3	40.8	54.1	

Identification			Date Sampled	Date Received	Date Tested
Source of Sample: A9-RR209_28-28.5	Depth: 28.0-28.5	Sample Number: 1206126-27	06/05/2012	06/07/2012	06/13/2012

Client Arcadis - Brighton		Testing Procedure: ASTM D422-63 (07) Percent Moisture: 14.6% Weight Dry Solids (grams): 290.79
Project RACR Lansing Plants		
Project No. B0064481.2012.00105 Figure		

Tested By: ALW Checked By: MAS

GRAIN SIZE DISTRIBUTION TEST DATA

6/19/2012

Client: Arcadis - Brighton

Project: RACR Lansing Plants

Project Number: B0064481.2012.00105

Location: A9-RR209_28-28.5

Depth: 28.0-28.5

Sample Number: 1206126-27

Material Description: Clay

Date Sampled: 06/05/2012

Date Received: 06/07/2012

Date Tested: 06/13/2012

Testing Remarks: Testing Procedure: ASTM D422-63 (07)

Percent Moisture: 14.6%

Weight Dry Solids (grams): 290.79

Tested by: ALW

Checked by: MAS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
290.79	0.00	3.0"	413.18	413.18	100.0
		2.0"	388.49	388.49	100.0
		1.5"	455.51	455.51	100.0
		1.0"	439.12	439.12	100.0
		0.75"	408.20	408.20	100.0
		0.375"	408.21	408.21	100.0
		#4	378.75	378.59	99.9
		#8	373.47	372.82	99.7
		#10	351.11	349.61	99.2
		#16	305.06	302.50	98.3
		#20	287.39	285.72	97.8
		#30	286.00	283.37	96.8
		#50	265.84	252.09	92.1
		#60	243.97	238.81	90.3
		#100	244.74	227.73	84.5
		#140	225.56	212.54	80.0
		#200	302.01	226.74	54.1

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.1	0.1	0.7	4.3	40.8	45.8			54.1

D10	D15	D20	D30	D50	D60	D80	D85	D90	D95
					0.0800	0.1060	0.1633	0.2429	0.4306

Fineness Modulus
0.29

TriMatrix Laboratories



Appendix E 3

Hydraulic Conductivity Analyses:
2005 BBL Falling Head
Permeability Results and
Calculations

Appendix C

Falling Head Permeability Reports



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PROJECT NO. 021522
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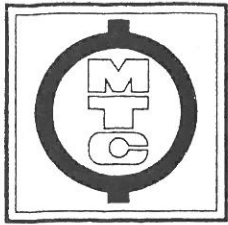
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DATE: 11-21-02

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CONTRACTOR _____
ENGINEER/ARCHITECT _____

**MEASUREMENT OF HYDRAULIC CONDUCTIVITY OF SATURATED POROUS
MATERIALS USING A FLEXIBLE WALL PERMEAMETER ASTM D 5084**

MTC SAMPLE NO.: 86957

TEST DATE: 11-19-02

SAMPLE LOCATION: ST-1, MW-02-01, 11-7-02, 30.5-31.0'

SAMPLE DESCRIPTION: Lean Clay with Sand (CL)

TYPE OF SAMPLE: Undisturbed Tube

SAMPLE DIMENSIONS - INITIAL

DIAMETER (IN.):	2.84	HEIGHT (IN.):	1.80	AREA (IN ²):	6.33
DRY UNIT WEIGHT (PCF):	119.0	WATER CONTENT (%):	14.9		

TYPE OF PERMEANT: 0.01 N CaSO₄

MAXIMUM BACK PRESSURE USED (PSI): 50.0

MAXIMUM EFFECTIVE CONSOLIDATION STRESS: 4.0 psi

MINIMUM EFFECTIVE CONSOLIDATION STRESS: 3.0 psi

RANGE OF HYDRAULIC GRADIENT: 23.9-20.1

SAMPLE DIMENSIONS - FINAL

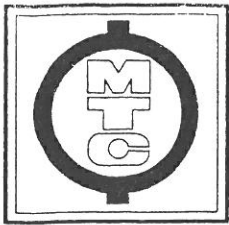
DIAMETER (IN.):	2.84	HEIGHT (IN.):	1.79	AREA (IN ²):	6.33
DRY UNIT WEIGHT (PCF):	119.7	WATER CONTENT (%):	15.2		

AVERAGE HYDRAULIC CONDUCTIVITY (CM/SEC): 2.6×10^{-8}

TESTED BY: PJ

REVIEWED BY:


PETER T. JOHNSON
LABORATORY MANAGER



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MTC PROJECT NO.: 021522
DATE: 11-25-02

PROJECT _____
CLIENT _____
CONTRACTOR _____
ENGINEER/ARCHITECT _____

GM Plant #3, BBL Project No. 64429.02

BBL

**MEASUREMENT OF HYDRAULIC CONDUCTIVITY OF SATURATED POROUS
MATERIALS USING A FLEXIBLE WALL PERMEAMETER ASTM D 5084**

MTC SAMPLE NO.: 86958

TEST DATE: 11-22-02

SAMPLE LOCATION: ST-2, MW-02-02, 11-8-02, 30-5-31.0'

SAMPLE DESCRIPTION: Lean Clay with Sand (CL)

TYPE OF SAMPLE: Undisturbed Tube

SAMPLE DIMENSIONS - INITIAL

DIAMETER (IN.): 2.85 HEIGHT (IN.): 1.80 AREA (IN²): 6.38

DRY UNIT WEIGHT (PCF): 121.3 WATER CONTENT (%): 14.3

TYPE OF PERMEANT: 0.01 N CaSO₄

MAXIMUM BACK PRESSURE USED (PSI): 60.0

MAXIMUM EFFECTIVE CONSOLIDATION STRESS: 4.0 psi

MINIMUM EFFECTIVE CONSOLIDATION STRESS: 3.0 psi

RANGE OF HYDRAULIC GRADIENT: 23.1-21.8

SAMPLE DIMENSIONS - FINAL

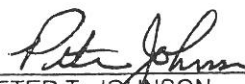
DIAMETER (IN.): 2.85 HEIGHT (IN.): 1.80 AREA (IN²): 6.38

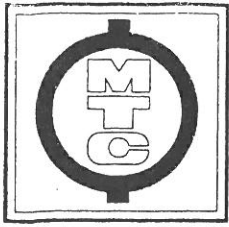
DRY UNIT WEIGHT (PCF): 121.3 WATER CONTENT (%): 14.5

AVERAGE HYDRAULIC CONDUCTIVITY (CM/SEC): 2.6×10^{-8}

TESTED BY: PJ

REVIEWED BY:


PETER T. JOHNSON
LABORATORY MANAGER



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MTC PROJECT NO.: 021522

DATE: 11-21-02

PROJECT _____ GM Plant #3, BBL Project No. 64429.02
CLIENT _____ BBL
CONTRACTOR _____
ENGINEER/ARCHITECT _____

**MEASUREMENT OF HYDRAULIC CONDUCTIVITY OF SATURATED POROUS
MATERIALS USING A FLEXIBLE WALL PERMEAMETER ASTM D 5084**

MTC SAMPLE NO.: 86959

TEST DATE: 11-20-02

SAMPLE LOCATION: ST-3, MW-02-03, 11-11-02, 36-36.5'

SAMPLE DESCRIPTION: Sandy Silty Clay (CL-ML)

TYPE OF SAMPLE: Undisturbed Tube

SAMPLE DIMENSIONS - INITIAL

DIAMETER (IN.): 2.82

HEIGHT (IN.): 1.79

AREA (IN²): 6.25

DRY UNIT WEIGHT (PCF): 132.9

WATER CONTENT (%): 10.9

TYPE OF PERMEANT: 0.01 N CaSO₄

MAXIMUM BACK PRESSURE USED (PSI): 50.0

MAXIMUM EFFECTIVE CONSOLIDATION STRESS: 4.0 psi

MINIMUM EFFECTIVE CONSOLIDATION STRESS: 3.0 psi

RANGE OF HYDRAULIC GRADIENT: 17.6-15.3

SAMPLE DIMENSIONS - FINAL

DIAMETER (IN.): 2.83

HEIGHT (IN.): 1.79

AREA (IN²): 6.25

DRY UNIT WEIGHT (PCF): 132.9

WATER CONTENT (%): 11.1

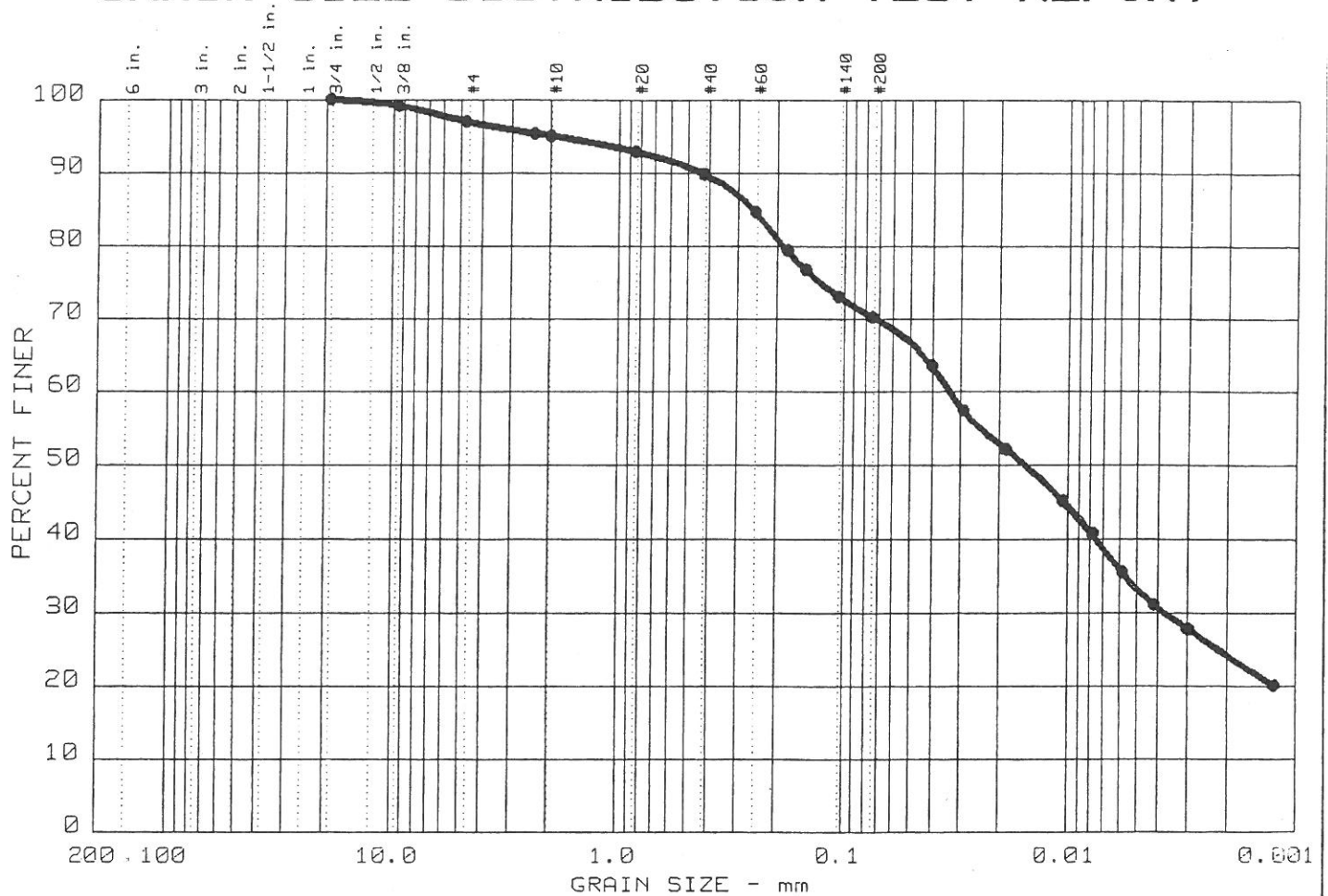
AVERAGE HYDRAULIC CONDUCTIVITY (CM/SEC): 6.4×10^{-8}

TESTED BY: PJ

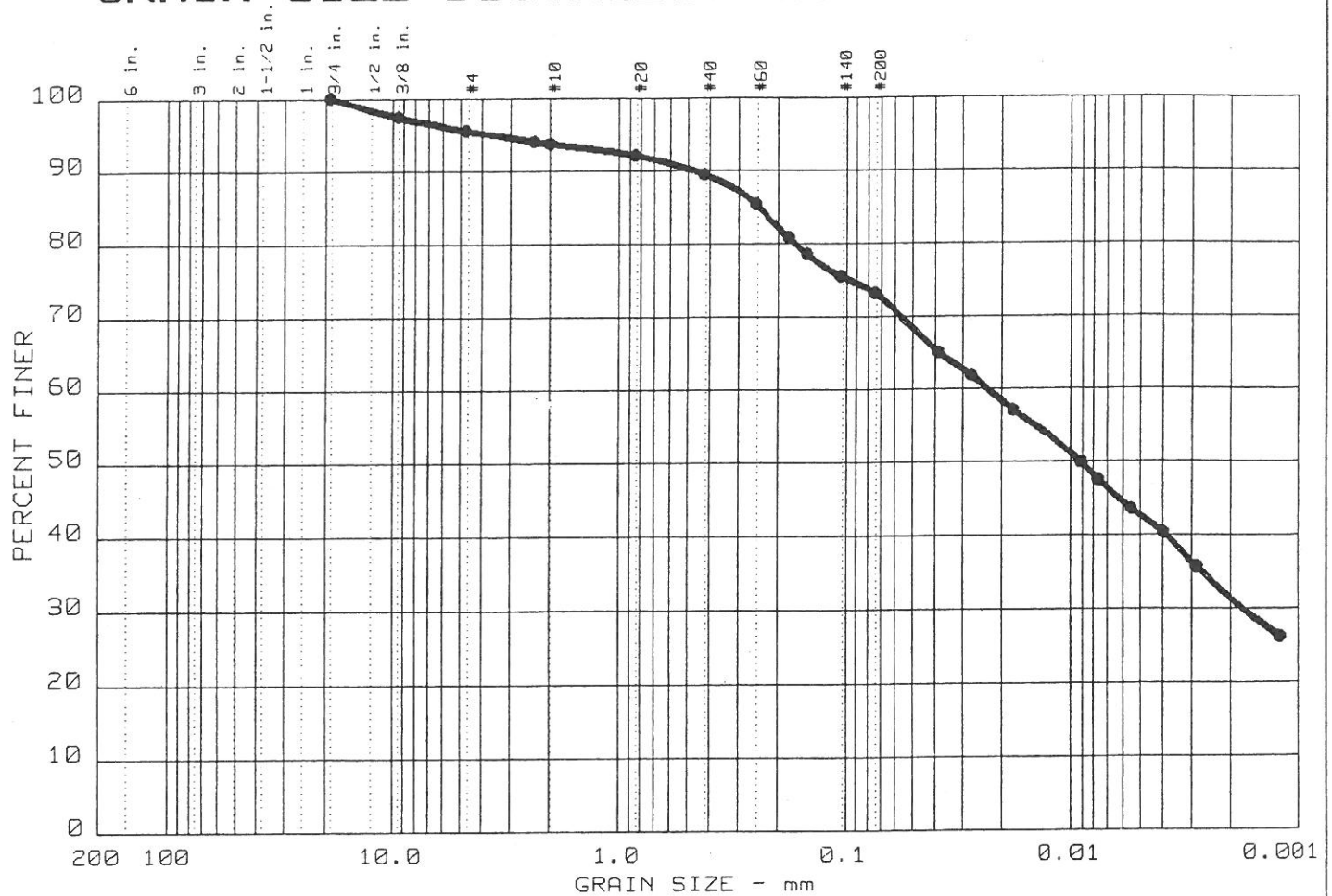
REVIEWED BY:

Peter T. Johnson
PETER T. JOHNSON
LABORATORY MANAGER

GRAIN SIZE DISTRIBUTION TEST REPORT



GRAIN SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	4.5	22.3	30.7	42.5

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
25	11	0.243		0.0091	0.0018				

MATERIAL DESCRIPTION	USCS	AASHTO
Lean clay with sand	CL	

Project No.: 021522 Project: GM Plant No. 3, Lansing Location: MW-02-02, ST-2, 30.5-31'	Remarks: MTC Sample No. 86958 Fig. No.: _____
Date: 11-25-02 GRAIN SIZE DISTRIBUTION TEST REPORT MATERIALS TESTING CONSULTANTS	

The graph shows a grain size distribution curve for a soil sample. The y-axis represents 'PERCENT FINER' from 0 to 100. The x-axis represents 'GRAIN SIZE - mm' on a logarithmic scale from 200 to 0.001. The curve starts at 100% finer for 200 mm and decreases as grain size decreases, passing through approximately 95% finer at 10 mm, 85% finer at 1 mm, 50% finer at 0.1 mm, and 15% finer at 0.075 mm.

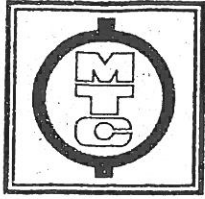
Grain Size (mm)	Percent Finer (%)
200	100
100	100
10	95
1	85
0.5	80
0.25	75
0.1	50
0.075	15
0.06	13

[illegible]

Project No.: 021522 Project: GM Plant No. 3, Lansing • Location: MW-02-03. ST-3, 36-36.5'	Remarks:
Date: 11-25-02	MTC Sample No. 86959
GRAIN SIZE DISTRIBUTION TEST REPORT MATERIALS TESTING CONSULTANTS	Fig. No.: _____

Appendix D

Falling Head Permeability Test Results, Soil Physical Testing, and Hydraulic Conductivity and Seepage Velocity Calculations



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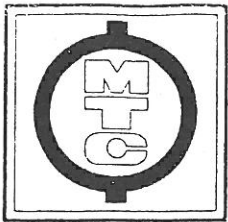
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MTC PROJECT NO.: 021522

DATE: 11-12-02

PROJECT
CLIENT
CONTRACTOR
ENGINEER/ARCHITECT

GM Plant #3, BBL Project No. 64429.02
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**MEASUREMENT OF HYDRAULIC CONDUCTIVITY OF SATURATED POROUS
MATERIALS USING A FLEXIBLE WALL PERMEAMETER ASTM D 5084**

MTC SAMPLE NO.: 86506

TEST DATE: 11-11-02

SAMPLE LOCATION: ST-1, 47.5-48'

SAMPLE DESCRIPTION: Silty Sand (SM)

TYPE OF SAMPLE: Undisturbed Tube

SAMPLE DIMENSIONS - INITIAL

DIAMETER (IN.): 2.87

HEIGHT (IN.): 1.79

AREA (IN²): 6.47

DRY UNIT WEIGHT (PCF): 111.3

WATER CONTENT (%): 9.9

TYPE OF PERMEANT: 0.01 N CaSO₄

MAXIMUM BACK PRESSURE USED (PSI): 70.0

MAXIMUM EFFECTIVE CONSOLIDATION STRESS: 4.0 psi

MINIMUM EFFECTIVE CONSOLIDATION STRESS: 2.0 psi

RANGE OF HYDRAULIC GRADIENT: 11.2-6.2

SAMPLE DIMENSIONS - FINAL

DIAMETER (IN.): 2.87

HEIGHT (IN.): 1.79

AREA (IN²): 6.47

DRY UNIT WEIGHT (PCF): 111.3

WATER CONTENT (%): 14.3

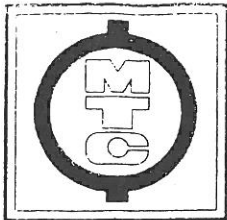
SATURATION:

AVERAGE HYDRAULIC CONDUCTIVITY (CM/SEC): 4.8×10^{-5}

TESTED BY: PJ

REVIEWED BY:

Pete Johnson
PETER T. JOHNSON
LABORATORY MANAGER



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MTC PROJECT NO.: 021522
DATE: 11-14-02

PROJECT: GM Plant #3, BBL Project No. 64429.02
CLIENT: BBL
CONTRACTOR:
ENGINEER/ARCHITECT:

**MEASUREMENT OF HYDRAULIC CONDUCTIVITY OF SATURATED POROUS
MATERIALS USING A FLEXIBLE WALL PERMEAMETER ASTM D 5084**

MTC SAMPLE NO.: 86507

TEST DATE: 11-13-02

SAMPLE LOCATION: ST-3, 64-64.5'

SAMPLE DESCRIPTION: Sandy Silt (ML)

TYPE OF SAMPLE: Undisturbed Tube

SAMPLE DIMENSIONS - INITIAL

DIAMETER (IN.): 2.82

HEIGHT (IN.): 1.75

AREA (IN²): 6.25

DRY UNIT WEIGHT (PCF): 130.6

WATER CONTENT (%): 9.2

TYPE OF PERMEANT: 0.01 N CaSO₄

MAXIMUM BACK PRESSURE USED (PSI): 70.0

MAXIMUM EFFECTIVE CONSOLIDATION STRESS: 4.0 psi

MINIMUM EFFECTIVE CONSOLIDATION STRESS: 3.0 psi

RANGE OF HYDRAULIC GRADIENT: 11.5-3.1

SAMPLE DIMENSIONS - FINAL

DIAMETER (IN.): 2.81

HEIGHT (IN.): 1.76

AREA (IN²): 6.20

DRY UNIT WEIGHT (PCF): 130.8

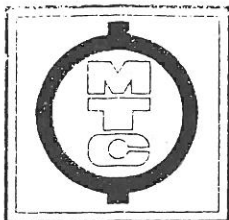
WATER CONTENT (%): 10.3

AVERAGE HYDRAULIC CONDUCTIVITY (CM/SEC): 2.7×10^{-6}

TESTED BY: PJ

REVIEWED BY:

Peter T. Johnson
PETER T. JOHNSON
LABORATORY MANAGER



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MTC PROJECT NO. 021522

DATE: 11-14-02

PROJECT GM Plant #3, BBL Project No. 64429.02
CLIENT BBL
CONTRACTOR
ENGINEER/ARCHITECT

**MEASUREMENT OF HYDRAULIC CONDUCTIVITY OF SATURATED POROUS
MATERIALS USING A FLEXIBLE WALL PERMEAMETER ASTM D 5084**

MTC SAMPLE NO.: 86508

TEST DATE: 11-13-02

SAMPLE LOCATION: ST-4, 66.5-67'

SAMPLE DESCRIPTION: Silt with Sand (ML)

TYPE OF SAMPLE: Undisturbed Tube

SAMPLE DIMENSIONS - INITIAL

DIAMETER (IN.): 2.83

HEIGHT (IN.): 1.77

AREA (IN²): 6.29

DRY UNIT WEIGHT (PCF): 112.0

WATER CONTENT (%): 18.9

TYPE OF PERMEANT: 0.01 N CaSO₄

MAXIMUM BACK PRESSURE USED (PSI): 50.0

MAXIMUM EFFECTIVE CONSOLIDATION STRESS: 4.0 psi

MINIMUM EFFECTIVE CONSOLIDATION STRESS: 3.0 psi

RANGE OF HYDRAULIC GRADIENT: 10.7-7.9

SAMPLE DIMENSIONS - FINAL

DIAMETER (IN.): 2.82

HEIGHT (IN.): 1.77

AREA (IN²): 6.25

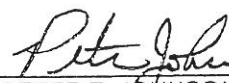
DRY UNIT WEIGHT (PCF): 112.8

WATER CONTENT (%): 18.6

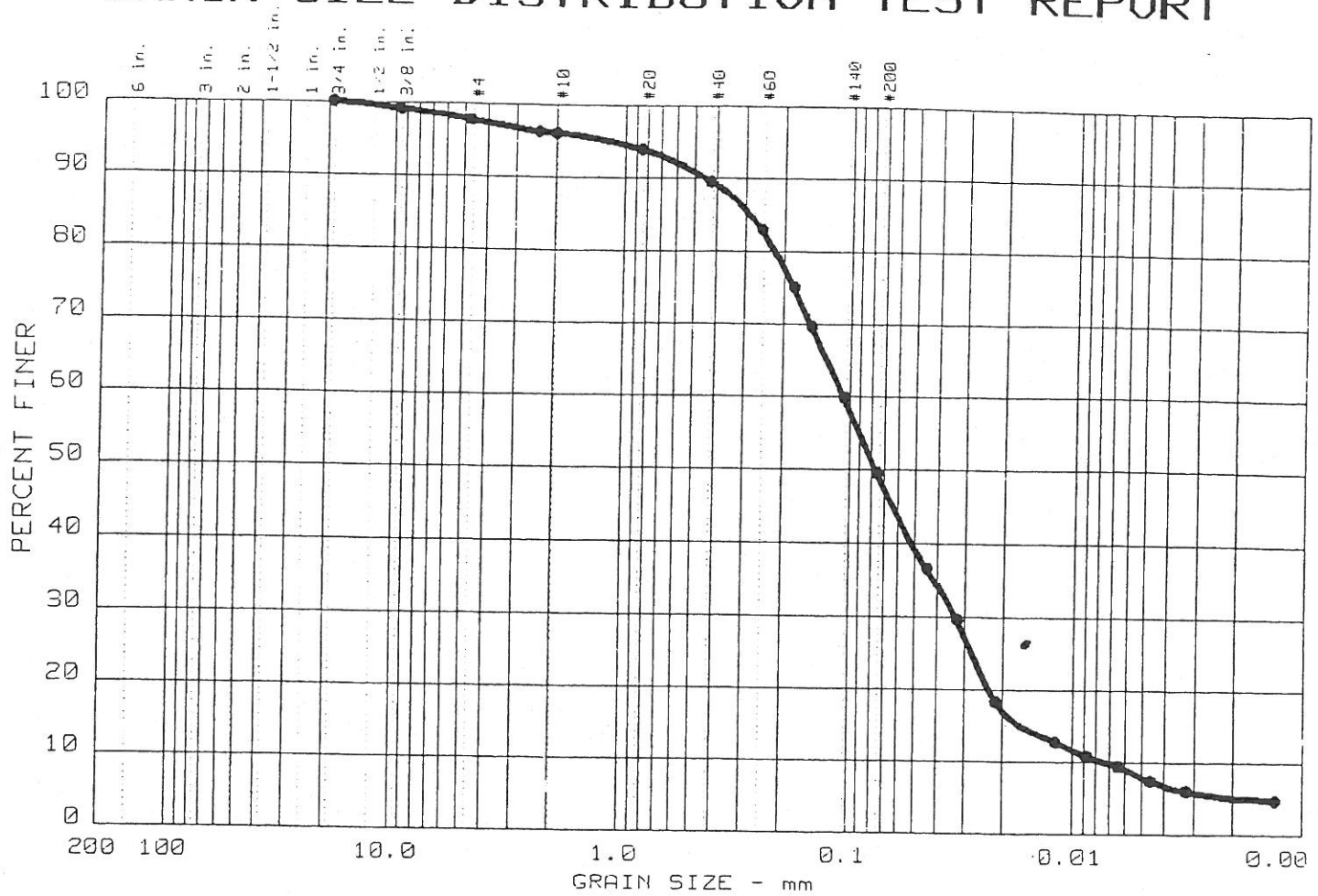
AVERAGE HYDRAULIC CONDUCTIVITY (CM/SEC): 1.0×10^{-6}

TESTED BY: PJ

REVIEWED BY:


PETER T. JOHNSON
LABORATORY MANAGER

GRAIN SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	2.3	48.2	41.6	7.9

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
NP	NP	0.282	0.106	0.0755	0.0329	0.0171	0.0073	1.40	14.5

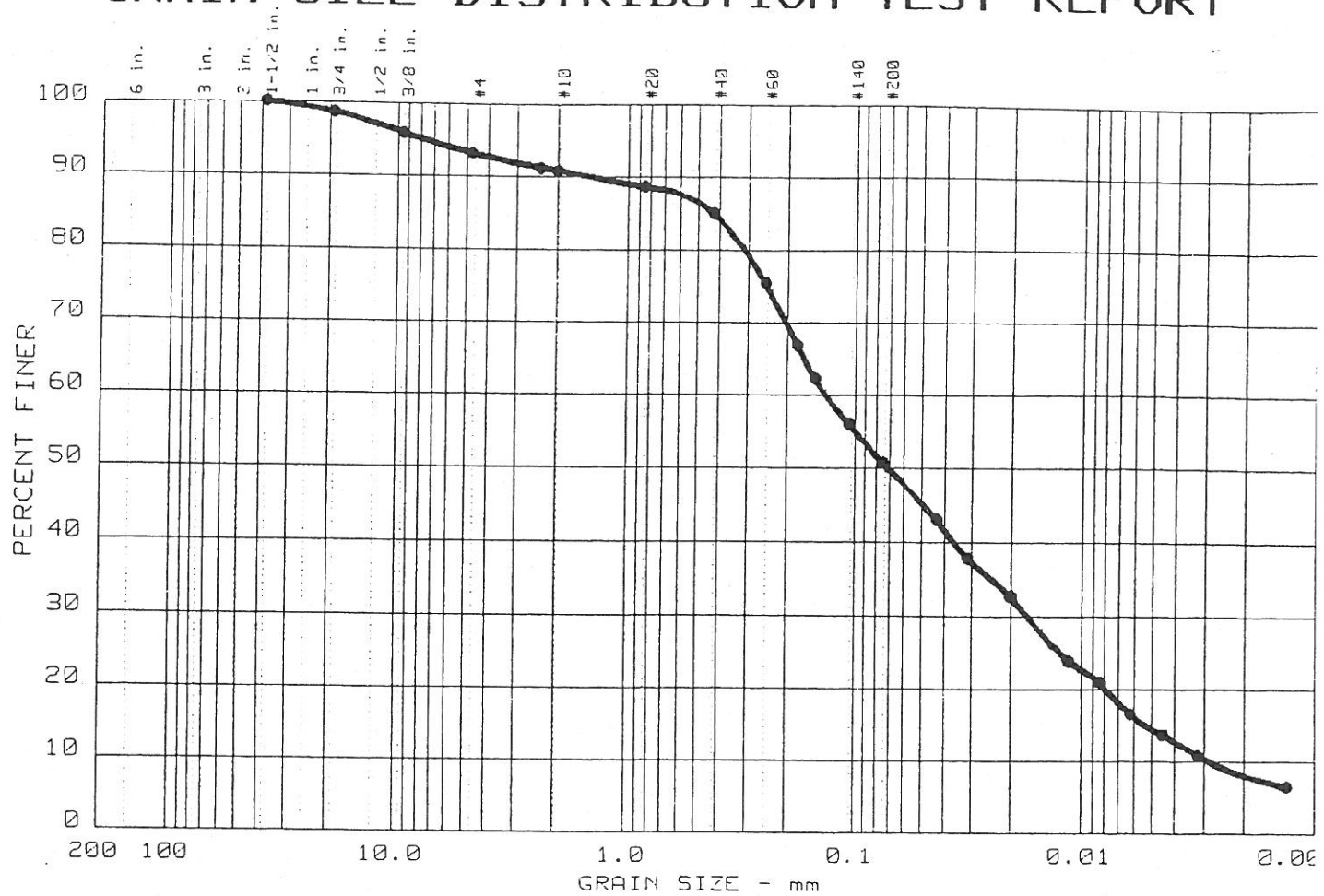
MATERIAL DESCRIPTION	USCS	AASHTO
• Silty sand	SM	

Project No.: 021522
 Project: GM Plant No. 3, Lansing
 • Location: ST-1, 47.5-48'
 Date: 11-25-02

Remarks:

MTC Sample No. 86506

GRAIN SIZE DISTRIBUTION TEST REPORT



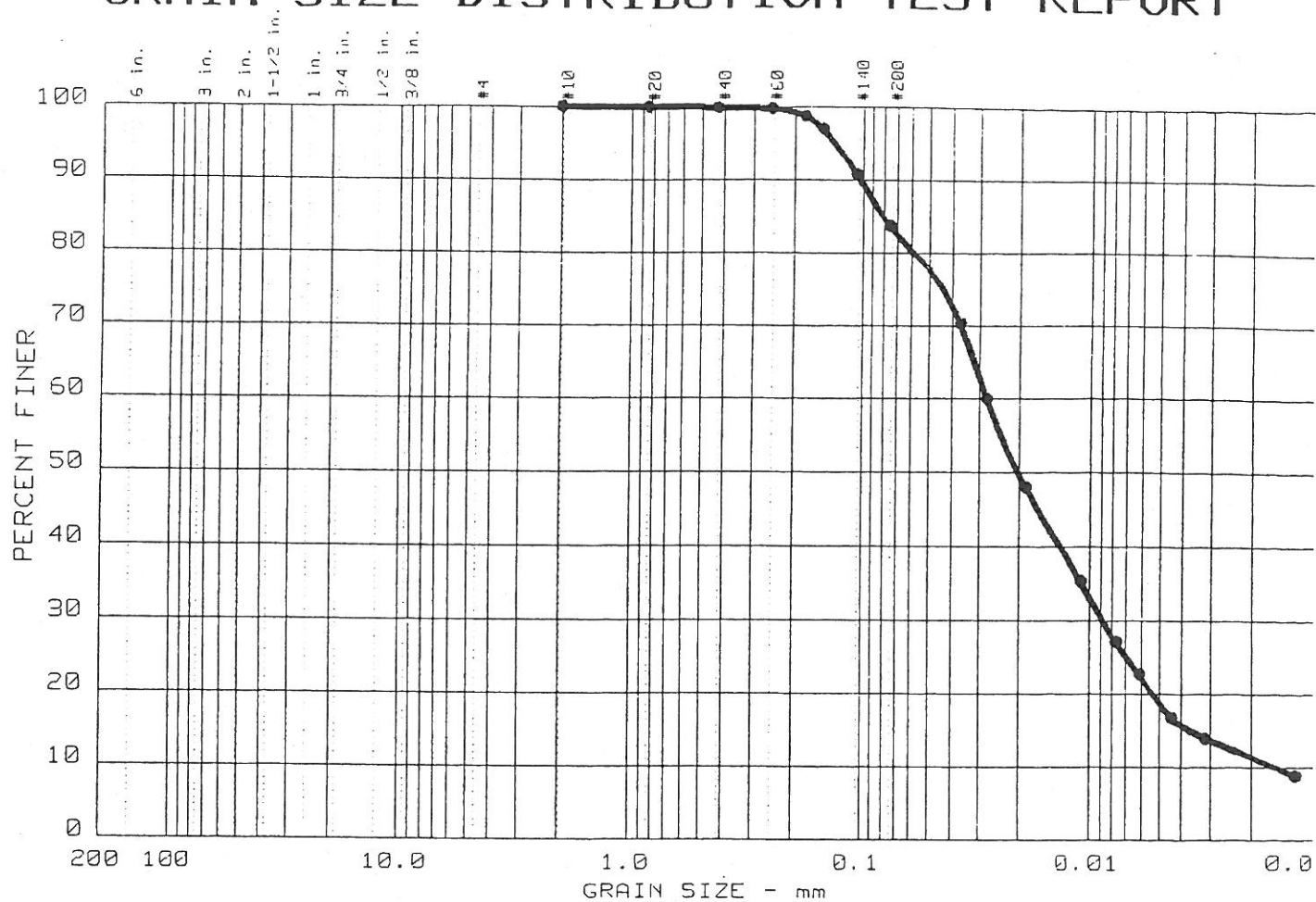
% +3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	6.9	42.4	35.2	14.5

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
NP	NP	0.422	0.133	0.0708	0.0170	0.0053	0.0028	0.77	47.3

MATERIAL DESCRIPTION	USCS	AASHTO
● Sandy silt	ML	

Project No.: 021522 Project: GM Plant No. 3, Lansing ● Location: ST-3, 64-64.5' Date: 11-25-02	Remarks: MTC Sample No. 86507 Fig. No.: _____
GRAIN SIZE DISTRIBUTION TEST REPORT MATERIALS TESTING CONSULTANTS	

GRAIN SIZE DISTRIBUTION TEST REPORT



BOUWER AND RICE METHOD FOR INTERPRETATION OF SLUG TESTS: FOR UNCONFINED AND LEAKY CONFINED AQUIFERS.
TO UTILIZE THIS WORKSHEET, ENTER YOUR DATA AT LOCATIONS MARKED BY AN **

PROGRAM CAN INCLUDE EFFECTS OF SANDPACK DEWATERING (ASSUMING WATER IS RISING WITHIN THE SANDPACK).

#	*TIME mi (X)	*WATER LEVEL Ft.	DRAWDO (Y)	TIME sec (X)	LN (Y)
1	0.001	67.17	1.510	0.1	0.4121
2	0.50	66.14	0.480	30.0	-0.7340
3	1.00	66.87	1.210	60.0	0.1906
4	1.50	66.75	1.090	90.0	0.0862
5	2.00	66.66	1.000	120.0	0.0000
6	2.50	66.60	0.940	150.0	-0.0619
7	3.00	66.54	0.880	180.0	-0.1278
8	3.50	66.49	0.830	210.0	-0.1863
9	4.00	66.43	0.770	240.0	-0.2614
10	5.00	66.37	0.710	300.0	-0.3425
11	6.00	66.32	0.660	360.0	-0.4155
12	7.00	66.26	0.600	420.0	-0.5108
13	8.00	66.20	0.540	480.0	-0.6162
14	9.00	66.18	0.520	540.0	-0.6539
15	10.00	66.15	0.490	600.0	-0.7133
16	12.00	66.11	0.450	720.0	-0.7985
17	14.00	66.08	0.420	840.0	-0.8675
18	16.00	66.05	0.390	960.0	-0.9416
19	18.00	66.03	0.370	1080.0	-0.9943
20	20.00	66.00	0.340	1200.0	-1.0788
21	25.00	65.95	0.290	1500.0	-1.2379

* PROJECT NAME	GM Lasing Plant 3
* PROJECT NO	35349 30
* WELL NO	MW-93-1 (SLUG out)
* ANALYST	BYRNE
* DATE COLLECTED	2/9/94
* RISER PIPE (ID):	(2 r sub c) = 2.0 in. = 0.0833 (radius in ft)
* EFFECTIVE SCREEN AMETER (2 r sub w) =	6.0 in. = 0.2500 (radius in ft)
* EFFECTIVE SCREEN NGTH (L) =	10.00 Ft
* MAX DRAWDOWN (BSET) (Ymax) =	1.00 Ft
* STATIC WATER LEV (SWL) =	65.66 Ft
* DEPTH FROM SWL TO EFF. SCREEN BOTTOM:	4.14 Ft
* EST. AQUIFER DEPTH (SWL TO AQUIFER BOTTOM): (D) =	24.34 Ft
* INCLUDE SANDPACK DEWATERING (ENTER 1 IF YES, 0 IF NO)?	1
* SANDPACK'S SPECIFIC YIELD (Sy) =	0.15

BOUWER AND RICE CURVE COEFFICIENTS:	
RATIO OF L/(r sub w) =	40.00
---LOG OF L/(r sub w) =	1.6021
FOR PARTIALLY PENETRATING WELLS--	
A =	2.77
B =	0.39
FOR FULLY PENETRATING WELLS--	
C =	2.23

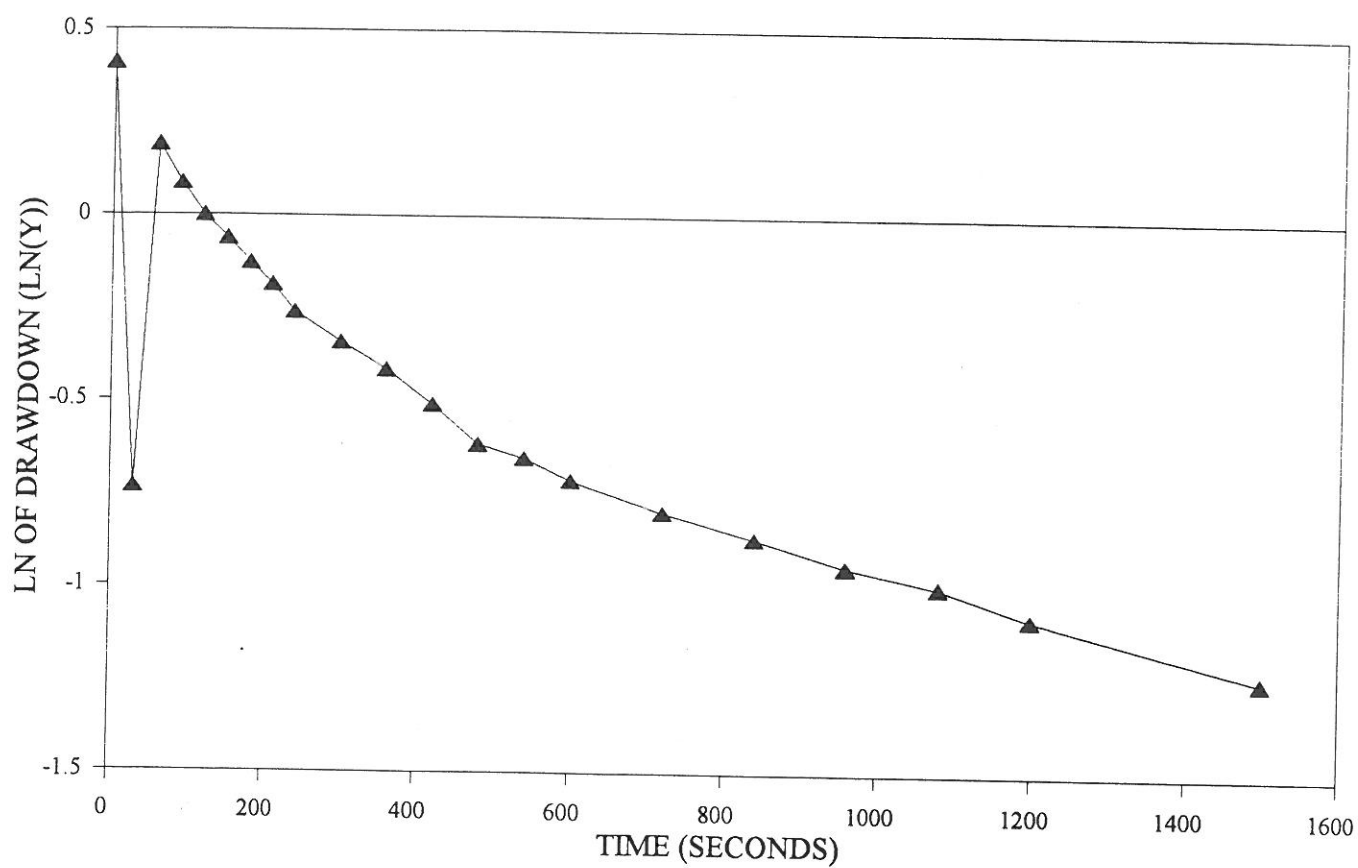
---EVALUATION OF LN(Re/(r sub w))	
CONST.1 =	0.3919
CONST.2 =	4.3920
LN(Re/(r sub w)) =	1.99
(MAX. OF 6.0) = 4.3920	

EFFECTIVE r sub c (for sandpack dewatering) =	0.1236
(1/T)X(LN(Yo/Yt)) (SLOPE) =	-1.71E-03 sec ⁻¹
HYDRAULIC CONDUCTIVITY (K) =	
2.60E-06 ft/sec	<-----
7.93E-05 cm/sec	<-----

Regression Output	
Constant	0.21
Std Err of Y Est	4.38E-02
R Squared	0.9767
No. of Observations	12.0000
Degrees of Freedom	10
X Coefficient(s)	-1.71E-03
Std Err of Coef.	8.38E-05
Regression Range	t=60.0-540.0

RATE OF RECOVERY TEST

MW-93-1 (SLUG OUT)



BOUWER AND RICE METHOD FOR INTERPRETATION OF SLUG TESTS: FOR UNCONFINED AND LEAKY CONFINED AQUIFERS.

TO UTILIZE THIS WORKSHEET, ENTER YOUR DATA AT LOCATIONS MARKED BY AN ***.

PROGRAM CAN INCLUDE EFFECTS OF SANDPACK DEWATERING (ASSUMING WATER IS RISING WITHIN THE SANDPACK).

#	*TIME (X)	*WATER LEVEL Ft.	DRAWDO (Y)	TIME sec (X)	LN (Y)
1	0.001	69.90	6.510	0.1	1.8733
2	0.50	69.42	6.030	30.0	1.7967
3	1.00	69.01	5.620	60.0	1.7263
4	1.50	68.63	5.240	90.0	1.6563
5	2.00	68.33	4.940	120.0	1.5974
6	2.50	68.07	4.680	150.0	1.5433
7	3.00	67.85	4.460	180.0	1.4951
8	3.50	67.61	4.220	210.0	1.4398
9	4.00	67.40	4.010	240.0	1.3888
10	5.00	67.04	3.650	300.0	1.2947
11	6.00	66.75	3.360	360.0	1.2119
12	7.00	66.52	3.130	420.0	1.1410
13	8.00	66.22	2.830	480.0	1.0403
14	9.00	65.95	2.560	540.0	0.9400
15	10.00	65.73	2.340	600.0	0.8502
16	12.00	65.34	1.950	720.0	0.6678
17	14.00	65.23	1.840	840.0	0.6098
18	16.00	65.14	1.750	960.0	0.5596
19	18.00	64.98	1.590	1080.0	0.4637
20	20.00	64.83	1.440	1200.0	0.3646
21	25.00	64.60	1.210	1500.0	0.1906

* PROJECT NAME : GM/Lansing Plant 3	2.0 in. =	0.0833 (radius in ft.)
* WELL NO : 35349 30	6.0 in. =	0.2500 (radius in ft.)
* ANALYST : BYRNE	10.00 Ft.	
* DATE COLLECTED : 2/9/94	1.00 Ft.	
* RISER PIPE (ID):	63.39 Ft.	
* EFFECTIVE SCREEN AMETER (2 r sub w) =		
* EFFECTIVE SCREEN NGTH (L) =		
* MAX DRAWDOWN (BSET) (Ymax) =		
* STATIC WATER LEV (SWL) =		
* DEPTH FROM SWL TO EFF. SCREEN BOTTM (H) =	7.45 Ft.	
* EST. AQUIFER DEPTH (SWL TO AQUIFER BOTTM): (D) =	26.61 Ft.	
* INCLUDE SANDPACK DEWATERING (ENTER 1 IF YES, 0 IF NO)?	1	
* SANDPACK'S SPECIFIC YIELD (Sy) =	0.15	

BOUWER AND RICE CURVE COEFFICIENTS:	
RATIO OF L/(r sub w) =	40.00
---LOG OF L/(r sub w) =	1.6021
FOR PARTIALLY PENETRATING WELLS--	
A =	2.77
B =	0.39
FOR FULLY PENETRATING WELLS--	
C =	2.23

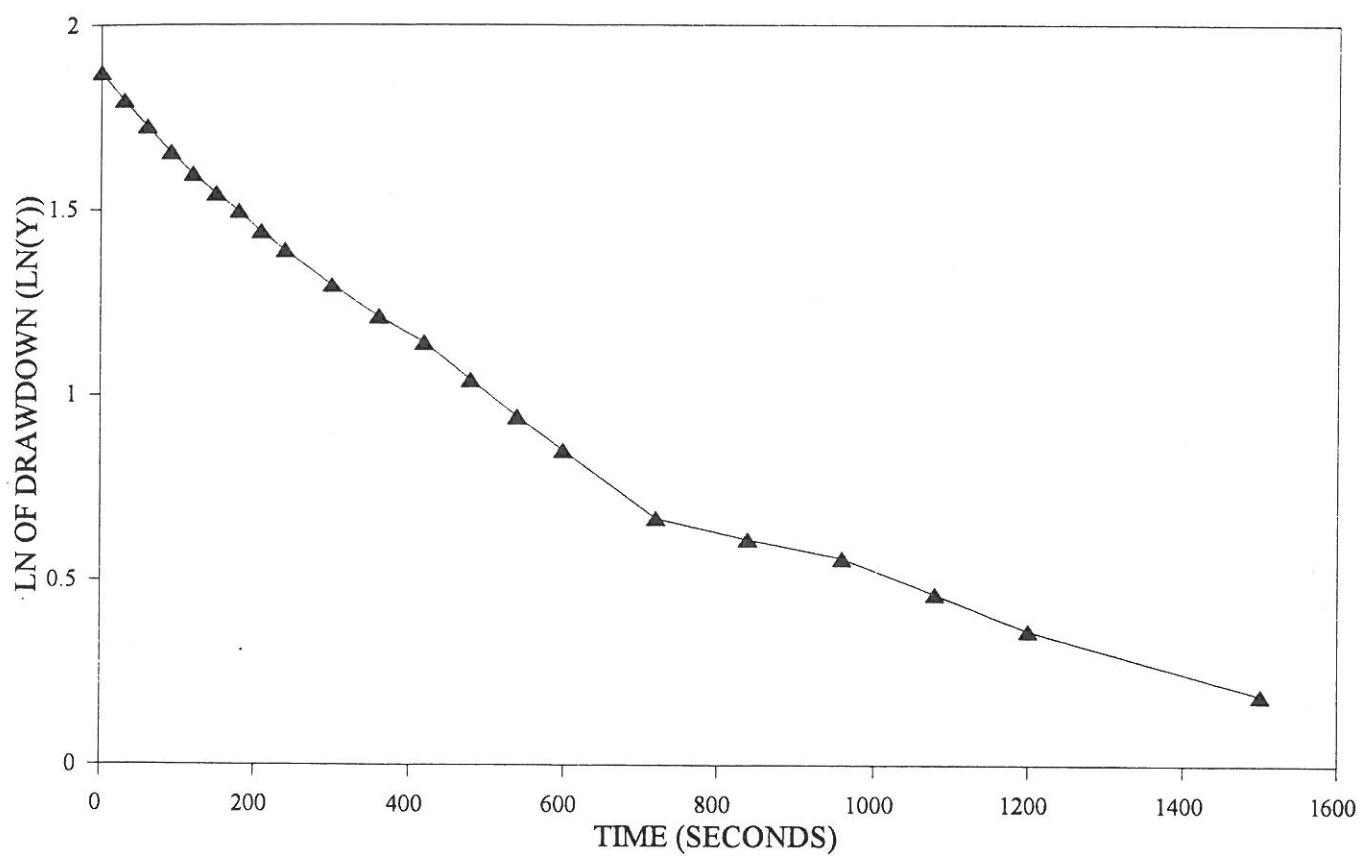
---EVALUATION OF LN(Re/(r sub w)):	
CONST. 1 =	0.3241
CONST. 2 =	4.3391
LN(Re/(r sub w)) =	2.30
EFFECTIVE r sub c (for sandpack dewatering) =	
(1/T)(LN(Yo/Yt)) (SLOPE) =	-1.62E-03 sec ⁻¹

HYDRAULIC CONDUCTIVITY (K) =	
	2.84E-06 ft/sec
	8.66E-05 cm/sec

Regression Output:	
Constant	1.81
Std Err of Y Est	2.79E-02
R Squared	0.9942
No. of Observations	16.0000
Degrees of Freedom	14
X Coefficient(s)	-1.62E-03
Std Err of Coef.	3.31E-05
Regression Range	t=0.01-720.0

RATE OF RECOVERY TEST

MW-93-2 (SLUG OUT)



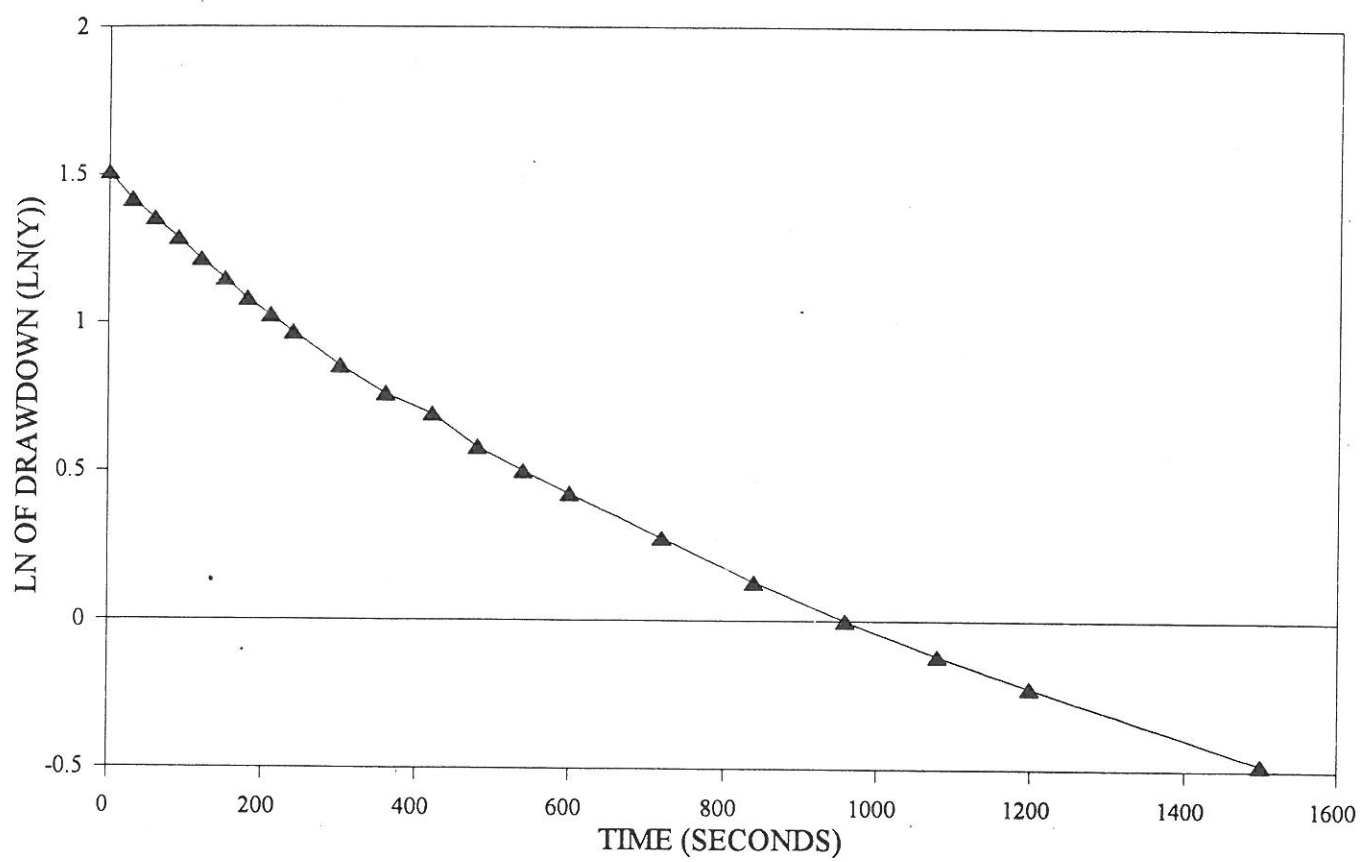
BOUWER AND RICE METHOD FOR INTERPRETATION OF SLUG TESTS: FOR UNCONFINED AND LEAKY CONFINED AQUIFERS
 TO UTILIZE THIS WORKSHEET, ENTER YOUR DATA AT LOCATIONS MARKED BY AN ***
 PROGRAM CAN INCLUDE EFFECTS OF SANDPACK DEWATERING (ASSUMING WATER IS RISING WITHIN THE SANDPACK).

#	*TIME mi (X)	*WATER LEVEL Ft	DRAWDN (Y)	TIME sec (X)	LN (Y)	*PROJECT NAME : GM Lansing Plant 3	*PROJECT NO : 35349.30	*WELL NO : MW-93-3 (SLUG out)	*ANALYST : BYRNE	*DATE COLLECTED : 2/9/94	*RISER PIPE (ID): (2 r sub c) =	*EFFECTIVE SCREEN AMETER (2 r sub w) =	*EFFECTIVE SCREEN NGTH: (L) =	*MAX DRAWDOWN (BSET): (Ymax) =	*STATIC WATER LEV (SWL) =	*DEPTH FROM SWL TO EFF. SCREEN BOTT (H) =	*EST. AQUIFER DEPTH (SWL TO AQUIFER BOTTOM): (D) =	*INCLUDE SANDPACK DEWATERING (ENTER 1 IF YES, 0 IF NO)?	*SANDPACK'S SPECIFIC YIELD (Sy) =
1	0.001	67.81	4.520	0.1	1.5085														
2	0.50	67.41	4.120	30.0	1.4159														
3	1.00	67.16	3.870	60.0	1.3533														
4	1.50	66.91	3.620	90.0	1.2865														
5	2.00	66.66	3.370	120.0	1.2149														
6	2.50	66.44	3.150	150.0	1.1474														
7	3.00	66.24	2.950	180.0	1.0818														
8	3.50	66.08	2.790	210.0	1.0260														
9	4.00	65.92	2.630	240.0	0.9670														
10	5.00	65.64	2.350	300.0	0.8544														
11	6.00	65.43	2.140	360.0	0.7608														
12	7.00	65.29	2.000	420.0	0.6931														
13	8.00	65.08	1.790	480.0	0.5822														
14	9.00	64.94	1.650	540.0	0.5008														
15	10.00	64.82	1.530	600.0	0.4253														
16	12.00	64.61	1.320	720.0	0.2776														
17	14.00	64.43	1.140	840.0	0.1310														
18	16.00	64.29	1.000	960.0	0.0000														
19	18.00	64.18	0.890	1080.0	-0.1165														
20	20.00	64.09	0.800	1200.0	-0.2231														
21	25.00	63.91	0.620	1500.0	-0.4780														

BOUWER AND RICE CURVE COEFFICIENTS:	
RATIO OF L/(r sub w) =	40.00
---LOG OF L/(r sub w) =	1.6021
FOR PARTIALLY PENETRATING WELLS--	
A =	2.77
B =	0.39
FOR FULLY PENETRATING WELLS--	
C =	2.23
---EVALUATION OF LN(Re/(r sub w))	
CONST.1 =	0.3284
CONST.2 =	4.3613
LN(Re/(r sub w)) =	2.27
EFFECTIVE r sub c (for sandpack dewatering) =	
(1/T)(LN(Yo/Yt)) (SLOPE) =	-2.08E-03 sec ⁻¹
HYDRAULIC CONDUCTIVITY (K) =	
	3.61E-06 ft/sec
	1.10E-04 cm/sec
Regression Output	
Constant	1.48
Std Err of Y Est	1.91E-02
R Squared	0.9941
No. of Observations	11.0000
Degrees of Freedom	9
X Coefficient(s)	-2.08E-03
Std Err of Coef.	5.34E-05
Regression Range	t=0.01-300.0

RATE OF RECOVERY TEST

MW-93-3 (SLUG OUT)





Appendix F

Exposure Pathway Analysis for
RACER Lansing Plants 2, 3 & 6

**Revitalizing Auto Communities
Environmental Response Trust (RACER)**

Exposure Pathway Analysis

RACER Lansing Plants 2 and 3
Lansing, Michigan

April 2013

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Acronyms and Abbreviations

AOI	Area of Interest
bgs	below ground surface
COC	constituent of concern
EPCSM	exposure pathway conceptual site model
MDEQ	Michigan Department of Environmental Quality
µg/kg	micrograms per kilogram
µg/L	micrograms per liter
mg/L	milligrams per liter
Op Memo	Operations Memorandum
PAH	polycyclic aromatic hydrocarbons
PRG	Preliminary Remediation Goal
RACER	Revitalizing Auto Communities Environmental Response
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RSL	Regional Screening Level
Site	RACER Trust Lansing Plants 2, 3, and 6
UST	underground storage tank

1. Introduction

This exposure pathway analysis was completed for the Revitalizing Auto Communities Environmental Response (RACER) Trust Lansing Plants 2, 3, and 6 (Site) as part of the Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Phase 2 Investigation Summary Report. It was prepared to identify receptors, potentially complete exposure pathways, and relevant and applicable Michigan Department of Environmental Quality (MDEQ) Part 201 promulgated criteria and draft MDEQ pathway-specific screening levels for comparison to soil, groundwater, and soil gas data collected at the Site. In addition, the pathway analysis and Site data screening evaluation will be used to determine areas of the Site that require exposure controls.

In general, Site conditions are such that the general exposure pathway conceptual site model (EPCSM) for all three plants is the same (e.g., current land use, concrete and asphalt cover over a portion of each plant, areas within each plant where shallow perched groundwater is encountered within the top 10 feet, similar off-site land uses). In addition, the anticipated future use of all three plants is for nonresidential (likely industrial) use. Several Restrictive Covenants have been filed with the deeds for the plants, as discussed in Section 2.2; however, these cover very limited areas of the Site. Therefore, one general EPCSM was developed for the Site assuming that under current conditions, no pathways have been adequately restricted and a second EPCSM was developed assuming that certain pathways would be eliminated through the placement of Restrictive Covenants on the Site, as determined through the screening evaluation.

The Site was used for industrial purposes for more than 70 years until buildings and other features were razed/removed beginning in 2007 to prepare the property for redevelopment. Currently, most of the ground surface is covered with concrete, asphalt and/or portions of the former industrial buildings (e.g., foundations, basements). There are limited areas with exposed vegetation, and there are no natural habitats or wetland areas on the Site. The anticipated future land use at the Site is industrial, and the Site is not anticipated to be redeveloped with significant areas that could serve as habitat for ecological receptors. Potential natural habitats are disturbed or non-existent. Based on current Site conditions and anticipated future land use, there are no ecological receptors identified for further evaluation at the Site.

Conditions at the Site were evaluated within the context of the current MDEQ-promulgated criteria (MDEQ 2012b); however, for shallow groundwater and soil gas, the draft screening levels for vapor intrusion (MDEQ 2012a) were used for comparison.

2. Exposure Assessment

Adverse health effects associated with constituents in environmental media can only occur if there is exposure. The objective of this exposure assessment is to identify pathways by which exposure may occur and to estimate the magnitude, frequency, duration, and routes of exposure that can reasonably be

anticipated for humans, based on the Site conditions. The information from this assessment is then used to estimate the amount of exposure that receptors may receive under the current and future anticipated conditions at the Site. This amount of exposure can then be compared to guidelines or standards, or it can be used to calculate media concentrations that can then be compared to environmental data. This can be used to provide insight into the potential for adverse health effects to occur under the conditions being evaluated.

MDEQ provides media-specific, receptor-specific, pathway-specific criteria that can be used to screen environmental data. Relevant criteria are selected based on the information summarized in the exposure assessment.

2.1 Exposure Pathways

An exposure pathway defines a probable path by which a receptor may come into contact with affected media. For an exposure pathway to be complete and exposure to occur, the following four elements must be present:

- A source and mechanism of chemical release
- A retention and/or transport medium
- A point of contact with the medium
- A route of exposure (e.g., inhalation, ingestion, dermal contact)

There must be a complete exposure pathway from the source to human receptors for chemical intake to occur. If any one of the four elements is missing, the exposure pathway is incomplete, and exposure will not occur.

An EPCSM was developed for the Site and adjacent properties to summarize the current understanding of the sources of constituents of concern (COCs), the means by which they are released and transported within and among media, and the exposure pathways and routes by which they may contact human receptors (see Figure G-1). These elements are discussed briefly in the following sections.

2.1.1 Potential Sources of Constituents

Potential sources of constituents at the Site are related to historical Site activities, which are assumed to have contributed COCs to environmental media. The Site is approximately 250 acres, with Plant 2 being approximately 63 acres, Plant 3 being approximately 104 acres, and Plant 6 being approximately 72 acres).

Areas of Interest (AOIs) were identified in the Current Conditions Report (ARCADIS 2008) and investigation activities were completed in the AOIs as part of the RFI Phase 1 investigation. Based on the results of the RFI Phase 1, described in the RFI Phase 1 Activities Summary Report (ARCADIS 2012a), additional Investigation Areas (Areas 1 through 21) were identified and evaluated in the RFI Phase 2 investigation, as described in the RFI Work Plan, Phase 2 (ARCADIS 2012b), and the Section 4 of the main text. Locations of the AOIs and Investigation Areas are shown on Figures 2 and 3 of the main document. Available historical data from each of these areas are discussed in the Current Conditions Report (ARCADIS 2008), the RFI Phase 1 Activities Summary Report (ARCADIS 2012a), and the main text of this report.

Industrial operations are no longer occurring at the Site, and residual COCs in soil and groundwater identified during the above listed investigations were evaluated as potential sources to other environmental media. There are no current activities at the Site identified as sources of additional contamination.

2.1.2 Transport Mechanisms

Migration pathways are processes by which constituents in an affected medium (i.e., soil, groundwater, or soil gas) are transported within that medium and/or between media. The pertinent migration pathways for soil, groundwater, and soil gas at the Site are discussed below:

- **Migration of Constituents from Soil to Perched Shallow Groundwater:** The infiltration of precipitation into impacted soils, the potential for the precipitation to flow through these soils, and subsequent leaching into groundwater may result in the transfer of constituents in the soil to pore space water and ultimately to groundwater. This pathway is relevant to conditions at the Site and potentially complete.
- **Migration of Constituents through Perched Shallow Groundwater:** Constituents can migrate in groundwater through two main mechanisms: gross fluid movement and dispersion. Gross fluid movement includes the movement of the groundwater itself. Dispersion occurs when there is fluid mixing and/or diffusion. The rate of migration is dependent upon aquifer characteristics and the chemical and physical characteristics of the constituent. This pathway is relevant to conditions at the Site and is potentially complete.
- **Migration of Constituents from Shallow Groundwater to Deeper Aquifers:** Constituents can migrate in groundwater through two major mechanisms: gross fluid movement and dispersion. Gross fluid movement includes the movement of the groundwater itself. Dispersion occurs when there is fluid mixing and/or diffusion. The rate of migration is dependent on aquifer characteristics and the chemical and physical characteristics of the constituent. Because the Site is located in a Wellhead Protection Area, this pathway is potentially complete.

- **Migration of Constituents from Soil to Ambient Air:** The transfer of volatile constituents present in soil to the air may occur through volatilization and subsequent migration (surface and subsurface soil) to the ground surface. This pathway is relevant to conditions at the Site and potentially complete.
- **Migration of Constituents from Soil and Shallow Groundwater to Indoor Air:** The transfer of volatile constituents present in soil and groundwater under and around a building to the air may occur through volatilization and subsequent migration into a building through cracks in the subsurface foundation. Currently, there are no buildings present on the Site; however, it is likely that the Site will be redeveloped in the future. Therefore, this pathway is relevant to future anticipated conditions at the Site and is potentially complete.
- **Migration of Constituents from Soil and Shallow Groundwater to Surface Water:** Constituents can leach from soil to groundwater and then through the groundwater to surface water. Several storm drains that ultimately discharge to the Grand River are present at the Site. Therefore, this pathway is potentially relevant and is potentially complete.
- **Movement of Constituents in Surface Soil:** Agitation of the surface soils can result in the generation of fugitive particulate emissions to ambient air. Under current conditions, most of the Site is covered by structures. This pathway was identified as relevant and potentially complete under current or potential future conditions; therefore, was further evaluated.
- **Migration of Constituents from Soil Gas to Indoor or Ambient Air:** Vapors in the soil can migrate to ambient and indoor air. This pathway is relevant to conditions at the Site and potentially complete; therefore, it was further evaluated.

2.1.3 Land Use and Potentially Exposed Populations

2.1.3.1 Potential Exposure for On-site Populations

The Site is partially located within the City of Lansing Well Head Protection Area and partially within the Township of Lansing Well Head Protection Area. A map of the Site showing the approximate plant locations and the City of Lansing and Township of Lansing Well Head Protection Areas is included as Figure 7 of the main document.

Currently, the Site is vacant, completely surrounded by fencing, and all of the buildings have been demolished. The Site is currently zoned as heavy industrial according to the City of Lansing and Township of Lansing Zoning Maps, previously included as Appendix A of the Current Conditions Report (ARCADIS 2008). It is anticipated that the Site will be redeveloped for nonresidential (industrial) use in the future.

Residential uses will be restricted through the placement of Restrictive Covenants on the properties. For the screening evaluation, it was assumed that the Site will remain nonresidential.

Based on the future anticipated land use of the Site, potentially exposed populations on Site include:

- Routine workers
- Maintenance workers
- Patrons of the future businesses and trespassers
- Construction and utility workers

Routine workers consist of people who typically spend most of the work day indoors conducting industrial or commercial activities. As noted above, routine workers are currently not present at Plants 2, 3, or 6. Future routine workers could be exposed to volatile constituents in soil or in shallow groundwater via vapor migration into indoor air in locations where buildings exist in the future. The exposure of such workers to groundwater via potable or non-potable use is not likely, as there are currently no on-site groundwater withdrawal wells for potable or non-potable uses. In addition, RACER plans to implement a Restrictive Covenant on Site to prohibit any groundwater use in the future. The drinking water pathway was assumed to be incomplete on the Site in the screening evaluation. When outdoors intermittently, routine workers can be exposed to surface soil in areas currently without cover (e.g., pavement, buildings) or in areas where cover may be removed and left uncovered in the future, as well as volatiles and particulates in ambient air.

Maintenance workers are those who may conduct occasional subsurface construction or maintenance activities (i.e., installation or repair of underground utilities, removal or repair of pavement, repair or maintenance of stormwater management systems). The depth at which groundwater is encountered varies significantly across the Site (from 5 to 30 feet below ground surface [bgs]). Subsurface activities could result in exposures to subsurface soil and perched water in some locations. Greater area-specific information is provided in Section 3.1 of the main text. Potential exposure to sediment and water are possible during repair or maintenance of stormwater management drains.

As with routine workers, patrons of future businesses and trespassers could be potentially exposed to surface soil in areas currently without cover or in areas where cover may be removed in the future and left uncovered, and volatiles and particulates in ambient air. However, the magnitude of exposures for future patrons and trespassers is expected to be significantly less than that for routine workers.

Facility decommissioning and demolition activities have been and may be conducted at Plants 2, 3, and 6. As a result, a construction worker may be exposed to surface soil in areas that are uncovered or may

become uncovered in the future. Given that decommissioning and demolition activities may also include subsurface activities, such as slab and soil removal, construction workers also may be exposed to subsurface soil and shallow groundwater.

2.1.3.1.1 Restrictive Covenants in Place on the Site

A few small areas at the Site currently have deed restrictions that serve as exposure controls; however, the screening evaluation was completed for the entire Site and did not consider the restrictions within these limited areas. The areas that are currently restricted are listed below.

- Plant 2 AOI 2-25 Building 225 Underground Storage Tank (UST) Farm: Impermeable surface required, no wells allowed, no residential zoning allowed, vapor barriers required, soil management.
- Plant 2 AOI 2-16 Building 250 UST Farm: Impermeable surface required, no wells allowed, no residential zoning allowed.
- Plant 3 AOI 3-9 Building 301 UST Farm: Impermeable surface required, no wells allowed, no residential zoning allowed, vapor barriers required.
- Plant 6 AOI 6-16 Tanks 5 and 6: Soil management plan required if soil is to be excavated from this area.
- Plant 6 AOI 6-17 Tanks 1 – 4: Soil management plan required if soil is to be excavated from this area.
- Plant 6 AOI 6-91 Dock 9 Hydraulic Oil Release: Impermeable surface required; soil management plan required if soil is to be excavated from this area.

The existing restrictions can be found in Appendix H of the Current Conditions Report (ARCADIS 2008).

2.1.3.2 Potential Exposure for Off-site Populations

Local land use for the areas adjacent to the Site is mixed, as described in the Preliminary Assessment / Visual Site Inspection (PRC Environmental Management Inc. 1994a, 1994b). The CSX railroad runs north to south along the eastern side of Plant 3 and between Plants 2 and 6. Saginaw Street runs east to west between Plant 3 and Plants 2 and 6. Plant 3 is bordered to the north by St. Joseph Cemetery, several businesses, and residential properties. Two parks and several businesses are located to the east of Plant 3, and businesses and residential properties are located to the west of Plant 3. Residential neighborhoods are also present east of Plant 6, west of Plant 2, and south of Plants 2 and 6. Sexton High School is present south of Plant 6. The Site and surrounding areas are shown on Figure 1 of the main document. Zoning of

these adjacent properties is business and residential, as shown on the previously submitted zoning maps included as Appendix A of the Current Conditions Report (ARCADIS 2008).

The potentially exposed populations in off-site areas include:

- Residents
- Routine workers
- Maintenance workers
- Students and recreational users

Off-site residents and routine workers may be exposed to constituents in soil from the Site via direct contact with impacted soil and due to windblown dust and vapors emanating from areas on the Site currently without cover or from areas which may be uncovered in the future. Off-site residents may also be exposed to volatile constituents in shallow groundwater via vapor migration into indoor air. Although there are currently no private potable wells within a ¼-mile radius of the Site and municipal water is available, portions of the Site and surrounding areas are located within the City of Lansing and Lansing Township Wellhead Protection Areas, and there is no ordinance in place that prohibits the installation of potable wells. Therefore, the EPCSM considers potential potable and non-potable use of groundwater in the future. In addition, as stated in Section 2.1.3.1 of this appendix and depicted on Figure 7 of the main document, municipal water supply wells used to obtain potable water for the City of Lansing Board of Water and Light are present off Site. The closest municipal water supply well is located 200 feet north of Plant 3.

Off-site maintenance works, in addition to being exposed to soil constituents via wind-blown dust and vapors from areas at the Site (as described for residents and routine workers above), may contact shallow soil and shallow groundwater during occasional subsurface construction or maintenance activities (i.e., installation or repair of underground utilities, or removal or repair of pavement).

Students and recreational users of the nearby parks may be exposed to constituents in ambient air or windblown dust; however, the magnitude of exposure for off-site students and recreational users is expected to be significantly less than for off-site residents, since residents are assumed to be present 24 hours a day for 350 days per year. Therefore, students and recreational users were not further evaluated in the screening evaluation.

2.1.4 Potentially Complete Exposure Pathways On-site

Exposure pathways that could be potentially complete for on-site populations were evaluated for soil, groundwater, and soil gas, as described below.

2.1.4.1.1 Soil

The following pathways were considered to be potentially complete for on-site soil:

- Direct contact with impacted soil, including dermal contact and incidental ingestion.
- Inhalation of volatile constituents in the ambient air emanating from impacted soils.
- Inhalation of volatile constituents migrating from soil to indoor air (of future buildings).
- Inhalation of constituents in impacted fugitive dust.
- Soil impacts leaching to groundwater that is used as a drinking water source.
- Soil impacts leaching to shallow groundwater and subsequent groundwater contact for subsurface activities.
- Soil impacts leaching to shallow groundwater and subsequent flow to nearby surface water.

2.1.4.1.2 Groundwater

Potentially complete exposure pathways for on-site groundwater include the following:

- Direct contact with shallow groundwater (construction and utility workers only).
- Inhalation of volatile constituents volatilizing from groundwater and migrating to indoor air (of future buildings).
- Impacts to surface water from the shallow groundwater.

2.1.4.1.3 Soil Gas

Potentially complete exposure pathways for on-site soil gas include inhalation of impacted soil gas migrating into future buildings.

2.1.4.2 Potentially Complete Exposure Pathways Off-site

Exposure pathways that could be potentially complete for off-site populations were evaluated for soil, groundwater, and soil gas, as described below.

2.1.4.2.1 Soil

Although it is unlikely that on-site soil impacts have migrated significant distances off-site, the following pathways were considered to be potentially complete for off-site soil:

- Direct contact with impacted soil, including dermal contact and incidental ingestion.
- Inhalation of volatile constituents in the ambient air emanating from impacted soils.
- Inhalation of volatile constituents migrating from impacted soil to indoor air (of future buildings).
- Inhalation of constituents in impacted fugitive dust.
- Soil impacts leaching to groundwater that is used as a drinking water source.
- Soil impacts leaching to shallow groundwater and subsequent groundwater contact for subsurface activities.
- Soil impacts leaching to shallow groundwater and subsequent flow to nearby surface water.

2.1.4.2.2 Groundwater

Potentially complete exposure pathways for off-site groundwater include the following:

- Ingestion of impacted groundwater used as a drinking water source. The Site and surrounding areas are located within the City of Lansing Wellhead Protection Area.
- Direct contact with shallow groundwater (construction and utility workers only).

- Inhalation of volatile constituents volatilizing from groundwater and migrating to indoor air (of future buildings).
- Impacts to surface water from the shallow groundwater.

2.1.4.2.3 Soil Gas

Potentially complete exposure pathways for on-site soil gas migrating to off-site properties include inhalation of impacted soil gas migrating into buildings.

2.2 Relevant and Applicable MDEQ Criteria

The following sections summarize the MDEQ Part 201 criteria that were determined to be relevant and applicable to the Site and off-site properties and that were therefore used to evaluate conditions. Criteria were identified based on the information summarized in the exposure assessment presented above and summarized in the EPCSM for current use (Figure G-1) and anticipated future land use with consideration of planned deed restrictions (Figure G-2).

Based on the screening evaluation (presented in Section 5 of the main text), Restrictive Covenants will be proposed for the Site to the extent practicable to eliminate unacceptable exposures to soil, groundwater, and soil gas impacts. Land use will be restricted to nonresidential uses, institutional controls (i.e., no use of groundwater) will be implemented, and engineering controls (i.e., vapor barriers on future buildings) will be required, as needed. The EPCSM, which considers the use of Restrictive Covenants to eliminate unacceptable exposures, is presented on Figure G-2.

2.2.1 Soil

Soil data have been collected on Site at Plants 2, 3, and 6 and at various off-site locations. The following table summarizes the relevant and applicable criteria for on-site and off-site soil based on current conditions and for future conditions, where it is assumed Restrictive Covenants have been placed on the Site to control potential unacceptable exposures. For inorganic constituents, if the available Statewide Default Background Level was greater than a criterion, then the pathway-specific criterion defaults to the Statewide Default Background Level.

Table 1. Summary of Relevant and Applicable Soil Criteria

Criteria	Current Conditions		Anticipated Future Conditions	
	On-site Soil	Off-site Soil	On-site Soil	Off-site Soil
Drinking Water Protection Criteria (a)	NPC	R & A (Res)	NPC (d)	R & A (Res)
Groundwater Surface Water Interface Protection Criteria (b)	R & A	R & A	R & A	R & A
Groundwater Contact Protection Criteria	R & A	R & A	NPC (d)	R & A
Soil Volatilization to Indoor Air Inhalation Criteria	R & A (NR)	R & A (Res)	NPC (d)	R & A (Res)
Infinite Source Volatile Soil Inhalation Criteria (c)	R & A (NR)	R & A (Res)	R & A (NR)	R & A (Res)
Particulate Soil Inhalation Criteria (c)	R & A (NR)	R & A (Res)	R & A (NR)	R & A (Res)
Direct Contact Criteria	R & A (NR)	R & A (Res)	NPC (d)	R & A (Res)
Soil Saturation (Csat) Levels	R & A	R & A	R & A	R & A

Notes:

NPC – not potentially complete

NR – nonresidential

R & A – Relevant and Applicable

Res – residential

(a) Because the Site is located within a Wellhead Protection Area, the residential DWP Criteria are applicable and relevant.

(b) For select metals, the Groundwater Surface Water Interface Protection Criteria are dependent on the water hardness of the receiving water body. Site-specific criteria were based on a hardness value of 257 milligrams per liter (mg/L) as calcium carbonate, based on the average of data available for the Grand River both upstream and downstream of the Site (MDEQ 2005, 2007b).

(c) Following recommendations in MDEQ Operational Memorandum Number 1 (Op Memo No. 1), Attachment 7 (MDEQ 2007a), the residential and nonresidential Infinite Source Volatilization to Indoor Air Inhalation and Particulate Soil Inhalation Criteria were adjusted by a factor of 0.43 to account for a potential source area size of 100 acres, which is roughly equal to or greater than the size of each plant.

(d) Pathway will be restricted as needed based on results of the screening level evaluation.

2.2.2 Groundwater

The following table summarizes the relevant and applicable criteria for on-site and off-site groundwater under current conditions and for future conditions based on anticipated Restrictive Covenants.

Table 2. Summary of Relevant and Applicable Groundwater Criteria

Criteria	Current Conditions		Anticipated Future Conditions	
	On-site Groundwater	Off-site Groundwater	On-site Groundwater	Off-site Groundwater
Drinking Water Criteria (a)	NPC	R & A (Res)	NPC (e)	R & A (Res)
Groundwater Surface Water Interface Criteria (b)	R & A	R & A	R & A	R & A
Groundwater Contact Criteria	R & A	R & A	NPC (e)	R & A
Groundwater Volatilization to Indoor Air Inhalation Criteria (c)	R & A (NR)	R & A (Res)	NPC (e)	R & A (Res)
Draft Groundwater Concentrations for Vapor Intrusion (GW_{VI-res} and GW_{VI-nr}) (d)	R & A (NR)	R & A (Res)	NPC (e)	R & A (Res)
Acute Inhalation Screening Levels	R & A	R & A	R & A	R & A
Flammability and Explosivity Screening Levels	R & A	R & A	R & A	R & A
Water Solubility Levels	R & A	R & A	R & A	R & A

Notes:

NPC – not potentially complete

NR – nonresidential

R & A – Relevant and Applicable

Res – residential

(a) Because the Site is located within a Wellhead Protection Area, the residential Drinking Water Criteria are applicable and relevant.

(b) For select metals, the Groundwater Surface Water Interface Criteria are dependent on the water hardness of the receiving water body. Site-specific criteria were based on a hardness value of 257 mg/L as calcium carbonate, based on the average of data available for the Grand River both upstream and downstream of the Site (MDEQ 2005, 2007b).

(c) These criteria are only applicable for groundwater deeper than 3 meters (approximately 10 feet) bgs.

(d) These draft screening levels (MDEQ 2012a) were used to evaluate the vapor intrusion pathway for groundwater encountered at a depth of less than 3 meters (approximately 10 feet) bgs.

(e) Pathway will be restricted as needed based on results of the screening level evaluation.

2.2.3 Soil Gas

Soil gas samples have been collected at the Site from four locations located near the property boundaries. The following table summarizes the relevant and applicable draft screening levels for soil gas under current conditions and for future conditions based on anticipated Restrictive Covenants. As a conservative screening estimate, the on-site soil gas data were used to evaluate potential off-site receptors.

Table 3. Summary of Relevant and Applicable Soil Gas Criteria

Criteria	Current Conditions		Anticipated Future Conditions	
	On-site Receptors	Off-site Receptors	On-site Receptors	Off-site Receptors
Draft Soil Gas Concentrations for Vapor Intrusion	R & A (NR)	R & A (Res)	NPC (a)	R & A (Res)

Notes:

NPC – not potentially complete

NR – nonresidential

R & A – Relevant and Applicable

Res – residential

(a) Pathway will be restricted as needed based on results of the screening level evaluation

2.3 Constituents Lacking Criteria

Ten constituents were detected in soil and/or groundwater samples that lack promulgated or draft MDEQ Part 201 criteria. Data for these constituents are included in Tables 12 through 17 of the main document, and sample locations are shown on Figures 15 and 16 of the main document. Table G-4 provides a summary of the constituents, the frequency of detection across the three plants combined, the maximum detected concentrations, the Investigation Areas in which the constituents were detected, and the rationale for why each constituent was not evaluated further.

The data were evaluated for frequency of detection, magnitude of detection, and locations (i.e., co-located detections with other COCs and delineation) to determine whether additional evaluation should be completed for the detected constituents lacking criteria. If relevant criteria from other reliable sources, such as the U.S. Environmental Protection Agency (USEPA) Regional Screening Levels (RSLs) (USEPA 2012), were available to further put levels detected in perspective, these were also reference and considered (e.g. Tapwater RSL¹, Industrial Soil direct contact²). In addition, any corrective measures, including remedial actions (removal or treatment) and the placement of Restrictive Covenants (institutional or engineering controls), will address the identified COCs as well as the constituents lacking criteria.

Information for each constituent is detailed in Table G-4 and briefly summarized below.

¹ The RSL for Tapwater accounts for ingestion of, dermal contact with, and inhalation of vapors during household use of impacted groundwater. RSLs based on carcinogenic effects were multiplied by 10 to account for a target risk of 1×10^{-5} to be consistent with the MDEQ.

² The RSL for Industrial Soil direct contact accounts for incidental ingestion of, dermal contact with, and inhalation volatiles and particulates from impacted soil. RSLs based on carcinogenic effects were multiplied by 10 to account for a target risk of 1×10^{-5} to be consistent with the MDEQ.

- 2-Nitroaniline, 4-nitrophenol, and bis(2-chloroethoxy)methane were not detected in groundwater and were only detected one time in soil at relatively low concentrations (40 micrograms per kilogram [$\mu\text{g}/\text{kg}$], 50 $\mu\text{g}/\text{kg}$, and 350 $\mu\text{g}/\text{kg}$, respectively). These detections were delineated by multiple samples collected in within approximately 100 feet of the detections. Due to the low frequencies of detection (less than 0.1 percent), maximum detections below the RSLs, and locations of the detections, these constituents were not identified as COCs and additional evaluation is not warranted.
- Methyl acetate was detected in three soil samples and was not detected in groundwater. Soil concentrations were relatively low (maximum detection of 1.810 $\mu\text{g}/\text{kg}$). The detections are delineated non-detect by several soil borings within 150 feet of each detection. Due to the low frequency of detection (<1 percent), the maximum detection below the RSL for direct contact, and locations of the detections, methyl acetate was not identified as a COC and additional evaluation is not warranted.
- 2,2'-Oxybis(1-chloropropane) was not detected in soil and was detected only one time in groundwater at a relatively low concentration (1 microgram per liter [$\mu\text{g}/\text{L}$]). In addition, the detection is delineated to non-detect by several monitoring wells within 100 feet. Due to the low frequency of detection, maximum detection below adjusted RSL for Tapwater, and location of the detection, 2,2'-oxybis(1-chloropropane) was not identified as a COC and additional evaluation is not warranted.
- Benzaldehyde was detected in two soil samples and three groundwater samples at relatively low concentrations (maximum soil detection of 1,400 $\mu\text{g}/\text{kg}$ and maximum groundwater detection of 2 $\mu\text{g}/\text{L}$) that are well below the RSLs for Industrial Soil direct contact and Tapwater. The detections of soil are delineated to non-detect by several soil borings within 100 feet, and the detections in groundwater are delineated to non-detect or are well below the Tapwater RSL. Due to the low frequencies of detection in soil and groundwater, the relatively low concentrations, and the locations of the detections, benzaldehyde was not identified as a COC and additional evaluation is not warranted.
- 1,1-Biphenyl was detected in 12 soil samples and in two groundwater samples a relatively low concentrations (maximum detection in soil of 4,000 $\mu\text{g}/\text{kg}$ and in groundwater of 20 $\mu\text{g}/\text{L}$). The maximum soil detection is below the Industrial Soil RSL. The soil and groundwater detections are delineated by several soil borings and monitoring wells within 100 feet of the detections, and impacts do not extend off Site. Due to the low frequencies of detection, relatively low magnitude of detections, and the fact that on-site groundwater is not currently used and future use will be prohibited through a Restrictive Covenant, 1,1-biphenyl was not identified as a COC and additional evaluation is not warranted.
- 1-Methylnaphthalene was detected in one soil sample and one groundwater sample at relatively low concentrations (maximum detection in soil of 500 $\mu\text{g}/\text{kg}$ and in groundwater of 2 $\mu\text{g}/\text{L}$) that were below the RSL for Industrial Soil direct contact and the adjusted Tapwater RSL. The detections were in Area 17 and were co-located with other polycyclic aromatic hydrocarbons (PAHs) adjacent to the non-

aqueous phase liquid-impacted area. Corrective measures taken to control exposures to other COCs (PAHs) in this area will also control exposures to 1-methylnaphthalene. The detections are delineated to non-detect by samples collected in multiple soil borings and monitoring wells within 100 feet of the detections within the property boundary. Based on detections that are co-located with other PAH impacts and that are below the RSLs for Tapwater and Industrial Soil, 1-methylnaphthalene was not identified as a COC and does not warrant additional evaluation.

- Cyclohexane was detected in 29 soil samples and in 16 groundwater samples. Cyclohexane is not included in the promulgated MDEQ Part 201 criteria tables, however, there are draft vapor intrusion screening levels. The maximum detection of cyclohexane in groundwater did not exceed the MDEQ draft residential or nonresidential Groundwater Concentrations for Vapor Intrusion (GW_{VI-nr}), or the RSL for Tapwater. The detections of cyclohexane in soil in Investigation Areas 5-4, 5-6, 5-7, and 10 were relatively low (less than 300 micrograms per kilogram [$\mu\text{g}/\text{kg}$]). The detections of cyclohexane in Areas 7, 9, and 17 were elevated; however, they were co-located with other petroleum impacts. The detections of cyclohexane in soil were below the RSLs for Industrial Soil direct contact. Detections have been delineated in soil and groundwater within the Site boundaries. Based on the detections being below the RSLs for Industrial Soil and Tapwater, low magnitudes of detection in Investigation Areas 5-4, 5-6, 5-7, and 10, and the co-located impacts in Areas 7, 9, and 17, cyclohexane was not identified as a COC and additional evaluation is not warranted.
- Methylcyclohexane was detected in 62 soil samples and 17 groundwater samples. The detections of methylcyclohexane in groundwater were relatively low (maximum of 51 micrograms per liter [$\mu\text{g}/\text{L}$])³. In general, the magnitude of soil detections in Investigation Areas 1, 5-3, 5-4, 5-5, 5-6, 5-7, 8, 10, and 16 were relatively low (maximum of 2,400 $\mu\text{g}/\text{kg}$), with the higher detections being co-located with other petroleum impacts that are anticipated to be addressed through corrective measures. The detections of methylcyclohexane in soil in Investigation Areas 7, 9, and 17 were higher; however, the detections were co-located with other petroleum impacts. The detections of methylcyclohexane in soil and groundwater have been delineated to non-detect by samples collected in nearby soil borings within the Site boundaries. Corrective measures such as exposure barriers and institutional controls designed to address the co-located petroleum impacts will also address the methylcyclohexane impacts. Based on the magnitudes of detections and co-located impacts, methylcyclohexane was not identified as a COC and does not warrant further evaluation.

Based on the above evaluation, none of the constituents lacking MDEQ criteria were identified as COCs for further evaluation.

³ Although no longer used by USEPA, the 2004 USEPA Region 9 Preliminary Remediation Goal (PRG) for Tapwater was 5,200 $\mu\text{g}/\text{L}$ and the Industrial Soil PRG was 8,700,000 $\mu\text{g}/\text{kg}$. Currently, the USEPA does not provide RSLs and indicates that there is inadequate data to develop toxicity values (USEPA 2013).

3. References

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- MDEQ. 2007a. RRD Operational Memorandum No. 1, Technical Support Document – Attachment 7, Part 201 Generic Soil Inhalation Criteria for Ambient Air, Part 213 Tier I Soil Inhalation Risk-Based Screening Levels for Ambient Air. July.
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- PRC Environmental Management Inc. 1994a. PA/VSI General Motors Corporation, Lansing Car Assembly Body Plant (Plant 6). Lansing, Michigan, MID 005 356 928. March 24.
- PRC Environmental Management Inc. 1994b. Preliminary Assessment / Visual Site Inspection General Motors Corporation, Oldsmobile Division Plants 2 and 3, Lansing, Michigan, MID 980 700 827. March 25.
- USEPA. 2012. Regional Screening Level (RSL) Summary Table November 2012. Available at http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/pdf/master_sl_table_run_NOV2012.pdf.
- USEPA. 2013. Provisional Peer-Reviewed Toxicity Values for Methylcyclohexane (CASRN 108-87-2). Available at http://hhprrtv.ornl.gov/issue_papers/Methylcyclohexane.pdf. January 8.

Tables

Table 4. Summary of Constituents Lacking MDEQ Part 201 Criteria

Exposure Pathway Analysis
RACER Plants 2 and 3, Lansing, Michigan

Constituent	Soil		Groundwater		Plants and Areas Detected	Rational for not evaluating further
	FOD (%)	Detect (µg/kg)	FOD (%)	Detect (µg/L)		
2-Nitroaniline	1/1115 (0.09%)	40	0/318 (0%)	ND	Plant 2 - Area 8	- Not likely Site-related - FOD below 0.1% and not regulated as carcinogen - Delineated to non-detect by 5 soil borings within 25 feet - Detection is well below the USEPA Industrial Soil Direct Contact RSL of 6,000,000 µg/kg
bis(2-Chloroethoxy)methane	1/1115 (0.09%)	350	0/318 (0%)	ND	Plant 2 - Area 8	- Not likely Site-related - FOD below 0.1% and not regulated as carcinogen - Delineated to non-detect by 5 soil borings within 25 feet - Detection is well below the USEPA Industrial Soil Direct Contact RSL of 1,800,000 µg/kg
4-Nitrophenol	1/1110 (0.09%)	50	0/317 (0%)	ND	Plant 2 - Area 5-2	- Not likely Site-related - FOD below 0.1% and not regulated as carcinogen - Delineated to non-detect by 13 soil borings within 100 feet
Methyl acetate	3/624 (0.5%)	1,810	0/255 (0%)	ND	Plant 2 - Areas 5-1, 5-2 Plant 6 - Area 7	- Not likely Site-related - FOD below 1% and not regulated as a carcinogen - Detections delineated to non-detect within 150 feet by multiple soil borings - Detection is well below the USEPA Industrial Soil Direct Contact RSL of 1,000,000,000 µg/kg
2,2'-Oxybis(1-chloropropane)	0/1115 (0%)	ND	1/318 (0.3%)	1	Plant 3 - Area 17	- Not likely Site-related - FOD below 1% - Delineated to non-detect by at least 10 monitoring wells within 100 feet - Detection is below the USEPA Tapwater RSL of 3.1 µg/L (adjusted for an ELCR of 1×10^{-5} to be consistent with MDEQ)
Benzaldehyde	2/1115 (0.2%)	1,400	3/318 (0.9%)	2	Plant 2 - Area 5-2 Plant 3 - Area 18 Plant 6 - Areas 5-7, 5-8 (north), 10	- Not likely Site-related - FOD below 1% - Detections are all well below the USEPA Industrial Soil Direct Contact RSL of 100,000,000 µg/kg and the Tapwater RSL of 1,500 µg/L - Detections in soil delineated to non-detect by several soil borings or monitoring wells within 100 feet of the detections. Detections in groundwater delineated to non-detect or are below the USEPA Tapwater RSL (detected in groundwater at the reporting limit of 1 µg/L at Monitoring Well MW-12-12 in Plant 6).
1,1-Biphenyl	12/1115 (1%)	4,000	2/318 (1%)	20	Plant 2 - Areas 1, 5-2, 5-3, 5-5 Plant 3 - Area 17 Plant 6 - Area 9	- FOD for soil at 1% and for groundwater at 0.6% - Detections delineated to non-detect by several soil borings or monitoring wells within 100 feet of each detection - Detections in soil are below the USEPA Industrial Soil Direct Contact RSL of 210,000 µg/kg - Detections in groundwater are above the USEPA Tapwater RSL of 0.83 µg/L; however, on-site groundwater use will be prohibited through a Restrictive Covenant and impacts do not extend off-site

Table 4. Summary of Constituents Lacking MDEQ Part 201 Criteria

Exposure Pathway Analysis
RACER Plants 2 and 3, Lansing, Michigan

Constituent	Soil		Groundwater		Plants and Areas Detected	Rational for not evaluating further
	FOD (%)	Detect (µg/kg)	FOD (%)	Detect (µg/L)		
1-Methylnaphthalene	1/54 (2%)	500	1/9 (11%)	2	Plant 3 - Area 17	- Detections delineated to non-detect by multiple soil borings and monitoring wells within 100 feet - Detections are below the USEPA Industrial Soil Direct Contact RSL of 530,000 µg/kg and the Tapwater RSL of 9.7 µg/L (both adjusted for an ELCR of 1×10^{-5}) - Detections are co-located in areas with other PAH impacts (including naphthalene) and in a NAPL area, and corrective measures conducted to address other PAHs will also address 1-methylnaphthalene
Cyclohexane	29/1228 (2%)	31,000	16/363 (4%)	113	Plant 2 - Area 5-4 Plant 3 - Area 17 Plant 6 - Areas 5-6, 5-7, 7, 9, 10	- Detections delineated to non-detect by several borings or monitoring wells within 100 feet of the detections - Detections in soil are well below the USEPA Industrial Soil Direct Contact RSL of 29,000,000 µg/kg - Detections in groundwater are well below the draft MDEQ Groundwater Concentration for Vapor Intrusion of 8,100 µg/L and the USEPA Tapwater RSL of 13,000 µg/L - The higher detections are co-located with other petroleum impacts, and corrective measures designed to address the other petroleum impacts will also address the cyclohexane impacts
Methylcyclohexane	62/1228 (5%)	270,000	17/363 (5%)	51	Plant 2 - Areas 1, 2, 5-3, 5-4, 5-5, 8 Plant 3 - Areas 16, 17 Plant 6 - Areas 5-5, 5-6, 5-7, 7, 9, 10	- Detections delineated by several soil borings and monitoring wells to non-detect within 100 feet of the detections - The higher detections (mg/kg range) are co-located with other petroleum impacts, and corrective measures designed to address the other petroleum impacts will also address the methylcyclohexane impacts

Notes:

µg/kg - microgram per kilogram

µg/L - microgram per liter

ELCR - excess lifetime cancer risk

FOD - frequency of detection

MDEQ - Michigan Department of Environmental Quality

NAPL - nonaqueous phase liquid

ND - not detected

PAH - polycyclic aromatic hydrocarbons

RSL - Regional Screening Level

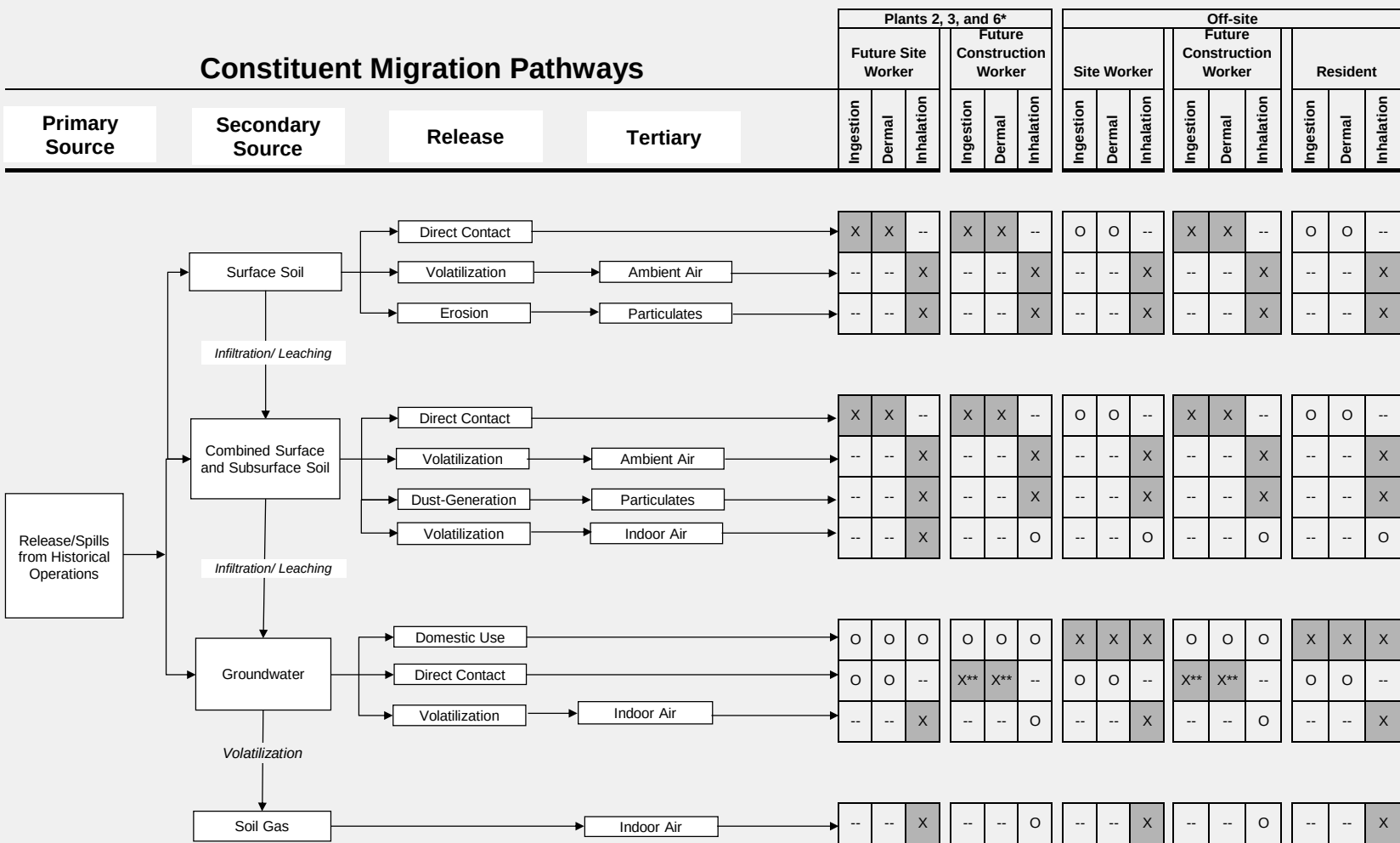
USEPA - United States Environmental Protection Agency

USEPA RSLs - USEPA. 2012. Regional Screening Levels Tables. Available at http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm

Direct Contact RSL - based on incidental ingestion of, dermal contact with, and inhalation of volatiles and particulates from impacted soil

Tapwater RSL - based on ingestion of, dermal contact with, and inhalation of volatiles during domestic use of groundwater

Figures



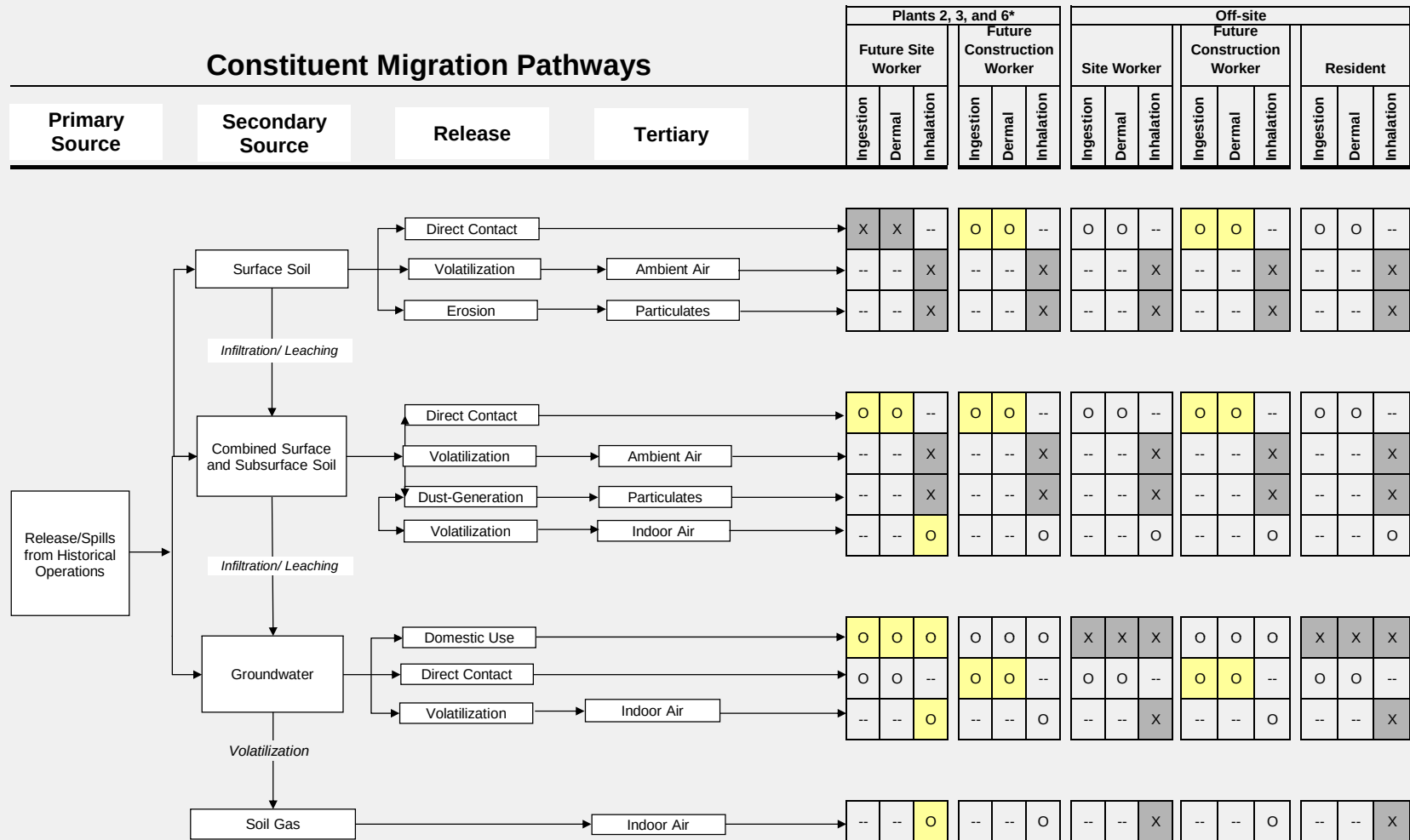
* = Exposure assumptions are the same for Plants 2, 3, and 6
 ** = Shallow groundwater only present in select areas of Plants 2, 3, and 6
 X = Potentially Complete Exposure Pathway
 O = Incomplete Exposure Pathway
 -- = Not Applicable



Exposure Pathway Conceptual Site Model - No Exposure Controls
Human Health Risk Assessment
RACER Lansing Plants 2, 3, and 6

Figure 1

Constituent Migration Pathways



* = Exposure assumptions are the same for Plants 2, 3, and 6

** = Shallow groundwater only present in select areas of Plants 2, 3, and 6

X = Potentially Complete Exposure Pathway

O = Exposure will be controlled, as needed, through institutional controls (e.g., requirement of health and safety plan, or no excavation) or engineering controls (e.g., vapor barrier)

O = Incomplete Exposure Pathway

-- = Not Applicable



Exposure Pathway Conceptual Site Model with Anticipated Exposure Controls
Human Health Risk Assessment
RACER Lansing Plants 2, 3, and 6

Figure 2



Appendix G

Analytical Reports – Plant 2



Analytical Laboratory Report

Revised Report

Report ID: S52344.01(02)

Generated on 05/21/2012

Replaces report S52344.01(01) generated on 05/11/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52344.01-S52344.14

Project: B0064479.2012.00105

Collected Date: 04/30/2012

Submitted Date/Time: 04/30/2012 16:45

Sampled by: Unknown

P.O. #: PO125047

PCB reporting limit lowered.

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

""Not detected"" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Revised Report

Sample Summary (14 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52344.01	VAP-A5.2-NU137_0-2	Soil	04/30/2012 12:30
S52344.02	VAP-A5.2-NU137_5-6	Soil	04/30/2012 13:30
S52344.03	VAP-A5.2-NU137_10-11	Soil	04/30/2012 14:10
S52344.04	VAP-A5.2-NU137_15-16	Soil	04/30/2012 14:20
S52344.05	VAP-A5.2-NU137_20-21	Soil	04/30/2012 14:25
S52344.06	VAP-A5.2-NU137_23-24	Soil	04/30/2012 15:30
S52344.07	SB-A5.2-NU132_1-2	Soil	04/30/2012 12:42
S52344.08	SB-A5.2-NU132_2-3	Soil	04/30/2012 12:52
S52344.09	SB-A5.2-NV133_1-2	Soil	04/30/2012 13:45
S52344.10	SB-A5.2-NV133_4-5	Soil	04/30/2012 13:50
S52344.11	SB-A5.2-NV133_9-10	Soil	04/30/2012 14:06
S52344.12	SB-A5.2-NV133_6-7	Soil	04/30/2012 14:20
S52344.13	SB-A5.2-NV133_12-13.7	Groundwater	04/30/2012 15:35
S52344.14	SB-A5.2-NV133_12-13	Soil	04/30/2012 15:50



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.01
Sample Tag: VAP-A5.2-NU137_0-2
Collected Date/Time: 04/30/2012 12:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	04/30/12 22:59	EMR		
Extraction, PCB	Completed			3550B	05/01/12 12:11	CCM		
Mercury Digestion	Completed			7471A	05/03/12 11:30	JRH		
Metal Digestion	Completed			3050B	05/07/12 10:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/01/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/03/12 14:05	PER	7440-36-0	
Arsenic	0.80	mg/kg	0.10	6020	05/03/12 14:05	PER	7440-38-2	
Barium	15.5	mg/kg	1.0	6020	05/03/12 14:05	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/03/12 14:05	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/03/12 14:05	PER	7440-42-8	
Cadmium	0.16	mg/kg	0.10	6020	05/03/12 14:05	PER	7440-43-9	
Chromium	3.43	mg/kg	0.20	6020	05/03/12 14:05	PER	7440-47-3	
Cobalt	1.98	mg/kg	0.20	6020	05/03/12 14:05	PER	7440-48-4	
Copper	10.6	mg/kg	0.20	6020	05/03/12 14:05	PER	7440-50-8	
Lead	14.3	mg/kg	0.30	6020	05/03/12 14:05	PER	7439-92-1	
Manganese	202	mg/kg	0.20	6020	05/03/12 14:05	PER	7439-96-5	
Mercury	0.0149	mg/kg	0.0055	7471A	05/03/12 15:52	JRT	7439-97-6	
Nickel	6.42	mg/kg	0.20	6020	05/03/12 14:05	PER	7440-02-0	
Selenium	0.20	mg/kg	0.20	6020	05/03/12 14:05	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/03/12 14:05	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/03/12 14:05	PER	7440-28-0	
Vanadium	2.09	mg/kg	0.20	6020	05/03/12 14:05	PER	7440-62-2	
Zinc	26.8	mg/kg	1.0	6020	05/03/12 14:05	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	10	8082A	05/01/12 12:42	JANB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	10	8082A	05/01/12 12:42	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	10	8082A	05/01/12 12:42	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	10	8082A	05/01/12 12:42	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	10	8082A	05/01/12 12:42	JANB	12672-29-6	Y
PCB-1254	100	ug/kg	10	8082A	05/01/12 12:42	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	10	8082A	05/01/12 12:42	JANB	11096-82-5	Y

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	208-96-8	

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.01 (continued)

Sample Tag: VAP-A5.2-NU137_0-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	98-86-2	
Anthracene	100	ug/kg	40	8270C	05/03/12 00:10	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 00:10	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	100-52-7	
Benzo(a)anthracene	320	ug/kg	40	8270C	05/03/12 00:10	PL	56-55-3	
Benzo(a)pyrene	340	ug/kg	40	8270C	05/03/12 00:10	PL	50-32-8	
Benzo(b)fluoranthene	690	ug/kg	40	8270C	05/03/12 00:10	PL	205-99-2	p
Benzo(ghi)perylene	80	ug/kg	40	8270C	05/03/12 00:10	PL	191-24-2	
Benzo(k)fluoranthene	700	ug/kg	40	8270C	05/03/12 00:10	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	108-60-1	
Chrysene	350	ug/kg	40	8270C	05/03/12 00:10	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/03/12 00:10	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 00:10	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	1,560	ug/kg	70	8270C	05/03/12 00:10	PL	117-81-7	
Fluoranthene	700	ug/kg	40	8270C	05/03/12 00:10	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	80	ug/kg	40	8270C	05/03/12 00:10	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/03/12 00:10	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	88-74-4	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.01 (continued)

Sample Tag: VAP-A5.2-NU137_0-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 00:10	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	87-86-5	
Phenanthrene	240	ug/kg	40	8270C	05/03/12 00:10	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	108-95-2	
Pyrene	590	ug/kg	40	8270C	05/03/12 00:10	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 00:10	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.02
Sample Tag: VAP-A5.2-NU137_5-6
Collected Date/Time: 04/30/2012 13:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	04/30/12 22:59	EMR		
Extraction, PCB	Completed			3550B	05/01/12 12:11	CCM		
Mercury Digestion	Completed			7471A	05/03/12 11:30	JRH		
Metal Digestion	Completed			3050B	05/07/12 10:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/01/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/03/12 14:08	PER	7440-36-0	
Arsenic	0.85	mg/kg	0.10	6020	05/03/12 14:08	PER	7440-38-2	
Barium	21.3	mg/kg	1.0	6020	05/03/12 14:08	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/03/12 14:08	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	05/03/12 14:08	PER	7440-42-8	
Cadmium	0.12	mg/kg	0.10	6020	05/03/12 14:08	PER	7440-43-9	
Chromium	3.93	mg/kg	0.21	6020	05/03/12 14:08	PER	7440-47-3	
Cobalt	1.89	mg/kg	0.21	6020	05/03/12 14:08	PER	7440-48-4	
Copper	8.37	mg/kg	0.21	6020	05/03/12 14:08	PER	7440-50-8	
Lead	7.94	mg/kg	0.21	6020	05/03/12 14:08	PER	7439-92-1	
Manganese	295	mg/kg	0.21	6020	05/03/12 14:08	PER	7439-96-5	
Mercury	0.0120	mg/kg	0.0057	7471A	05/03/12 15:32	JRT	7439-97-6	
Nickel	6.60	mg/kg	0.21	6020	05/03/12 14:08	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/03/12 14:08	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/03/12 14:08	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/03/12 14:08	PER	7440-28-0	
Vanadium	3.49	mg/kg	0.21	6020	05/03/12 14:08	PER	7440-62-2	
Zinc	15.0	mg/kg	1.0	6020	05/03/12 14:08	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	5	8082A	05/01/12 12:52	JANB	12674-11-2	X
PCB-1242	Not detected	ug/kg	5	8082A	05/01/12 12:52	JANB	53469-21-9	X
PCB-1221	Not detected	ug/kg	5	8082A	05/01/12 12:52	JANB	11104-28-2	X
PCB-1232	Not detected	ug/kg	5	8082A	05/01/12 12:52	JANB	11141-16-5	X
PCB-1248	Not detected	ug/kg	5	8082A	05/01/12 12:52	JANB	12672-29-6	X
PCB-1254	Not detected	ug/kg	5	8082A	05/01/12 12:52	JANB	11097-69-1	X
PCB-1260	Not detected	ug/kg	5	8082A	05/01/12 12:52	JANB	11096-82-5	X

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	208-96-8	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.02 (continued)

Sample Tag: VAP-A5.2-NU137_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	98-86-2	
Anthracene	60	ug/kg	40	8270C	05/02/12 17:25	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/02/12 17:25	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	100-52-7	
Benzo(a)anthracene	160	ug/kg	40	8270C	05/02/12 17:25	PL	56-55-3	
Benzo(a)pyrene	160	ug/kg	40	8270C	05/02/12 17:25	PL	50-32-8	
Benzo(b)fluoranthene	290	ug/kg	40	8270C	05/02/12 17:25	PL	205-99-2	p
Benzo(ghi)perylene	70	ug/kg	40	8270C	05/02/12 17:25	PL	191-24-2	
Benzo(k)fluoranthene	300	ug/kg	40	8270C	05/02/12 17:25	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	108-60-1	
Chrysene	190	ug/kg	40	8270C	05/02/12 17:25	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/02/12 17:25	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/02/12 17:25	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	160	ug/kg	80	8270C	05/02/12 17:25	PL	117-81-7	
Fluoranthene	370	ug/kg	40	8270C	05/02/12 17:25	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	60	ug/kg	40	8270C	05/02/12 17:25	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/02/12 17:25	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	88-74-4	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.02 (continued)

Sample Tag: VAP-A5.2-NU137_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/02/12 17:25	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	87-86-5	
Phenanthrene	230	ug/kg	40	8270C	05/02/12 17:25	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	108-95-2	
Pyrene	300	ug/kg	40	8270C	05/02/12 17:25	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 17:25	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.03

Sample Tag: VAP-A5.2-NU137_10-11

Collected Date/Time: 04/30/2012 14:10

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	04/30/12 22:59	EMR		
Extraction, PCB	Completed			3550B	05/01/12 12:11	CCM		
Mercury Digestion	Completed			7471A	05/03/12 11:30	JRH		
Metal Digestion	Completed			3050B	05/07/12 10:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/01/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/03/12 14:10	PER	7440-36-0	
Arsenic	1.08	mg/kg	0.10	6020	05/03/12 14:10	PER	7440-38-2	
Barium	22.1	mg/kg	1.0	6020	05/03/12 14:10	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/03/12 14:10	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/03/12 14:10	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/03/12 14:10	PER	7440-43-9	
Chromium	2.32	mg/kg	0.20	6020	05/03/12 14:10	PER	7440-47-3	
Cobalt	2.20	mg/kg	0.20	6020	05/03/12 14:10	PER	7440-48-4	
Copper	8.66	mg/kg	0.20	6020	05/03/12 14:10	PER	7440-50-8	
Lead	4.10	mg/kg	0.20	6020	05/03/12 14:10	PER	7439-92-1	
Manganese	247	mg/kg	0.20	6020	05/03/12 14:10	PER	7439-96-5	
Mercury	0.0073	mg/kg	0.0054	7471A	05/03/12 15:34	JRT	7439-97-6	
Nickel	6.31	mg/kg	0.20	6020	05/03/12 14:10	PER	7440-02-0	
Selenium	0.28	mg/kg	0.20	6020	05/03/12 14:10	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/03/12 14:10	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/03/12 14:10	PER	7440-28-0	
Vanadium	3.65	mg/kg	0.20	6020	05/03/12 14:10	PER	7440-62-2	
Zinc	12.1	mg/kg	1.0	6020	05/03/12 14:10	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/01/12 14:16	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/01/12 14:16	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/01/12 14:16	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/01/12 14:16	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/01/12 14:16	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/01/12 14:16	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/01/12 14:16	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.03 (continued)

Sample Tag: VAP-A5.2-NU137_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/02/12 17:58	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/02/12 17:58	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/02/12 17:58	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/02/12 17:58	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/02/12 17:58	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.03 (continued)

Sample Tag: VAP-A5.2-NU137_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/02/12 17:58	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 17:58	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.04

Sample Tag: VAP-A5.2-NU137_15-16

Collected Date/Time: 04/30/2012 14:20

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	04/30/12 22:59	EMR		
Extraction, PCB	Completed			3550B	05/01/12 12:11	CCM		
Mercury Digestion	Completed			7471A	05/03/12 11:30	JRH		
Metal Digestion	Completed			3050B	05/07/12 10:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/01/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/03/12 14:13	PER	7440-36-0	
Arsenic	2.24	mg/kg	0.10	6020	05/03/12 14:13	PER	7440-38-2	
Barium	23.2	mg/kg	1.0	6020	05/03/12 14:13	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/03/12 14:13	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/03/12 14:13	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/03/12 14:13	PER	7440-43-9	
Chromium	2.20	mg/kg	0.20	6020	05/03/12 14:13	PER	7440-47-3	
Cobalt	2.33	mg/kg	0.20	6020	05/03/12 14:13	PER	7440-48-4	
Copper	7.46	mg/kg	0.20	6020	05/03/12 14:13	PER	7440-50-8	
Lead	3.94	mg/kg	0.20	6020	05/03/12 14:13	PER	7439-92-1	
Manganese	234	mg/kg	0.20	6020	05/03/12 14:13	PER	7439-96-5	
Mercury	0.0064	mg/kg	0.0055	7471A	05/03/12 15:36	JRT	7439-97-6	
Nickel	6.20	mg/kg	0.20	6020	05/03/12 14:13	PER	7440-02-0	
Selenium	0.26	mg/kg	0.20	6020	05/03/12 14:13	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/03/12 14:13	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/03/12 14:13	PER	7440-28-0	
Vanadium	3.28	mg/kg	0.20	6020	05/03/12 14:13	PER	7440-62-2	
Zinc	10.2	mg/kg	1.0	6020	05/03/12 14:13	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/01/12 14:27	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/01/12 14:27	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/01/12 14:27	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/01/12 14:27	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/01/12 14:27	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/01/12 14:27	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/01/12 14:27	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.04 (continued)

Sample Tag: VAP-A5.2-NU137_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/02/12 18:32	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/02/12 18:32	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/02/12 18:32	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/02/12 18:32	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/02/12 18:32	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.04 (continued)

Sample Tag: VAP-A5.2-NU137_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/02/12 18:32	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 18:32	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.05
Sample Tag: VAP-A5.2-NU137_20-21
Collected Date/Time: 04/30/2012 14:25
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	04/30/12 22:59	EMR		
Extraction, PCB	Completed			3550B	05/01/12 12:11	CCM		
Mercury Digestion	Completed			7471A	05/03/12 11:30	JRH		
Metal Digestion	Completed			3050B	05/07/12 10:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/01/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/03/12 14:15	PER	7440-36-0	
Arsenic	2.53	mg/kg	0.10	6020	05/03/12 14:15	PER	7440-38-2	
Barium	19.3	mg/kg	1.0	6020	05/03/12 14:15	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/03/12 14:15	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/03/12 14:15	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/03/12 14:15	PER	7440-43-9	
Chromium	2.29	mg/kg	0.20	6020	05/03/12 14:15	PER	7440-47-3	
Cobalt	1.92	mg/kg	0.20	6020	05/03/12 14:15	PER	7440-48-4	
Copper	6.20	mg/kg	0.20	6020	05/03/12 14:15	PER	7440-50-8	
Lead	3.30	mg/kg	0.20	6020	05/03/12 14:15	PER	7439-92-1	
Manganese	214	mg/kg	0.20	6020	05/03/12 14:15	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0055	7471A	05/03/12 15:38	JRT	7439-97-6	
Nickel	5.47	mg/kg	0.20	6020	05/03/12 14:15	PER	7440-02-0	
Selenium	0.22	mg/kg	0.20	6020	05/03/12 14:15	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/03/12 14:15	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/03/12 14:15	PER	7440-28-0	
Vanadium	2.65	mg/kg	0.20	6020	05/03/12 14:15	PER	7440-62-2	
Zinc	9.70	mg/kg	1.0	6020	05/03/12 14:15	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/01/12 14:37	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/01/12 14:37	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/01/12 14:37	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/01/12 14:37	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/01/12 14:37	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/01/12 14:37	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/01/12 14:37	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.05 (continued)

Sample Tag: VAP-A5.2-NU137_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/02/12 19:06	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/02/12 19:06	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/02/12 19:06	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/02/12 19:06	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/02/12 19:06	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.05 (continued)

Sample Tag: VAP-A5.2-NU137_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/02/12 19:06	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 19:06	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.06
Sample Tag: VAP-A5.2-NU137_23-24
Collected Date/Time: 04/30/2012 15:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	04/30/12 22:59	EMR		
Extraction, PCB	Completed			3550B	05/01/12 12:11	CCM		
Mercury Digestion	Completed			7471A	05/03/12 11:30	JRH		
Metal Digestion	Completed			3050B	05/07/12 10:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/01/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/03/12 14:18	PER	7440-36-0	
Arsenic	2.21	mg/kg	0.10	6020	05/03/12 14:18	PER	7440-38-2	
Barium	22.1	mg/kg	1.0	6020	05/03/12 14:18	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/03/12 14:18	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/03/12 14:18	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/03/12 14:18	PER	7440-43-9	
Chromium	2.42	mg/kg	0.21	6020	05/03/12 14:18	PER	7440-47-3	
Cobalt	2.21	mg/kg	0.21	6020	05/03/12 14:18	PER	7440-48-4	
Copper	7.19	mg/kg	0.21	6020	05/03/12 14:18	PER	7440-50-8	
Lead	3.47	mg/kg	0.21	6020	05/03/12 14:18	PER	7439-92-1	
Manganese	218	mg/kg	0.21	6020	05/03/12 14:18	PER	7439-96-5	
Mercury	0.0075	mg/kg	0.0055	7471A	05/03/12 15:40	JRT	7439-97-6	
Nickel	5.76	mg/kg	0.21	6020	05/03/12 14:18	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/03/12 14:18	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/03/12 14:18	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/03/12 14:18	PER	7440-28-0	
Vanadium	2.98	mg/kg	0.21	6020	05/03/12 14:18	PER	7440-62-2	
Zinc	9.82	mg/kg	1.0	6020	05/03/12 14:18	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/01/12 14:48	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/01/12 14:48	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/01/12 14:48	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/01/12 14:48	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/01/12 14:48	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/01/12 14:48	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/01/12 14:48	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.06 (continued)

Sample Tag: VAP-A5.2-NU137_23-24

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/02/12 19:40	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/02/12 19:40	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/02/12 19:40	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/02/12 19:40	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/02/12 19:40	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.06 (continued)

Sample Tag: VAP-A5.2-NU137_23-24

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/02/12 19:40	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 19:40	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.07

Sample Tag: SB-A5.2-NU132_1-2

Collected Date/Time: 04/30/2012 12:42

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	04/30/12 22:59	EMR		
Extraction, PCB	Completed			3550B	05/01/12 12:11	CCM		
Mercury Digestion	Completed			7471A	05/03/12 11:30	JRH		
Metal Digestion	Completed			3050B	05/07/12 10:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/01/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/03/12 15:54	PER	7440-36-0	
Arsenic	0.49	mg/kg	0.10	6020	05/03/12 15:54	PER	7440-38-2	
Barium	7.81	mg/kg	1.0	6020	05/03/12 15:54	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/03/12 15:54	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	05/03/12 15:54	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/03/12 15:54	PER	7440-43-9	
Chromium	1.30	mg/kg	0.21	6020	05/03/12 15:54	PER	7440-47-3	
Cobalt	2.82	mg/kg	0.21	6020	05/03/12 15:54	PER	7440-48-4	
Copper	1.65	mg/kg	0.21	6020	05/03/12 15:54	PER	7440-50-8	
Lead	1.67	mg/kg	0.21	6020	05/03/12 15:54	PER	7439-92-1	
Manganese	214	mg/kg	0.21	6020	05/03/12 15:54	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0057	7471A	05/03/12 15:43	JRT	7439-97-6	
Nickel	4.01	mg/kg	0.21	6020	05/03/12 15:54	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/03/12 15:54	PER	7782-49-2	
Silver	0.10	mg/kg	0.10	6020	05/03/12 15:54	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/03/12 15:54	PER	7440-28-0	
Vanadium	1.32	mg/kg	0.21	6020	05/03/12 15:54	PER	7440-62-2	
Zinc	2.19	mg/kg	1.0	6020	05/03/12 15:54	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/01/12 14:58	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/01/12 14:58	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/01/12 14:58	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/01/12 14:58	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/01/12 14:58	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/01/12 14:58	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/01/12 14:58	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.07 (continued)

Sample Tag: SB-A5.2-NU132_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/02/12 20:13	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/02/12 20:13	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/02/12 20:13	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/02/12 20:13	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/02/12 20:13	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.07 (continued)

Sample Tag: SB-A5.2-NU132_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/02/12 20:13	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 20:13	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.08
Sample Tag: SB-A5.2-NU132_2-3
Collected Date/Time: 04/30/2012 12:52
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	04/30/12 22:59	EMR		
Extraction, PCB	Completed			3550B	05/01/12 12:11	CCM		
Mercury Digestion	Completed			7471A	05/03/12 11:30	JRH		
Metal Digestion	Completed			3050B	05/07/12 10:00	PER		

Inorganics

Total Solids	82	%	1	Std M 2540 B	05/01/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/03/12 15:56	PER	7440-36-0	
Arsenic	0.55	mg/kg	0.10	6020	05/03/12 15:56	PER	7440-38-2	
Barium	7.79	mg/kg	1.0	6020	05/03/12 15:56	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/03/12 15:56	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	05/03/12 15:56	PER	7440-42-8	
Cadmium	0.13	mg/kg	0.10	6020	05/03/12 15:56	PER	7440-43-9	
Chromium	3.56	mg/kg	0.21	6020	05/03/12 15:56	PER	7440-47-3	
Cobalt	1.39	mg/kg	0.21	6020	05/03/12 15:56	PER	7440-48-4	
Copper	12.2	mg/kg	0.21	6020	05/03/12 15:56	PER	7440-50-8	
Lead	10.0	mg/kg	0.21	6020	05/03/12 15:56	PER	7439-92-1	
Manganese	145	mg/kg	0.21	6020	05/03/12 15:56	PER	7439-96-5	
Mercury	0.0160	mg/kg	0.0061	7471A	05/03/12 15:45	JRT	7439-97-6	
Nickel	7.56	mg/kg	0.21	6020	05/03/12 15:56	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/03/12 15:56	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/03/12 15:56	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/03/12 15:56	PER	7440-28-0	
Vanadium	2.14	mg/kg	0.21	6020	05/03/12 15:56	PER	7440-62-2	
Zinc	19.7	mg/kg	1.0	6020	05/03/12 15:56	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	30	8082A	05/01/12 13:14	JANB	12674-11-2	Y
PCB-1242	300	ug/kg	30	8082A	05/01/12 13:14	JANB	53469-21-9	YQ
PCB-1221	Not detected	ug/kg	30	8082A	05/01/12 13:14	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	30	8082A	05/01/12 13:14	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	30	8082A	05/01/12 13:14	JANB	12672-29-6	Y
PCB-1254	Not detected	ug/kg	30	8082A	05/01/12 13:14	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	30	8082A	05/01/12 13:14	JANB	11096-82-5	Y

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	83-32-9	
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Y-Elevated reporting limit due to high target concentration

Q-Reported result represents most abundant aroclor



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.08 (continued)

Sample Tag: SB-A5.2-NU132_2-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acenaphthylene	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/02/12 20:47	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	100-52-7	
Benzo(a)anthracene	130	ug/kg	40	8270C	05/02/12 20:47	PL	56-55-3	
Benzo(a)pyrene	120	ug/kg	40	8270C	05/02/12 20:47	PL	50-32-8	
Benzo(b)fluoranthene	260	ug/kg	40	8270C	05/02/12 20:47	PL	205-99-2	p
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	191-24-2	
Benzo(k)fluoranthene	270	ug/kg	40	8270C	05/02/12 20:47	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	108-60-1	
Chrysene	150	ug/kg	40	8270C	05/02/12 20:47	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/02/12 20:47	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/02/12 20:47	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	3,080	ug/kg	80	8270C	05/02/12 20:47	PL	117-81-7	
Fluoranthene	270	ug/kg	40	8270C	05/02/12 20:47	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/02/12 20:47	PL	3/4-Cresol	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.08 (continued)

Sample Tag: SB-A5.2-NU132_2-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/02/12 20:47	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	108-95-2	
Pyrene	270	ug/kg	40	8270C	05/02/12 20:47	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 20:47	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.09

Sample Tag: SB-A5.2-NV133_1-2

Collected Date/Time: 04/30/2012 13:45

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	04/30/12 22:59	EMR		
Extraction, PCB	Completed			3550B	05/01/12 12:11	CCM		
Mercury Digestion	Completed			7471A	05/03/12 11:30	JRH		
Metal Digestion	Completed			3050B	05/07/12 10:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/01/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/03/12 15:59	PER	7440-36-0	
Arsenic	0.52	mg/kg	0.10	6020	05/03/12 15:59	PER	7440-38-2	
Barium	32.3	mg/kg	1.0	6020	05/03/12 15:59	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/03/12 15:59	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/03/12 15:59	PER	7440-42-8	
Cadmium	0.13	mg/kg	0.10	6020	05/03/12 15:59	PER	7440-43-9	
Chromium	2.42	mg/kg	0.20	6020	05/03/12 15:59	PER	7440-47-3	
Cobalt	1.25	mg/kg	0.20	6020	05/03/12 15:59	PER	7440-48-4	
Copper	8.36	mg/kg	0.20	6020	05/03/12 15:59	PER	7440-50-8	
Lead	17.5	mg/kg	0.20	6020	05/03/12 15:59	PER	7439-92-1	
Manganese	163	mg/kg	0.20	6020	05/03/12 15:59	PER	7439-96-5	
Mercury	0.0197	mg/kg	0.0056	7471A	05/03/12 15:47	JRT	7439-97-6	
Nickel	2.82	mg/kg	0.20	6020	05/03/12 15:59	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/03/12 15:59	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/03/12 15:59	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/03/12 15:59	PER	7440-28-0	
Vanadium	5.46	mg/kg	0.20	6020	05/03/12 15:59	PER	7440-62-2	
Zinc	17.7	mg/kg	1.0	6020	05/03/12 15:59	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/01/12 13:49	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/01/12 13:49	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/01/12 13:49	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/01/12 13:49	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/01/12 13:49	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/01/12 13:49	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/01/12 13:49	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.09 (continued)

Sample Tag: SB-A5.2-NV133_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/02/12 21:21	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/02/12 21:21	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/02/12 21:21	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/02/12 21:21	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/02/12 21:21	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.09 (continued)

Sample Tag: SB-A5.2-NV133_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/02/12 21:21	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 21:21	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.10
Sample Tag: SB-A5.2-NV133_4-5
Collected Date/Time: 04/30/2012 13:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	04/30/12 22:59	EMR		
Extraction, PCB	Completed			3550B	05/01/12 12:11	CCM		
Mercury Digestion	Completed			7471A	05/03/12 11:30	JRH		
Metal Digestion	Completed			3050B	05/07/12 10:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/01/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/03/12 16:01	PER	7440-36-0	
Arsenic	0.40	mg/kg	0.10	6020	05/03/12 16:01	PER	7440-38-2	
Barium	30.1	mg/kg	1.0	6020	05/03/12 16:01	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/03/12 16:01	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	05/03/12 16:01	PER	7440-42-8	
Cadmium	0.14	mg/kg	0.10	6020	05/03/12 16:01	PER	7440-43-9	
Chromium	2.62	mg/kg	0.21	6020	05/03/12 16:01	PER	7440-47-3	
Cobalt	1.56	mg/kg	0.21	6020	05/03/12 16:01	PER	7440-48-4	
Copper	10.6	mg/kg	0.21	6020	05/03/12 16:01	PER	7440-50-8	
Lead	19.5	mg/kg	0.21	6020	05/03/12 16:01	PER	7439-92-1	
Manganese	227	mg/kg	0.21	6020	05/03/12 16:01	PER	7439-96-5	
Mercury	0.0191	mg/kg	0.0057	7471A	05/03/12 15:49	JRT	7439-97-6	
Nickel	3.83	mg/kg	0.21	6020	05/03/12 16:01	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/03/12 16:01	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/03/12 16:01	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/03/12 16:01	PER	7440-28-0	
Vanadium	3.71	mg/kg	0.21	6020	05/03/12 16:01	PER	7440-62-2	
Zinc	16.3	mg/kg	1.0	6020	05/03/12 16:01	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/03/12 15:37	JANB	12674-11-2	
PCB-1242	40	ug/kg	3	8082A	05/03/12 15:37	JANB	53469-21-9	Q
PCB-1221	Not detected	ug/kg	3	8082A	05/03/12 15:37	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/03/12 15:37	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/03/12 15:37	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/03/12 15:37	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/03/12 15:37	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	208-96-8	

Q-Reported result represents most abundant aroclor



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.10 (continued)

Sample Tag: SB-A5.2-NV133_4-5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	98-86-2	
Anthracene	500	ug/kg	200	8270C	05/02/12 23:36	PL	120-12-7	
Atrazine	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	300	8270C	05/02/12 23:36	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	105-60-2	
Carbazole	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	108-60-1	
Chrysene	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	8270C	05/02/12 23:36	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	300	8270C	05/02/12 23:36	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	300	8270C	05/02/12 23:36	PL	117-81-7	
Fluoranthene	400	ug/kg	200	8270C	05/02/12 23:36	PL	206-44-0	
Fluorene	3,900	ug/kg	200	8270C	05/02/12 23:36	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	193-39-5	
Isophorone	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	78-59-1	
2-Methylnaphthalene	200	ug/kg	200	8270C	05/02/12 23:36	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	300	8270C	05/02/12 23:36	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	88-75-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.10 (continued)

Sample Tag: SB-A5.2-NV133_4-5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	621-64-7	
N-Nitrosodiphenylamine	800	ug/kg	200	8270C	05/02/12 23:36	PL	86-30-6	
Naphthalene	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	300	8270C	05/02/12 23:36	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	87-86-5	
Phenanthrene	3,700	ug/kg	200	8270C	05/02/12 23:36	PL	85-01-8	
Phenol	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	108-95-2	
Pyrene	400	ug/kg	200	8270C	05/02/12 23:36	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	200	8270C	05/02/12 23:36	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.11

Sample Tag: SB-A5.2-NV133_9-10

Collected Date/Time: 04/30/2012 14:06

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	04/30/12 22:59	EMR		
Extraction, PCB	Completed			3550B	05/01/12 12:11	CCM		
Mercury Digestion	Completed			7471A	05/03/12 11:30	JRH		
Metal Digestion	Completed			3050B	05/07/12 10:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/01/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/03/12 16:03	PER	7440-36-0	
Arsenic	0.99	mg/kg	0.10	6020	05/03/12 16:03	PER	7440-38-2	
Barium	20.0	mg/kg	1.0	6020	05/03/12 16:03	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/03/12 16:03	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/03/12 16:03	PER	7440-42-8	
Cadmium	0.10	mg/kg	0.10	6020	05/03/12 16:03	PER	7440-43-9	
Chromium	4.16	mg/kg	0.20	6020	05/03/12 16:03	PER	7440-47-3	
Cobalt	4.35	mg/kg	0.20	6020	05/03/12 16:03	PER	7440-48-4	
Copper	11.1	mg/kg	0.20	6020	05/03/12 16:03	PER	7440-50-8	
Lead	4.52	mg/kg	0.20	6020	05/03/12 16:03	PER	7439-92-1	
Manganese	271	mg/kg	0.20	6020	05/03/12 16:03	PER	7439-96-5	
Mercury	0.0097	mg/kg	0.0056	7471A	05/03/12 16:06	JRT	7439-97-6	
Nickel	11.3	mg/kg	0.20	6020	05/03/12 16:03	PER	7440-02-0	
Selenium	0.44	mg/kg	0.20	6020	05/03/12 16:03	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/03/12 16:03	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/03/12 16:03	PER	7440-28-0	
Vanadium	5.14	mg/kg	0.20	6020	05/03/12 16:03	PER	7440-62-2	
Zinc	13.6	mg/kg	1.0	6020	05/03/12 16:03	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/01/12 15:09	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/01/12 15:09	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/01/12 15:09	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/01/12 15:09	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/01/12 15:09	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/01/12 15:09	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/01/12 15:09	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.11 (continued)

Sample Tag: SB-A5.2-NV133_9-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/02/12 21:55	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/02/12 21:55	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/02/12 21:55	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/02/12 21:55	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/02/12 21:55	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.11 (continued)

Sample Tag: SB-A5.2-NV133_9-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/02/12 21:55	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 21:55	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.12

Sample Tag: SB-A5.2-NV133_6-7

Collected Date/Time: 04/30/2012 14:20

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	04/30/12 22:59	EMR		
Extraction, PCB	Completed			3550B	05/01/12 12:11	CCM		
Mercury Digestion	Completed			7471A	05/03/12 11:30	JRH		
Metal Digestion	Completed			3050B	05/07/12 10:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/01/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.22	6020	05/03/12 16:06	PER	7440-36-0	
Arsenic	0.57	mg/kg	0.11	6020	05/03/12 16:06	PER	7440-38-2	
Barium	44.1	mg/kg	1.1	6020	05/03/12 16:06	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.22	6020	05/03/12 16:06	PER	7440-41-7	
Boron	Not detected	mg/kg	4.4	6020	05/03/12 16:06	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.11	6020	05/03/12 16:06	PER	7440-43-9	
Chromium	3.40	mg/kg	0.22	6020	05/03/12 16:06	PER	7440-47-3	
Cobalt	2.22	mg/kg	0.22	6020	05/03/12 16:06	PER	7440-48-4	
Copper	9.73	mg/kg	0.22	6020	05/03/12 16:06	PER	7440-50-8	
Lead	14.6	mg/kg	0.22	6020	05/03/12 16:06	PER	7439-92-1	
Manganese	303	mg/kg	0.22	6020	05/03/12 16:06	PER	7439-96-5	
Mercury	0.0155	mg/kg	0.0057	7471A	05/03/12 16:08	JRT	7439-97-6	
Nickel	5.51	mg/kg	0.22	6020	05/03/12 16:06	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.22	6020	05/03/12 16:06	PER	7782-49-2	
Silver	Not detected	mg/kg	0.11	6020	05/03/12 16:06	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.22	6020	05/03/12 16:06	PER	7440-28-0	
Vanadium	4.56	mg/kg	0.22	6020	05/03/12 16:06	PER	7440-62-2	
Zinc	16.4	mg/kg	1.1	6020	05/03/12 16:06	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	10	8082A	05/01/12 15:20	JANB	12674-11-2	X
PCB-1242	Not detected	ug/kg	10	8082A	05/01/12 15:20	JANB	53469-21-9	X
PCB-1221	Not detected	ug/kg	10	8082A	05/01/12 15:20	JANB	11104-28-2	X
PCB-1232	Not detected	ug/kg	10	8082A	05/01/12 15:20	JANB	11141-16-5	X
PCB-1248	Not detected	ug/kg	10	8082A	05/01/12 15:20	JANB	12672-29-6	X
PCB-1254	10	ug/kg	10	8082A	05/01/12 15:20	JANB	11097-69-1	X
PCB-1260	Not detected	ug/kg	10	8082A	05/01/12 15:20	JANB	11096-82-5	X

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	208-96-8	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.12 (continued)

Sample Tag: SB-A5.2-NV133_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	98-86-2	
Anthracene	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	8270C	05/02/12 23:02	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	105-60-2	
Carbazole	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	108-60-1	
Chrysene	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	8270C	05/02/12 23:02	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	8270C	05/02/12 23:02	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	8270C	05/02/12 23:02	PL	117-81-7	
Fluoranthene	100	ug/kg	100	8270C	05/02/12 23:02	PL	206-44-0	
Fluorene	400	ug/kg	100	8270C	05/02/12 23:02	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	8270C	05/02/12 23:02	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	88-75-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.12 (continued)

Sample Tag: SB-A5.2-NV133_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	86-30-6	
Naphthalene	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	8270C	05/02/12 23:02	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	85-01-8	
Phenol	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	108-95-2	
Pyrene	100	ug/kg	100	8270C	05/02/12 23:02	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	100	8270C	05/02/12 23:02	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.13
Sample Tag: SB-A5.2-NV133_12-13.7
Collected Date/Time: 04/30/2012 15:35
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	5.5	IR
2	40ml Glass	HCL	Yes	5.5	IR
1	125ml Plastic	HNO3	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/02/12 22:23	EMR		
Mercury Digestion	Completed			7471A	05/01/12 12:05	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony	Not detected	mg/L	0.002	6020	05/10/12 14:12	SLS	7440-36-0	
Arsenic	0.017	mg/L	0.002	6020	05/10/12 14:12	SLS	7440-38-2	
Barium	0.633	mg/L	0.010	6020	05/10/12 14:12	SLS	7440-39-3	
Beryllium	0.003	mg/L	0.001	6020	05/10/12 14:12	SLS	7440-41-7	
Boron	0.27	mg/L	0.04	6020	05/10/12 14:12	SLS	7440-42-8	
Cadmium	Not detected	mg/L	0.001	6020	05/10/12 14:12	SLS	7440-43-9	
Chromium	0.046	mg/L	0.010	6020	05/10/12 14:12	SLS	7440-47-3	
Cobalt	0.032	mg/L	0.010	6020	05/10/12 14:12	SLS	7440-48-4	
Copper	0.166	mg/L	0.002	6020	05/10/12 14:12	SLS	7440-50-8	
Lead	0.041	mg/L	0.002	6020	05/10/12 14:12	SLS	7439-92-1	
Manganese	2.67	mg/L	0.010	6020	05/10/12 14:12	SLS	7439-96-5	
Mercury	Not detected	mg/L	0.0001	7471A	05/01/12 14:49	JRT	7439-97-6	
Nickel	0.086	mg/L	0.010	6020	05/10/12 14:12	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.002	6020	05/10/12 14:12	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0002	6020	05/10/12 14:12	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	6020	05/10/12 14:12	SLS	7440-28-0	
Vanadium	0.080	mg/L	0.002	6020	05/10/12 14:12	SLS	7440-62-2	
Zinc	0.162	mg/L	0.010	6020	05/10/12 14:12	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.06	8270C	05/08/12 13:38	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.06	8270C	05/08/12 13:38	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	205-99-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.13 (continued)

Sample Tag: SB-A5.2-NV133_12-13.7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	120-83-2	
2,4-Dimethylphenol	58	ug/L	1	8270C	05/04/12 18:12	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	534-52-1	
3,3'-Dichlorobenzidine	Not detected	ug/L	2	8270C	05/04/12 18:12	PL	91-94-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	8270C	05/04/12 18:12	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	77-47-4	
Hexachlorobenzene	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	118-74-1	
Hexachloroethane	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	91-57-6	
2-Methylphenol	3	ug/L	1	8270C	05/04/12 18:12	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	85-01-8	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.13 (continued)

Sample Tag: SB-A5.2-NV133_12-13.7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Phenol	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/04/12 18:12	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.14

Sample Tag: SB-A5.2-NV133_12-13

Collected Date/Time: 04/30/2012 15:50

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	04/30/12 22:59	EMR		
Extraction, PCB	Completed			3550B	05/01/12 12:11	CCM		
Mercury Digestion	Completed			7471A	05/03/12 11:30	JRH		
Metal Digestion	Completed			3050B	05/07/12 10:00	PER		

Inorganics

Total Solids	85	%	1	Std M 2540 B	05/01/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.22	6020	05/03/12 16:08	PER	7440-36-0	
Arsenic	0.40	mg/kg	0.11	6020	05/03/12 16:08	PER	7440-38-2	
Barium	17.2	mg/kg	1.1	6020	05/03/12 16:08	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.22	6020	05/03/12 16:08	PER	7440-41-7	
Boron	Not detected	mg/kg	4.4	6020	05/03/12 16:08	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.11	6020	05/03/12 16:08	PER	7440-43-9	
Chromium	2.22	mg/kg	0.22	6020	05/03/12 16:08	PER	7440-47-3	
Cobalt	1.22	mg/kg	0.22	6020	05/03/12 16:08	PER	7440-48-4	
Copper	5.46	mg/kg	0.22	6020	05/03/12 16:08	PER	7440-50-8	
Lead	2.39	mg/kg	0.22	6020	05/03/12 16:08	PER	7439-92-1	
Manganese	189	mg/kg	0.22	6020	05/03/12 16:08	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0056	7471A	05/03/12 16:10	JRT	7439-97-6	
Nickel	5.56	mg/kg	0.22	6020	05/03/12 16:08	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.22	6020	05/03/12 16:08	PER	7782-49-2	
Silver	Not detected	mg/kg	0.11	6020	05/03/12 16:08	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.22	6020	05/03/12 16:08	PER	7440-28-0	
Vanadium	2.92	mg/kg	0.22	6020	05/03/12 16:08	PER	7440-62-2	
Zinc	5.91	mg/kg	1.1	6020	05/03/12 16:08	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/01/12 15:30	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/01/12 15:30	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/01/12 15:30	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/01/12 15:30	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/01/12 15:30	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/01/12 15:30	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/01/12 15:30	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.14 (continued)

Sample Tag: SB-A5.2-NV133_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/02/12 22:29	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	120-83-2	
2,4-Dimethylphenol	70	ug/kg	40	8270C	05/02/12 22:29	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/02/12 22:29	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/02/12 22:29	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/02/12 22:29	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/02/12 22:29	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52344.14 (continued)

Sample Tag: SB-A5.2-NV133_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/02/12 22:29	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/02/12 22:29	PL	88-06-2	

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Send Results to:	Contact & Company Name: Randy Christensen / ARCADIS		Telephone: 810-225-1940		Preservative: -1/10/12													
	Address: 10559 Citation Drive STE. 100		Fax: 810-229-8837		Filtered (✓): -1/1/12													
	City: Brighton MI 48114		E-mail Address: randy.chrstensen@arcadis-us		# of Containers:													
	Project Name/Location (City, State): River-Lansing, MI		Project #: B0064479.2012.D0105		Container Information:													
Sampler's Printed Name:		Sampler's Signature:		PARAMETER ANALYSIS & METHOD														
				TAL Metals SVOCs (TL) PCBS 1,4 Dioxane (HOLD)														
				Matrix Key: SO - Soil SE - Sediment NL - NAPL/Oil W - Water SL - Sludge SW - Sample Wipe T - Tissue A - Air Other: Container Information Key: 1. 40 ml Vial 2. 1 L Amber 3. 250 ml Plastic 4. 500 ml Plastic 5. Encore 6. 2 oz. Glass 7. 4 oz. Glass 8. 8 oz. Glass 9. Other: 10. Other:														
				REMARKS														
				Sample ID Date Time Comp Grab Matrix Collection Date Time Comp Grab Matrix Type (✓) Comp Grab Matrix														
				52344.01 VAP-A5.2-NUI37-0-2 4/30/12 1230 ✓ SO VAP-A5.2-NUI37-5-6 4/30/12 1330 ✓ SO VAP-A5.2-NUI37-10-14 4/30/12 1410 ✓ SO VAP-A5.2-NUI37-15-16 4/30/12 1420 ✓ SO VAP-A5.2-NUI37-20-21 4/30/12 1425 ✓ SO VAP-A5.2-NUI37-23-24 4/30/12 1530 ✓ SO VAP-A5.2-NUI37-24-26 4/30/12 1600 ✓ BW SB-A5.2-NUI32-1-2 4/30/12 1242 ✓ SO SB-A5.2-NUI32-2-3 4/30/12 1252 ✓ SO SB-A5.2-NUI33-1-2 4/30/12 1345 ✓ SO SB-A5.2-NUI33-4-5 4/30/12 1350 ✓ SO SB-A5.2-NUI33-9-10 4/30/12 1406 ✓ SO SB-A5.2-NUI33-6-7 4/30/12 1420 ✓ SO SB-A5.2-NUI33-12-13 4/30/12 1535 ✓ GN														
				Special Instructions/Comments: Lab filter for SVOCs on SB-A5.2-NUI33-12-13 MAH ☐ Special QA/QC Instructions(✓):														
				Laboratory Information and Receipt Lab Name: Merit Cooler Custody Seal (✓) ☐ Cooler packed with ice (✓) Specify Turnaround Requirements: Shipping Tracking #: Relinquished By Printed Name: Austin We... Signature: [Signature] Firm: ARCADIS Date/Time: 4/30/12 1615 Received By Printed Name: Tim Glass Signature: [Signature] Firm/Courier: Merit Date/Time: 4-30-12 1615 Relinquished By Printed Name: Andrew Ball Signature: [Signature] Firm: MERIT Date/Time: 30 APR 12 1615 Laboratory Received By Printed Name: Andrew Ball Signature: [Signature] Firm: MERIT Date/Time: 30 APR 12 1615														

ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 2 of 2

Lab Work Order #

[illegible]



Analytical Laboratory Report

Revised Report

Report ID: S52359.01(03)

Generated on 05/21/2012

Replaces report S52359.01(02) generated on 05/15/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52359.01-S52359.26

Project: B0064479.2012.00105

Collected Date: 04/30/2012 - 05/01/2012

Submitted Date/Time: 05/01/2012 15:35

Sampled by: Austin Westheris

P.O. #: PO125047

PCB reporting limit lowered

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Revised Report

Sample Summary (26 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52359.01	SB-A5.2-NV133_18-19	Soil	04/30/2012 16:21
S52359.02	SB-A5.2-NV133_23-24	Soil	04/30/2012 16:46
S52359.03	SB-A5.2-NV133_28-29	Soil	04/30/2012 17:05
S52359.04	VAP-A5.2-NU137_29-30	Soil	04/30/2012 17:20
S52359.05	VAP-A5.2-NU137_34-35	Soil	05/01/2012 09:15
S52359.06	VAP-A5.2-NU137_39-40	Soil	05/01/2012 09:35
S52359.07	VAP-A5.2-NU137_44-45	Soil	05/01/2012 09:40
S52359.08	VAP-A5.2-NU137_48-49	Soil	05/01/2012 10:20
S52359.09	VAP-A5.2-NU137_54-55	Soil	05/01/2012 11:00
S52359.10	VAP-A5.2-NU137_57-58	Soil	05/01/2012 11:15
S52359.11	VAP-A5.2-NU137_24-26	Groundwater	04/30/2012 16:00
S52359.12	VAP-A5.2-NU137_16-18	Groundwater	05/01/2012 13:00
S52359.13	Trip Blank	Liquid	04/30/2012 00:01
S52359.14	SB-A5.2-NZ138_1-2	Soil	05/01/2012 08:55
S52359.15	SB-A5.2-NZ128_1-2	Soil	05/01/2012 09:50
S52359.16	SB-A5.2-NZ128_4-5	Soil	05/01/2012 09:55
S52359.17	SB-A5.2-NZ128_6.5-7.5	Soil	05/01/2012 10:15
S52359.18	SB-A5.2-NZ128_11-12	Soil	05/01/2012 10:40
S52359.19	SB-A5.2-NZ128_16-17	Soil	05/01/2012 11:55
S52359.20	SB-A5.2-NZ128_20-21	Soil	05/01/2012 12:07
S52359.21	SB-A5.2-NZ128_25-26	Soil	05/01/2012 12:20
S52359.22	SB-A5.2-NW124_1-2	Soil	05/01/2012 13:20
S52359.23	SB-A5.2-NW124_4-5	Soil	05/01/2012 13:40
S52359.24	SB-A5.2-NW124_7-8	Soil	05/01/2012 13:52
S52359.25	SB-A5.2-DUP01	Soil	05/01/2012 00:01
S52359.26	SB-A5.2-NW124_11-12	Soil	05/01/2012 14:12



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.01

Sample Tag: SB-A5.2-NV133_18-19

Collected Date/Time: 04/30/2012 16:21

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/01/12 22:23	EMR		
Extraction, PCB	Completed			3550B	05/04/12 10:00	CCM		1
Mercury Digestion	Completed			7471A	05/03/12 11:30	JRH		
Metal Digestion	Completed			3050B	05/07/12 10:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	05/01/12 16:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/03/12 16:26	PER	7440-36-0	
Arsenic	0.99	mg/kg	0.10	6020	05/03/12 16:26	PER	7440-38-2	
Barium	18.4	mg/kg	1.0	6020	05/03/12 16:26	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/03/12 16:26	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/03/12 16:26	PER	7440-42-8	
Cadmium	0.32	mg/kg	0.10	6020	05/03/12 16:26	PER	7440-43-9	
Chromium	1.90	mg/kg	0.20	6020	05/03/12 16:26	PER	7440-47-3	
Cobalt	1.62	mg/kg	0.20	6020	05/03/12 16:26	PER	7440-48-4	
Copper	8.95	mg/kg	0.20	6020	05/03/12 16:26	PER	7440-50-8	
Lead	3.00	mg/kg	0.20	6020	05/03/12 16:26	PER	7439-92-1	
Manganese	308	mg/kg	0.20	6020	05/03/12 16:26	PER	7439-96-5	
Mercury	0.0056	mg/kg	0.0054	7471A	05/03/12 16:13	JRT	7439-97-6	
Nickel	5.87	mg/kg	0.20	6020	05/03/12 16:26	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/03/12 16:26	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/03/12 16:26	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/03/12 16:26	PER	7440-28-0	
Vanadium	2.78	mg/kg	0.20	6020	05/03/12 16:26	PER	7440-62-2	
Zinc	34.4	mg/kg	1.0	6020	05/03/12 16:26	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	5	8082A	05/04/12 16:12	JANB	12674-11-2	X
PCB-1242	Not detected	ug/kg	5	8082A	05/04/12 16:12	JANB	53469-21-9	X
PCB-1221	Not detected	ug/kg	5	8082A	05/04/12 16:12	JANB	11104-28-2	X
PCB-1232	Not detected	ug/kg	5	8082A	05/04/12 16:12	JANB	11141-16-5	X
PCB-1248	Not detected	ug/kg	5	8082A	05/04/12 16:12	JANB	12672-29-6	X
PCB-1254	Not detected	ug/kg	5	8082A	05/04/12 16:12	JANB	11097-69-1	X
PCB-1260	Not detected	ug/kg	5	8082A	05/04/12 16:12	JANB	11096-82-5	X

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	83-32-9	
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1-Limited sample submitted. Extraction obtained through solvent exchange procedure from SVOC extraction.

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.01 (continued)

Sample Tag: SB-A5.2-NV133_18-19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 14:21	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/03/12 14:21	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 14:21	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/03/12 14:21	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/03/12 14:21	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	88-74-4	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.01 (continued)

Sample Tag: SB-A5.2-NV133_18-19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 14:21	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 14:21	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.02
Sample Tag: SB-A5.2-NV133_23-24
Collected Date/Time: 04/30/2012 16:46
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/01/12 22:23	EMR		
Extraction, PCB	Completed			3550B	05/02/12 12:24	CCM		
Mercury Digestion	Completed			7471A	05/03/12 11:30	JRH		
Metal Digestion	Completed			3050B	05/07/12 10:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/01/12 16:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/03/12 16:28	PER	7440-36-0	
Arsenic	1.79	mg/kg	0.10	6020	05/03/12 16:28	PER	7440-38-2	
Barium	19.1	mg/kg	1.0	6020	05/03/12 16:28	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/03/12 16:28	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/03/12 16:28	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/03/12 16:28	PER	7440-43-9	
Chromium	2.75	mg/kg	0.21	6020	05/03/12 16:28	PER	7440-47-3	
Cobalt	2.24	mg/kg	0.21	6020	05/03/12 16:28	PER	7440-48-4	
Copper	6.26	mg/kg	0.21	6020	05/03/12 16:28	PER	7440-50-8	
Lead	2.45	mg/kg	0.21	6020	05/03/12 16:28	PER	7439-92-1	
Manganese	174	mg/kg	0.21	6020	05/03/12 16:28	PER	7439-96-5	
Mercury	0.0074	mg/kg	0.0056	7471A	05/03/12 16:15	JRT	7439-97-6	
Nickel	5.74	mg/kg	0.21	6020	05/03/12 16:28	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/03/12 16:28	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/03/12 16:28	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/03/12 16:28	PER	7440-28-0	
Vanadium	2.74	mg/kg	0.21	6020	05/03/12 16:28	PER	7440-62-2	
Zinc	11.6	mg/kg	1.0	6020	05/03/12 16:28	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/02/12 14:53	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/02/12 14:53	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/02/12 14:53	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/02/12 14:53	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/02/12 14:53	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/02/12 14:53	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/02/12 14:53	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.02 (continued)

Sample Tag: SB-A5.2-NV133_23-24

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 14:50	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/03/12 14:50	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 14:50	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/03/12 14:50	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/03/12 14:50	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.02 (continued)

Sample Tag: SB-A5.2-NV133_23-24

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 14:50	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 14:50	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.03

Sample Tag: SB-A5.2-NV133_28-29

Collected Date/Time: 04/30/2012 17:05

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/01/12 22:23	EMR		
Extraction, PCB	Completed			3550B	05/02/12 12:24	CCM		
Mercury Digestion	Completed			7471A	05/03/12 11:30	JRH		
Metal Digestion	Completed			3050B	05/07/12 10:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/01/12 16:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/03/12 17:07	PER	7440-36-0	
Arsenic	1.77	mg/kg	0.10	6020	05/03/12 17:07	PER	7440-38-2	
Barium	28.6	mg/kg	1.0	6020	05/03/12 17:07	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/03/12 17:07	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/03/12 17:07	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/03/12 17:07	PER	7440-43-9	
Chromium	3.19	mg/kg	0.21	6020	05/03/12 17:07	PER	7440-47-3	
Cobalt	2.53	mg/kg	0.21	6020	05/03/12 17:07	PER	7440-48-4	
Copper	8.52	mg/kg	0.21	6020	05/03/12 17:07	PER	7440-50-8	
Lead	3.69	mg/kg	0.21	6020	05/03/12 17:07	PER	7439-92-1	
Manganese	240	mg/kg	0.21	6020	05/03/12 17:07	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0058	7471A	05/03/12 16:17	JRT	7439-97-6	
Nickel	7.70	mg/kg	0.21	6020	05/03/12 17:07	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/03/12 17:07	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/03/12 17:07	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/03/12 17:07	PER	7440-28-0	
Vanadium	4.20	mg/kg	0.21	6020	05/03/12 17:07	PER	7440-62-2	
Zinc	9.78	mg/kg	1.0	6020	05/03/12 17:07	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/02/12 13:07	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/02/12 13:07	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/02/12 13:07	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/02/12 13:07	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/02/12 13:07	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/02/12 13:07	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/02/12 13:07	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.03 (continued)

Sample Tag: SB-A5.2-NV133_28-29

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 15:20	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/03/12 15:20	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 15:20	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/03/12 15:20	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/03/12 15:20	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.03 (continued)

Sample Tag: SB-A5.2-NV133_28-29

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 15:20	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 15:20	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.04
Sample Tag: VAP-A5.2-NU137_29-30
Collected Date/Time: 04/30/2012 17:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/01/12 22:23	EMR		
Extraction, PCB	Completed			3550B	05/02/12 12:24	CCM		
Mercury Digestion	Completed			7471A	05/03/12 11:30	JRH		
Metal Digestion	Completed			3050B	05/07/12 10:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/01/12 16:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/03/12 16:33	PER	7440-36-0	
Arsenic	3.27	mg/kg	0.10	6020	05/03/12 16:33	PER	7440-38-2	
Barium	20.3	mg/kg	1.0	6020	05/03/12 16:33	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/03/12 16:33	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/03/12 16:33	PER	7440-42-8	
Cadmium	0.12	mg/kg	0.10	6020	05/03/12 16:33	PER	7440-43-9	
Chromium	3.07	mg/kg	0.20	6020	05/03/12 16:33	PER	7440-47-3	
Cobalt	3.72	mg/kg	0.20	6020	05/03/12 16:33	PER	7440-48-4	
Copper	8.87	mg/kg	0.20	6020	05/03/12 16:33	PER	7440-50-8	
Lead	4.38	mg/kg	0.20	6020	05/03/12 16:33	PER	7439-92-1	
Manganese	313	mg/kg	0.20	6020	05/03/12 16:33	PER	7439-96-5	
Mercury	0.0084	mg/kg	0.0056	7471A	05/03/12 16:19	JRT	7439-97-6	
Nickel	11.2	mg/kg	0.20	6020	05/03/12 16:33	PER	7440-02-0	
Selenium	0.29	mg/kg	0.20	6020	05/03/12 16:33	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/03/12 16:33	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/03/12 16:33	PER	7440-28-0	
Vanadium	3.69	mg/kg	0.20	6020	05/03/12 16:33	PER	7440-62-2	
Zinc	16.7	mg/kg	1.0	6020	05/03/12 16:33	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/02/12 13:18	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/02/12 13:18	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/02/12 13:18	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/02/12 13:18	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/02/12 13:18	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/02/12 13:18	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/02/12 13:18	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.04 (continued)

Sample Tag: VAP-A5.2-NU137_29-30

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 15:50	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/03/12 15:50	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 15:50	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/03/12 15:50	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/03/12 15:50	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.04 (continued)

Sample Tag: VAP-A5.2-NU137_29-30

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 15:50	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 15:50	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.05
Sample Tag: VAP-A5.2-NU137_34-35
Collected Date/Time: 05/01/2012 09:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/01/12 22:23	EMR		
Extraction, PCB	Completed			3550B	05/02/12 12:24	CCM		
Mercury Digestion	Completed			7471A	05/03/12 11:30	JRH		
Metal Digestion	Completed			3050B	05/07/12 10:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/01/12 16:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/03/12 16:39	PER	7440-36-0	
Arsenic	3.12	mg/kg	0.10	6020	05/03/12 16:39	PER	7440-38-2	
Barium	27.8	mg/kg	1.0	6020	05/03/12 16:39	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/03/12 16:39	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/03/12 16:39	PER	7440-42-8	
Cadmium	0.14	mg/kg	0.10	6020	05/03/12 16:39	PER	7440-43-9	
Chromium	2.64	mg/kg	0.21	6020	05/03/12 16:39	PER	7440-47-3	
Cobalt	3.60	mg/kg	0.21	6020	05/03/12 16:39	PER	7440-48-4	
Copper	9.38	mg/kg	0.21	6020	05/03/12 16:39	PER	7440-50-8	
Lead	4.80	mg/kg	0.21	6020	05/03/12 16:39	PER	7439-92-1	
Manganese	293	mg/kg	0.21	6020	05/03/12 16:39	PER	7439-96-5	
Mercury	0.0084	mg/kg	0.0055	7471A	05/03/12 16:22	JRT	7439-97-6	
Nickel	10.3	mg/kg	0.21	6020	05/03/12 16:39	PER	7440-02-0	
Selenium	0.31	mg/kg	0.21	6020	05/03/12 16:39	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/03/12 16:39	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/03/12 16:39	PER	7440-28-0	
Vanadium	3.87	mg/kg	0.21	6020	05/03/12 16:39	PER	7440-62-2	
Zinc	17.8	mg/kg	1.0	6020	05/03/12 16:39	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/02/12 13:28	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/02/12 13:28	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/02/12 13:28	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/02/12 13:28	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/02/12 13:28	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/02/12 13:28	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/02/12 13:28	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.05 (continued)

Sample Tag: VAP-A5.2-NU137_34-35

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 16:20	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/03/12 16:20	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 16:20	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/03/12 16:20	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/03/12 16:20	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.05 (continued)

Sample Tag: VAP-A5.2-NU137_34-35

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 16:20	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 16:20	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.06

Sample Tag: VAP-A5.2-NU137_39-40

Collected Date/Time: 05/01/2012 09:35

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/01/12 22:23	EMR		
Extraction, PCB	Completed			3550B	05/02/12 12:24	CCM		
Mercury Digestion	Completed			7471A	05/03/12 11:30	JRH		
Metal Digestion	Completed			3050B	05/07/12 10:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/01/12 16:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/03/12 16:42	PER	7440-36-0	
Arsenic	2.94	mg/kg	0.10	6020	05/03/12 16:42	PER	7440-38-2	
Barium	36.1	mg/kg	1.0	6020	05/03/12 16:42	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/03/12 16:42	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/03/12 16:42	PER	7440-42-8	
Cadmium	0.15	mg/kg	0.10	6020	05/03/12 16:42	PER	7440-43-9	
Chromium	2.98	mg/kg	0.21	6020	05/03/12 16:42	PER	7440-47-3	
Cobalt	4.42	mg/kg	0.21	6020	05/03/12 16:42	PER	7440-48-4	
Copper	11.5	mg/kg	0.21	6020	05/03/12 16:42	PER	7440-50-8	
Lead	5.73	mg/kg	0.21	6020	05/03/12 16:42	PER	7439-92-1	
Manganese	306	mg/kg	0.21	6020	05/03/12 16:42	PER	7439-96-5	
Mercury	0.0118	mg/kg	0.0054	7471A	05/03/12 16:24	JRT	7439-97-6	
Nickel	12.3	mg/kg	0.21	6020	05/03/12 16:42	PER	7440-02-0	
Selenium	0.24	mg/kg	0.21	6020	05/03/12 16:42	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/03/12 16:42	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/03/12 16:42	PER	7440-28-0	
Vanadium	4.11	mg/kg	0.21	6020	05/03/12 16:42	PER	7440-62-2	
Zinc	19.2	mg/kg	1.0	6020	05/03/12 16:42	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/02/12 13:39	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/02/12 13:39	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/02/12 13:39	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/02/12 13:39	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/02/12 13:39	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/02/12 13:39	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/02/12 13:39	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.06 (continued)

Sample Tag: VAP-A5.2-NU137_39-40

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 16:49	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/03/12 16:49	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 16:49	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	120	ug/kg	70	8270C	05/03/12 16:49	PL	117-81-7	B
Fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/03/12 16:49	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.06 (continued)

Sample Tag: VAP-A5.2-NU137_39-40

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 16:49	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 16:49	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.07

Sample Tag: VAP-A5.2-NU137_44-45

Collected Date/Time: 05/01/2012 09:40

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/01/12 22:23	EMR		
Extraction, PCB	Completed			3550B	05/02/12 12:24	CCM		
Mercury Digestion	Completed			7471A	05/03/12 11:30	JRH		
Metal Digestion	Completed			3050B	05/07/12 10:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/01/12 16:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.22	6020	05/03/12 16:45	PER	7440-36-0	
Arsenic	3.21	mg/kg	0.11	6020	05/03/12 16:45	PER	7440-38-2	
Barium	37.9	mg/kg	1.1	6020	05/03/12 16:45	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.22	6020	05/03/12 16:45	PER	7440-41-7	
Boron	Not detected	mg/kg	4.4	6020	05/03/12 16:45	PER	7440-42-8	
Cadmium	0.16	mg/kg	0.11	6020	05/03/12 16:45	PER	7440-43-9	
Chromium	3.48	mg/kg	0.22	6020	05/03/12 16:45	PER	7440-47-3	
Cobalt	5.74	mg/kg	0.22	6020	05/03/12 16:45	PER	7440-48-4	
Copper	13.3	mg/kg	0.22	6020	05/03/12 16:45	PER	7440-50-8	
Lead	6.13	mg/kg	0.22	6020	05/03/12 16:45	PER	7439-92-1	
Manganese	309	mg/kg	0.22	6020	05/03/12 16:45	PER	7439-96-5	
Mercury	0.0112	mg/kg	0.0058	7471A	05/03/12 16:26	JRT	7439-97-6	
Nickel	14.2	mg/kg	0.22	6020	05/03/12 16:45	PER	7440-02-0	
Selenium	0.29	mg/kg	0.22	6020	05/03/12 16:45	PER	7782-49-2	
Silver	Not detected	mg/kg	0.11	6020	05/03/12 16:45	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.22	6020	05/03/12 16:45	PER	7440-28-0	
Vanadium	4.69	mg/kg	0.22	6020	05/03/12 16:45	PER	7440-62-2	
Zinc	22.8	mg/kg	1.1	6020	05/03/12 16:45	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/02/12 13:50	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/02/12 13:50	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/02/12 13:50	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/02/12 13:50	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/02/12 13:50	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/02/12 13:50	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/02/12 13:50	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.07 (continued)

Sample Tag: VAP-A5.2-NU137_44-45

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 17:19	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/03/12 17:19	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 17:19	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/03/12 17:19	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/03/12 17:19	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.07 (continued)

Sample Tag: VAP-A5.2-NU137_44-45

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 17:19	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 17:19	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.08
Sample Tag: VAP-A5.2-NU137_48-49
Collected Date/Time: 05/01/2012 10:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/01/12 22:23	EMR		
Extraction, PCB	Completed			3550B	05/02/12 12:24	CCM		
Mercury Digestion	Completed			7471A	05/03/12 14:20	JRH		
Metal Digestion	Completed			3050B	05/03/12 10:00	PER		

Inorganics

Total Solids	78	%	1	Std M 2540 B	05/01/12 16:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.23	6020	05/04/12 14:45	PER	7440-36-0	
Arsenic	23.3	mg/kg	0.11	6020	05/04/12 14:45	PER	7440-38-2	
Barium	91.6	mg/kg	1.1	6020	05/04/12 14:45	PER	7440-39-3	
Beryllium	0.43	mg/kg	0.23	6020	05/04/12 14:45	PER	7440-41-7	
Boron	Not detected	mg/kg	4.7	6020	05/04/12 14:45	PER	7440-42-8	
Cadmium	0.19	mg/kg	0.11	6020	05/04/12 14:45	PER	7440-43-9	
Chromium	9.84	mg/kg	0.23	6020	05/04/12 14:45	PER	7440-47-3	
Cobalt	9.19	mg/kg	0.23	6020	05/04/12 14:45	PER	7440-48-4	
Copper	21.2	mg/kg	0.23	6020	05/04/12 14:45	PER	7440-50-8	
Lead	10.0	mg/kg	0.23	6020	05/04/12 14:45	PER	7439-92-1	
Manganese	373	mg/kg	0.23	6020	05/04/12 14:45	PER	7439-96-5	
Mercury	0.0178	mg/kg	0.0064	7471A	05/04/12 13:12	JRT	7439-97-6	
Nickel	27.2	mg/kg	0.23	6020	05/04/12 14:45	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.23	6020	05/04/12 14:45	PER	7782-49-2	
Silver	Not detected	mg/kg	0.11	6020	05/04/12 14:45	PER	7440-22-4	
Thallium	0.29	mg/kg	0.23	6020	05/04/12 14:45	PER	7440-28-0	
Vanadium	13.2	mg/kg	0.23	6020	05/04/12 14:45	PER	7440-62-2	
Zinc	32.8	mg/kg	1.1	6020	05/04/12 14:45	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/02/12 14:00	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/02/12 14:00	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/02/12 14:00	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/02/12 14:00	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/02/12 14:00	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/02/12 14:00	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/02/12 14:00	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.08 (continued)

Sample Tag: VAP-A5.2-NU137_48-49

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	90	8270C	05/03/12 17:49	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	90	8270C	05/03/12 17:49	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	90	8270C	05/03/12 17:49	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	90	8270C	05/03/12 17:49	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	90	8270C	05/03/12 17:49	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.08 (continued)

Sample Tag: VAP-A5.2-NU137_48-49

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	90	8270C	05/03/12 17:49	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 17:49	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.09

Sample Tag: VAP-A5.2-NU137_54-55

Collected Date/Time: 05/01/2012 11:00

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/01/12 22:23	EMR		
Extraction, PCB	Completed			3550B	05/02/12 12:24	CCM		
Mercury Digestion	Completed			7471A	05/03/12 14:20	JRH		
Metal Digestion	Completed			3050B	05/03/12 10:00	PER		

Inorganics

Total Solids	94	%	1	Std M 2540 B	05/01/12 16:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/04/12 14:55	PER	7440-36-0	
Arsenic	2.85	mg/kg	0.10	6020	05/04/12 14:55	PER	7440-38-2	
Barium	6.31	mg/kg	1.0	6020	05/04/12 14:55	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/04/12 14:55	PER	7440-41-7	
Boron	Not detected	mg/kg	4	6020	05/04/12 14:55	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/04/12 14:55	PER	7440-43-9	
Chromium	1.30	mg/kg	0.20	6020	05/04/12 14:55	PER	7440-47-3	
Cobalt	1.33	mg/kg	0.20	6020	05/04/12 14:55	PER	7440-48-4	
Copper	2.84	mg/kg	0.20	6020	05/04/12 14:55	PER	7440-50-8	
Lead	2.00	mg/kg	0.20	6020	05/04/12 14:55	PER	7439-92-1	
Manganese	133	mg/kg	0.20	6020	05/04/12 14:55	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0052	7471A	05/04/12 13:14	JRT	7439-97-6	
Nickel	4.29	mg/kg	0.20	6020	05/04/12 14:55	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/04/12 14:55	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/04/12 14:55	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/04/12 14:55	PER	7440-28-0	
Vanadium	1.68	mg/kg	0.20	6020	05/04/12 14:55	PER	7440-62-2	
Zinc	13.6	mg/kg	1.0	6020	05/04/12 14:55	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/02/12 14:11	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/02/12 14:11	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/02/12 14:11	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/02/12 14:11	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/02/12 14:11	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/02/12 14:11	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/02/12 14:11	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.09 (continued)

Sample Tag: VAP-A5.2-NU137_54-55

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 18:18	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/03/12 18:18	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 18:18	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	80	ug/kg	70	8270C	05/03/12 18:18	PL	117-81-7	B
Fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/03/12 18:18	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.09 (continued)

Sample Tag: VAP-A5.2-NU137_54-55

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 18:18	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 18:18	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.10
Sample Tag: VAP-A5.2-NU137_57-58
Collected Date/Time: 05/01/2012 11:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/01/12 22:23	EMR		
Extraction, PCB	Completed			3550B	05/02/12 12:24	CCM		
Mercury Digestion	Completed			7471A	05/03/12 14:20	JRH		
Metal Digestion	Completed			3050B	05/03/12 10:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	05/01/12 16:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/04/12 14:58	PER	7440-36-0	
Arsenic	5.25	mg/kg	0.10	6020	05/04/12 14:58	PER	7440-38-2	
Barium	10.0	mg/kg	1.0	6020	05/04/12 14:58	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/04/12 14:58	PER	7440-41-7	
Boron	Not detected	mg/kg	4	6020	05/04/12 14:58	PER	7440-42-8	
Cadmium	0.14	mg/kg	0.10	6020	05/04/12 14:58	PER	7440-43-9	
Chromium	1.56	mg/kg	0.20	6020	05/04/12 14:58	PER	7440-47-3	
Cobalt	2.15	mg/kg	0.20	6020	05/04/12 14:58	PER	7440-48-4	
Copper	5.69	mg/kg	0.20	6020	05/04/12 14:58	PER	7440-50-8	
Lead	3.88	mg/kg	0.20	6020	05/04/12 14:58	PER	7439-92-1	
Manganese	231	mg/kg	0.20	6020	05/04/12 14:58	PER	7439-96-5	
Mercury	0.0065	mg/kg	0.0054	7471A	05/04/12 13:31	JRT	7439-97-6	
Nickel	6.80	mg/kg	0.20	6020	05/04/12 14:58	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/04/12 14:58	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/04/12 14:58	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/04/12 14:58	PER	7440-28-0	
Vanadium	2.17	mg/kg	0.20	6020	05/04/12 14:58	PER	7440-62-2	
Zinc	17.3	mg/kg	1.0	6020	05/04/12 14:58	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/02/12 14:21	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/02/12 14:21	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/02/12 14:21	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/02/12 14:21	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/02/12 14:21	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/02/12 14:21	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/02/12 14:21	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.10 (continued)

Sample Tag: VAP-A5.2-NU137_57-58

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 18:47	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/03/12 18:47	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 18:47	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	80	ug/kg	70	8270C	05/03/12 18:47	PL	117-81-7	B
Fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/03/12 18:47	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.10 (continued)

Sample Tag: VAP-A5.2-NU137_57-58

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 18:47	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 18:47	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.11
Sample Tag: VAP-A5.2-NU137_24-26
Collected Date/Time: 04/30/2012 16:00
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.2	IR
2	40ml Glass	HCL	Yes	5.2	IR
1	125ml Plastic	HNO3	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/02/12 22:23	EMR		
Extraction, PCB	Completed			3510C	05/04/12 9:11	CCM		
Mercury Digestion	Completed			7471A	05/07/12 10:05	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:16	SLS	7440-36-0	
Arsenic, Dissolved	0.003	mg/L	0.002	6020	05/10/12 14:16	SLS	7440-38-2	
Barium, Dissolved	0.896	mg/L	0.010	6020	05/10/12 14:16	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 14:16	SLS	7440-41-7	
Boron, Dissolved	0.05	mg/L	0.04	6020	05/10/12 14:16	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 14:16	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:16	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:16	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:16	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:16	SLS	7439-92-1	
Manganese, Dissolved	0.356	mg/L	0.010	6020	05/10/12 14:16	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/08/12 11:29	JRT	7439-97-6	
Nickel, Dissolved	0.012	mg/L	0.010	6020	05/10/12 14:16	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:16	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 14:16	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:16	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:16	SLS	7440-62-2	
Zinc, Dissolved	0.020	mg/L	0.010	6020	05/10/12 14:16	SLS	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List Dissolved (Column 1)**

PCB-1016	Not detected	ug/L	0.05	8082A	05/04/12 13:08	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/04/12 13:08	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/04/12 13:08	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/04/12 13:08	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/04/12 13:08	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/04/12 13:08	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/04/12 13:08	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/08/12 14:07	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/08/12 14:07	PL	118-74-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.11 (continued)

Sample Tag: VAP-A5.2-NU137_24-26

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/L	2	8270C	05/04/12 17:05	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	8270C	05/04/12 17:05	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	3/4-Cresol	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.11 (continued)

Sample Tag: VAP-A5.2-NU137_24-26

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2-Nitroaniline	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/04/12 17:05	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	100	8260B - SIM	05/10/12 17:10	JGH	123-91-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.12
Sample Tag: VAP-A5.2-NU137_16-18
Collected Date/Time: 05/01/2012 13:00
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.2	IR
2	40ml Glass	HCL	Yes	5.2	IR
1	125ml Plastic	HNO3	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/02/12 22:23	EMR		
Extraction, PCB	Completed			3510C	05/04/12 9:11	CCM		
Mercury Digestion	Completed			7471A	05/07/12 10:05	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:20	SLS	7440-36-0	
Arsenic, Dissolved	0.030	mg/L	0.002	6020	05/10/12 14:20	SLS	7440-38-2	
Barium, Dissolved	0.563	mg/L	0.010	6020	05/10/12 14:20	SLS	7440-39-3	
Beryllium, Dissolved	0.001	mg/L	0.001	6020	05/10/12 14:20	SLS	7440-41-7	
Boron, Dissolved	0.24	mg/L	0.04	6020	05/10/12 14:20	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 14:20	SLS	7440-43-9	
Chromium, Dissolved	0.066	mg/L	0.010	6020	05/10/12 14:20	SLS	7440-47-3	
Cobalt, Dissolved	0.020	mg/L	0.010	6020	05/10/12 14:20	SLS	7440-48-4	
Copper, Dissolved	0.051	mg/L	0.002	6020	05/10/12 14:20	SLS	7440-50-8	
Lead, Dissolved	0.033	mg/L	0.002	6020	05/10/12 14:20	SLS	7439-92-1	
Manganese, Dissolved	2.08	mg/L	0.010	6020	05/10/12 14:20	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/08/12 11:32	JRT	7439-97-6	
Nickel, Dissolved	0.064	mg/L	0.010	6020	05/10/12 14:20	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:20	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 14:20	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:20	SLS	7440-28-0	
Vanadium, Dissolved	0.044	mg/L	0.002	6020	05/10/12 14:20	SLS	7440-62-2	
Zinc, Dissolved	0.091	mg/L	0.010	6020	05/10/12 14:20	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/04/12 13:19	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/04/12 13:19	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/04/12 13:19	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/04/12 13:19	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/04/12 13:19	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/04/12 13:19	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/04/12 13:19	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/08/12 14:35	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/08/12 14:35	PL	118-74-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.12 (continued)

Sample Tag: VAP-A5.2-NU137_16-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/L	2	8270C	05/04/12 17:38	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	8270C	05/04/12 17:38	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	3/4-Cresol	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.12 (continued)

Sample Tag: VAP-A5.2-NU137_16-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2-Nitroaniline	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/04/12 17:38	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	100	8260B - SIM	05/10/12 17:31	JGH	123-91-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.13
Sample Tag: Trip Blank
Collected Date/Time: 04/30/2012 00:01
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				05/04/12 09:00	BJB		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.14

Sample Tag: SB-A5.2-NZ138_1-2

Collected Date/Time: 05/01/2012 08:55

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/01/12 22:23	EMR		
Extraction, PCB	Completed			3550B	05/02/12 12:24	CCM		
Mercury Digestion	Completed			7471A	05/03/12 14:20	JRH		
Metal Digestion	Completed			3050B	05/03/12 10:00	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	05/01/12 16:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.22	6020	05/04/12 15:23	PER	7440-36-0	
Arsenic	0.77	mg/kg	0.11	6020	05/04/12 15:23	PER	7440-38-2	
Barium	15.2	mg/kg	1.1	6020	05/04/12 15:23	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.22	6020	05/04/12 15:23	PER	7440-41-7	
Boron	Not detected	mg/kg	4.4	6020	05/04/12 15:23	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.11	6020	05/04/12 15:23	PER	7440-43-9	
Chromium	1.59	mg/kg	0.22	6020	05/04/12 15:23	PER	7440-47-3	
Cobalt	10.9	mg/kg	0.22	6020	05/04/12 15:23	PER	7440-48-4	
Copper	3.56	mg/kg	0.22	6020	05/04/12 15:23	PER	7440-50-8	
Lead	5.53	mg/kg	0.22	6020	05/04/12 15:23	PER	7439-92-1	
Manganese	138	mg/kg	0.22	6020	05/04/12 15:23	PER	7439-96-5	
Mercury	0.0086	mg/kg	0.0061	7471A	05/04/12 13:16	JRT	7439-97-6	
Nickel	4.55	mg/kg	0.22	6020	05/04/12 15:23	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.22	6020	05/04/12 15:23	PER	7782-49-2	
Silver	1.15	mg/kg	0.11	6020	05/04/12 15:23	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.22	6020	05/04/12 15:23	PER	7440-28-0	
Vanadium	2.30	mg/kg	0.22	6020	05/04/12 15:23	PER	7440-62-2	
Zinc	6.88	mg/kg	1.1	6020	05/04/12 15:23	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	5	8082A	05/02/12 14:32	JANB	12674-11-2	X
PCB-1242	Not detected	ug/kg	5	8082A	05/02/12 14:32	JANB	53469-21-9	X
PCB-1221	Not detected	ug/kg	5	8082A	05/02/12 14:32	JANB	11104-28-2	X
PCB-1232	Not detected	ug/kg	5	8082A	05/02/12 14:32	JANB	11141-16-5	X
PCB-1248	Not detected	ug/kg	5	8082A	05/02/12 14:32	JANB	12672-29-6	X
PCB-1254	10	ug/kg	5	8082A	05/02/12 14:32	JANB	11097-69-1	X
PCB-1260	Not detected	ug/kg	5	8082A	05/02/12 14:32	JANB	11096-82-5	X

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	208-96-8	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.14 (continued)

Sample Tag: SB-A5.2-NZ138_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 19:16	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	50-32-8	
Benzo(b)fluoranthene	60	ug/kg	40	8270C	05/03/12 19:16	PL	205-99-2	p
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	191-24-2	
Benzo(k)fluoranthene	60	ug/kg	40	8270C	05/03/12 19:16	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/03/12 19:16	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 19:16	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/03/12 19:16	PL	117-81-7	
Fluoranthene	60	ug/kg	40	8270C	05/03/12 19:16	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/03/12 19:16	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	88-74-4	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.14 (continued)

Sample Tag: SB-A5.2-NZ138_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 19:16	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	87-86-5	
Phenanthrene	60	ug/kg	40	8270C	05/03/12 19:16	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	108-95-2	
Pyrene	50	ug/kg	40	8270C	05/03/12 19:16	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.15

Sample Tag: SB-A5.2-NZ128_1-2

Collected Date/Time: 05/01/2012 09:50

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/01/12 22:23	EMR		
Extraction, PCB	Completed			3550B	05/02/12 12:24	CCM		
Mercury Digestion	Completed			7471A	05/03/12 14:20	JRH		
Metal Digestion	Completed			3050B	05/03/12 10:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/01/12 16:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/04/12 15:26	PER	7440-36-0	
Arsenic	0.43	mg/kg	0.10	6020	05/04/12 15:26	PER	7440-38-2	
Barium	11.0	mg/kg	1.0	6020	05/04/12 15:26	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/04/12 15:26	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	05/04/12 15:26	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/04/12 15:26	PER	7440-43-9	
Chromium	1.39	mg/kg	0.21	6020	05/04/12 15:26	PER	7440-47-3	
Cobalt	1.22	mg/kg	0.21	6020	05/04/12 15:26	PER	7440-48-4	
Copper	2.06	mg/kg	0.21	6020	05/04/12 15:26	PER	7440-50-8	
Lead	2.11	mg/kg	0.21	6020	05/04/12 15:26	PER	7439-92-1	
Manganese	85.2	mg/kg	0.21	6020	05/04/12 15:26	PER	7439-96-5	
Mercury	0.0080	mg/kg	0.0058	7471A	05/04/12 13:18	JRT	7439-97-6	
Nickel	1.89	mg/kg	0.21	6020	05/04/12 15:26	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/04/12 15:26	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/04/12 15:26	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/04/12 15:26	PER	7440-28-0	
Vanadium	2.34	mg/kg	0.21	6020	05/04/12 15:26	PER	7440-62-2	
Zinc	2.42	mg/kg	1.0	6020	05/04/12 15:26	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/02/12 14:43	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/02/12 14:43	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/02/12 14:43	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/02/12 14:43	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/02/12 14:43	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/02/12 14:43	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/02/12 14:43	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.15 (continued)

Sample Tag: SB-A5.2-NZ128_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 19:46	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/03/12 19:46	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 19:46	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/03/12 19:46	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/03/12 19:46	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.15 (continued)

Sample Tag: SB-A5.2-NZ128_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 19:46	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 19:46	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.16

Sample Tag: SB-A5.2-NZ128_4-5

Collected Date/Time: 05/01/2012 09:55

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/01/12 22:23	EMR		
Extraction, PCB	Completed			3550B	05/02/12 12:24	CCM		
Mercury Digestion	Completed			7471A	05/03/12 14:20	JRH		
Metal Digestion	Completed			3050B	05/03/12 10:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/01/12 16:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/04/12 15:28	PER	7440-36-0	
Arsenic	1.34	mg/kg	0.10	6020	05/04/12 15:28	PER	7440-38-2	
Barium	6.08	mg/kg	1.0	6020	05/04/12 15:28	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/04/12 15:28	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/04/12 15:28	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/04/12 15:28	PER	7440-43-9	
Chromium	1.05	mg/kg	0.21	6020	05/04/12 15:28	PER	7440-47-3	
Cobalt	0.85	mg/kg	0.21	6020	05/04/12 15:28	PER	7440-48-4	
Copper	3.35	mg/kg	0.21	6020	05/04/12 15:28	PER	7440-50-8	
Lead	34.6	mg/kg	0.21	6020	05/04/12 15:28	PER	7439-92-1	
Manganese	99.0	mg/kg	0.21	6020	05/04/12 15:28	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0056	7471A	05/04/12 13:20	JRT	7439-97-6	
Nickel	3.36	mg/kg	0.21	6020	05/04/12 15:28	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/04/12 15:28	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/04/12 15:28	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/04/12 15:28	PER	7440-28-0	
Vanadium	1.64	mg/kg	0.21	6020	05/04/12 15:28	PER	7440-62-2	
Zinc	6.53	mg/kg	1.0	6020	05/04/12 15:28	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	300	8082A	05/03/12 12:48	JANB	12674-11-2	Y
PCB-1242	2,800	ug/kg	300	8082A	05/03/12 12:48	JANB	53469-21-9	Q
PCB-1221	Not detected	ug/kg	300	8082A	05/03/12 12:48	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	300	8082A	05/03/12 12:48	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	300	8082A	05/03/12 12:48	JANB	12672-29-6	Y
PCB-1254	Not detected	ug/kg	300	8082A	05/03/12 12:48	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	300	8082A	05/03/12 12:48	JANB	11096-82-5	Y

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,900	ug/kg	800	8270C	05/03/12 23:10	PL	83-32-9	X
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Y-Elevated reporting limit due to high target concentration

Q-Reported result represents most abundant aroclor

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.16 (continued)

Sample Tag: SB-A5.2-NZ128_4-5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acenaphthylene	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	98-86-2	X
Anthracene	1,000	ug/kg	800	8270C	05/03/12 23:10	PL	120-12-7	X
Atrazine	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	05/03/12 23:10	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	105-60-2	X
Carbazole	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	108-60-1	X
Chrysene	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	05/03/12 23:10	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	05/03/12 23:10	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	05/03/12 23:10	PL	117-81-7	X
Fluoranthene	1,200	ug/kg	800	8270C	05/03/12 23:10	PL	206-44-0	X
Fluorene	4,100	ug/kg	800	8270C	05/03/12 23:10	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	193-39-5	X
Isophorone	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	05/03/12 23:10	PL	3/4-Cresol	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.16 (continued)

Sample Tag: SB-A5.2-NZ128_4-5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	05/03/12 23:10	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	87-86-5	X
Phenanthrene	5,500	ug/kg	800	8270C	05/03/12 23:10	PL	85-01-8	X
Phenol	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	108-95-2	X
Pyrene	1,700	ug/kg	800	8270C	05/03/12 23:10	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	800	8270C	05/03/12 23:10	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.17

Sample Tag: SB-A5.2-NZ128_6.5-7.5

Collected Date/Time: 05/01/2012 10:15

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/01/12 22:23	EMR		
Extraction, PCB	Completed			3550B	05/02/12 12:24	CCM		
Mercury Digestion	Completed			7471A	05/03/12 14:20	JRH		
Metal Digestion	Completed			3050B	05/03/12 10:00	PER		

Inorganics

Total Solids	81	%	1	Std M 2540 B	05/01/12 16:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.22	6020	05/04/12 15:31	PER	7440-36-0	
Arsenic	0.30	mg/kg	0.11	6020	05/04/12 15:31	PER	7440-38-2	
Barium	58.7	mg/kg	1.1	6020	05/04/12 15:31	PER	7440-39-3	
Beryllium	0.35	mg/kg	0.22	6020	05/04/12 15:31	PER	7440-41-7	
Boron	Not detected	mg/kg	4.5	6020	05/04/12 15:31	PER	7440-42-8	
Cadmium	0.15	mg/kg	0.11	6020	05/04/12 15:31	PER	7440-43-9	
Chromium	3.47	mg/kg	0.22	6020	05/04/12 15:31	PER	7440-47-3	
Cobalt	1.69	mg/kg	0.22	6020	05/04/12 15:31	PER	7440-48-4	
Copper	8.50	mg/kg	0.22	6020	05/04/12 15:31	PER	7440-50-8	
Lead	7.97	mg/kg	0.22	6020	05/04/12 15:31	PER	7439-92-1	
Manganese	44.7	mg/kg	0.22	6020	05/04/12 15:31	PER	7439-96-5	
Mercury	0.0389	mg/kg	0.0060	7471A	05/04/12 13:23	JRT	7439-97-6	
Nickel	2.52	mg/kg	0.22	6020	05/04/12 15:31	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.22	6020	05/04/12 15:31	PER	7782-49-2	
Silver	Not detected	mg/kg	0.11	6020	05/04/12 15:31	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.22	6020	05/04/12 15:31	PER	7440-28-0	
Vanadium	4.48	mg/kg	0.22	6020	05/04/12 15:31	PER	7440-62-2	
Zinc	17.0	mg/kg	1.1	6020	05/04/12 15:31	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	50	8082A	05/03/12 12:32	JANB	12674-11-2	Y
PCB-1242	600	ug/kg	50	8082A	05/03/12 12:32	JANB	53469-21-9	YQ
PCB-1221	Not detected	ug/kg	50	8082A	05/03/12 12:32	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	50	8082A	05/03/12 12:32	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	50	8082A	05/03/12 12:32	JANB	12672-29-6	Y
PCB-1254	Not detected	ug/kg	50	8082A	05/03/12 12:32	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	50	8082A	05/03/12 12:32	JANB	11096-82-5	Y

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	83-32-9	
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Y-Elevated reporting limit due to high target concentration

Q-Reported result represents most abundant aroclor



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.17 (continued)

Sample Tag: SB-A5.2-NZ128_6.5-7.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acenaphthylene	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	208-96-8	
Acetophenone	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	98-86-2	
Anthracene	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	120-12-7	
Atrazine	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	600	8270C	05/03/12 22:12	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	105-60-2	
Carbazole	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	108-60-1	
Chrysene	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	600	8270C	05/03/12 22:12	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	600	8270C	05/03/12 22:12	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	600	8270C	05/03/12 22:12	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	206-44-0	
Fluorene	600	ug/kg	300	8270C	05/03/12 22:12	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	193-39-5	
Isophorone	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	600	8270C	05/03/12 22:12	PL	3/4-Cresol	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.17 (continued)

Sample Tag: SB-A5.2-NZ128_6.5-7.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	86-30-6	
Naphthalene	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	600	8270C	05/03/12 22:12	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	87-86-5	
Phenanthrene	700	ug/kg	300	8270C	05/03/12 22:12	PL	85-01-8	
Phenol	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	108-95-2	
Pyrene	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	300	8270C	05/03/12 22:12	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.18
Sample Tag: SB-A5.2-NZ128_11-12
Collected Date/Time: 05/01/2012 10:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/01/12 22:23	EMR		
Extraction, PCB	Completed			3550B	05/02/12 12:24	CCM		
Mercury Digestion	Completed			7471A	05/03/12 14:20	JRH		
Metal Digestion	Completed			3050B	05/03/12 10:00	PER		

Inorganics

Total Solids	82	%	1	Std M 2540 B	05/01/12 16:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.22	6020	05/04/12 15:33	PER	7440-36-0	
Arsenic	0.29	mg/kg	0.11	6020	05/04/12 15:33	PER	7440-38-2	
Barium	2.42	mg/kg	1.1	6020	05/04/12 15:33	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.22	6020	05/04/12 15:33	PER	7440-41-7	
Boron	Not detected	mg/kg	4.4	6020	05/04/12 15:33	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.11	6020	05/04/12 15:33	PER	7440-43-9	
Chromium	0.71	mg/kg	0.22	6020	05/04/12 15:33	PER	7440-47-3	
Cobalt	0.37	mg/kg	0.22	6020	05/04/12 15:33	PER	7440-48-4	
Copper	0.95	mg/kg	0.22	6020	05/04/12 15:33	PER	7440-50-8	
Lead	0.76	mg/kg	0.22	6020	05/04/12 15:33	PER	7439-92-1	
Manganese	62.2	mg/kg	0.22	6020	05/04/12 15:33	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0061	7471A	05/04/12 13:25	JRT	7439-97-6	
Nickel	2.13	mg/kg	0.22	6020	05/04/12 15:33	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.22	6020	05/04/12 15:33	PER	7782-49-2	
Silver	Not detected	mg/kg	0.11	6020	05/04/12 15:33	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.22	6020	05/04/12 15:33	PER	7440-28-0	
Vanadium	0.88	mg/kg	0.22	6020	05/04/12 15:33	PER	7440-62-2	
Zinc	1.54	mg/kg	1.1	6020	05/04/12 15:33	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/02/12 15:04	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/02/12 15:04	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/02/12 15:04	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/02/12 15:04	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/02/12 15:04	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/02/12 15:04	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/02/12 15:04	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.18 (continued)

Sample Tag: SB-A5.2-NZ128_11-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 20:15	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/03/12 20:15	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 20:15	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/03/12 20:15	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/03/12 20:15	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.18 (continued)

Sample Tag: SB-A5.2-NZ128_11-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 20:15	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 20:15	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.19
Sample Tag: SB-A5.2-NZ128_16-17
Collected Date/Time: 05/01/2012 11:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/01/12 22:23	EMR		
Extraction, PCB	Completed			3550B	05/02/12 12:24	CCM		
Mercury Digestion	Completed			7471A	05/03/12 14:20	JRH		
Metal Digestion	Completed			3050B	05/03/12 10:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/01/12 16:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/04/12 15:36	PER	7440-36-0	
Arsenic	0.79	mg/kg	0.10	6020	05/04/12 15:36	PER	7440-38-2	
Barium	30.4	mg/kg	1.0	6020	05/04/12 15:36	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/04/12 15:36	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/04/12 15:36	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/04/12 15:36	PER	7440-43-9	
Chromium	3.89	mg/kg	0.21	6020	05/04/12 15:36	PER	7440-47-3	
Cobalt	3.06	mg/kg	0.21	6020	05/04/12 15:36	PER	7440-48-4	
Copper	7.93	mg/kg	0.21	6020	05/04/12 15:36	PER	7440-50-8	
Lead	3.62	mg/kg	0.21	6020	05/04/12 15:36	PER	7439-92-1	
Manganese	264	mg/kg	0.21	6020	05/04/12 15:36	PER	7439-96-5	
Mercury	0.0091	mg/kg	0.0055	7471A	05/04/12 13:27	JRT	7439-97-6	
Nickel	10.6	mg/kg	0.21	6020	05/04/12 15:36	PER	7440-02-0	
Selenium	0.21	mg/kg	0.21	6020	05/04/12 15:36	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/04/12 15:36	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/04/12 15:36	PER	7440-28-0	
Vanadium	5.78	mg/kg	0.21	6020	05/04/12 15:36	PER	7440-62-2	
Zinc	10.8	mg/kg	1.0	6020	05/04/12 15:36	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/02/12 15:14	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/02/12 15:14	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/02/12 15:14	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/02/12 15:14	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/02/12 15:14	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/02/12 15:14	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/02/12 15:14	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.19 (continued)

Sample Tag: SB-A5.2-NZ128_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 20:44	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/03/12 20:44	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 20:44	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/03/12 20:44	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/03/12 20:44	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.19 (continued)

Sample Tag: SB-A5.2-NZ128_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 20:44	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 20:44	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.20
Sample Tag: SB-A5.2-NZ128_20-21
Collected Date/Time: 05/01/2012 12:07
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/01/12 22:23	EMR		
Extraction, PCB	Completed			3550B	05/02/12 12:24	CCM		
Mercury Digestion	Completed			7471A	05/03/12 14:20	JRH		
Metal Digestion	Completed			3050B	05/03/12 10:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/01/12 16:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/04/12 15:38	PER	7440-36-0	
Arsenic	2.14	mg/kg	0.10	6020	05/04/12 15:38	PER	7440-38-2	
Barium	42.6	mg/kg	1.0	6020	05/04/12 15:38	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/04/12 15:38	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	05/04/12 15:38	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/04/12 15:38	PER	7440-43-9	
Chromium	6.04	mg/kg	0.21	6020	05/04/12 15:38	PER	7440-47-3	
Cobalt	3.81	mg/kg	0.21	6020	05/04/12 15:38	PER	7440-48-4	
Copper	11.2	mg/kg	0.21	6020	05/04/12 15:38	PER	7440-50-8	
Lead	5.08	mg/kg	0.21	6020	05/04/12 15:38	PER	7439-92-1	
Manganese	308	mg/kg	0.21	6020	05/04/12 15:38	PER	7439-96-5	
Mercury	0.0113	mg/kg	0.0057	7471A	05/04/12 13:29	JRT	7439-97-6	
Nickel	11.7	mg/kg	0.21	6020	05/04/12 15:38	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/04/12 15:38	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/04/12 15:38	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/04/12 15:38	PER	7440-28-0	
Vanadium	6.94	mg/kg	0.21	6020	05/04/12 15:38	PER	7440-62-2	
Zinc	17.2	mg/kg	1.0	6020	05/04/12 15:38	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/02/12 15:25	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/02/12 15:25	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/02/12 15:25	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/02/12 15:25	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/02/12 15:25	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/02/12 15:25	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/02/12 15:25	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.20 (continued)

Sample Tag: SB-A5.2-NZ128_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 21:13	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/03/12 21:13	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 21:13	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/03/12 21:13	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/03/12 21:13	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.20 (continued)

Sample Tag: SB-A5.2-NZ128_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 21:13	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 21:13	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.21

Sample Tag: SB-A5.2-NZ128_25-26

Collected Date/Time: 05/01/2012 12:20

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/01/12 22:23	EMR		
Extraction, PCB	Completed			3550B	05/02/12 12:24	CCM		
Mercury Digestion	Completed			7471A	05/03/12 14:20	JRH		
Metal Digestion	Completed			3050B	05/03/12 10:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/01/12 16:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/04/12 15:41	PER	7440-36-0	
Arsenic	2.21	mg/kg	0.10	6020	05/04/12 15:41	PER	7440-38-2	
Barium	36.6	mg/kg	1.0	6020	05/04/12 15:41	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/04/12 15:41	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/04/12 15:41	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/04/12 15:41	PER	7440-43-9	
Chromium	4.69	mg/kg	0.21	6020	05/04/12 15:41	PER	7440-47-3	
Cobalt	3.12	mg/kg	0.21	6020	05/04/12 15:41	PER	7440-48-4	
Copper	9.53	mg/kg	0.21	6020	05/04/12 15:41	PER	7440-50-8	
Lead	3.83	mg/kg	0.21	6020	05/04/12 15:41	PER	7439-92-1	
Manganese	216	mg/kg	0.21	6020	05/04/12 15:41	PER	7439-96-5	
Mercury	0.0163	mg/kg	0.0057	7471A	05/04/12 13:47	JRT	7439-97-6	
Nickel	10.7	mg/kg	0.21	6020	05/04/12 15:41	PER	7440-02-0	
Selenium	0.22	mg/kg	0.21	6020	05/04/12 15:41	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/04/12 15:41	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/04/12 15:41	PER	7440-28-0	
Vanadium	5.40	mg/kg	0.21	6020	05/04/12 15:41	PER	7440-62-2	
Zinc	11.9	mg/kg	1.0	6020	05/04/12 15:41	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/02/12 15:36	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/02/12 15:36	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/02/12 15:36	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/02/12 15:36	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/02/12 15:36	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/02/12 15:36	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/02/12 15:36	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.21 (continued)

Sample Tag: SB-A5.2-NZ128_25-26

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 21:43	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/03/12 21:43	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 21:43	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/03/12 21:43	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/03/12 21:43	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.21 (continued)

Sample Tag: SB-A5.2-NZ128_25-26

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 21:43	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 21:43	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.22

Sample Tag: SB-A5.2-NW124_1-2

Collected Date/Time: 05/01/2012 13:20

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/01/12 22:23	EMR		
Extraction, PCB	Completed			3550B	05/02/12 12:24	CCM		
Mercury Digestion	Completed			7471A	05/03/12 14:20	JRH		
Metal Digestion	Completed			3050B	05/03/12 10:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/01/12 16:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/04/12 15:54	PER	7440-36-0	
Arsenic	1.10	mg/kg	0.10	6020	05/04/12 15:54	PER	7440-38-2	
Barium	22.9	mg/kg	1.0	6020	05/04/12 15:54	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/04/12 15:54	PER	7440-41-7	
Boron	Not detected	mg/kg	4	6020	05/04/12 15:54	PER	7440-42-8	
Cadmium	0.10	mg/kg	0.10	6020	05/04/12 15:54	PER	7440-43-9	
Chromium	2.51	mg/kg	0.20	6020	05/04/12 15:54	PER	7440-47-3	
Cobalt	1.59	mg/kg	0.20	6020	05/04/12 15:54	PER	7440-48-4	
Copper	4.50	mg/kg	0.20	6020	05/04/12 15:54	PER	7440-50-8	
Lead	8.38	mg/kg	0.20	6020	05/04/12 15:54	PER	7439-92-1	
Manganese	172	mg/kg	0.20	6020	05/04/12 15:54	PER	7439-96-5	
Mercury	0.0138	mg/kg	0.0056	7471A	05/04/12 13:49	JRT	7439-97-6	
Nickel	3.86	mg/kg	0.20	6020	05/04/12 15:54	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/04/12 15:54	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/04/12 15:54	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/04/12 15:54	PER	7440-28-0	
Vanadium	3.34	mg/kg	0.20	6020	05/04/12 15:54	PER	7440-62-2	
Zinc	16.1	mg/kg	1.0	6020	05/04/12 15:54	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/02/12 16:07	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/02/12 16:07	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/02/12 16:07	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/02/12 16:07	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/02/12 16:07	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/02/12 16:07	JANB	11097-69-1	
PCB-1260	20	ug/kg	3	8082A	05/02/12 16:07	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	50	ug/kg	40	8270C	05/03/12 23:39	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.22 (continued)

Sample Tag: SB-A5.2-NW124_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	200	ug/kg	40	8270C	05/03/12 23:39	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 23:39	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	100-52-7	
Benzo(a)anthracene	700	ug/kg	40	8270C	05/03/12 23:39	PL	56-55-3	
Benzo(a)pyrene	750	ug/kg	40	8270C	05/03/12 23:39	PL	50-32-8	
Benzo(b)fluoranthene	1,420	ug/kg	40	8270C	05/03/12 23:39	PL	205-99-2	p
Benzo(ghi)perylene	300	ug/kg	40	8270C	05/03/12 23:39	PL	191-24-2	
Benzo(k)fluoranthene	1,440	ug/kg	40	8270C	05/03/12 23:39	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	105-60-2	
Carbazole	130	ug/kg	40	8270C	05/03/12 23:39	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	108-60-1	
Chrysene	760	ug/kg	40	8270C	05/03/12 23:39	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	534-52-1	
Dibenzo(ah)anthracene	120	ug/kg	70	8270C	05/03/12 23:39	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 23:39	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	190	ug/kg	70	8270C	05/03/12 23:39	PL	117-81-7	B
Fluoranthene	1,430	ug/kg	40	8270C	05/03/12 23:39	PL	206-44-0	
Fluorene	60	ug/kg	40	8270C	05/03/12 23:39	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	300	ug/kg	40	8270C	05/03/12 23:39	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/03/12 23:39	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	88-74-4	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.22 (continued)

Sample Tag: SB-A5.2-NW124_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 23:39	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	87-86-5	
Phenanthrene	700	ug/kg	40	8270C	05/03/12 23:39	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	108-95-2	
Pyrene	1,250	ug/kg	40	8270C	05/03/12 23:39	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 23:39	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.23

Sample Tag: SB-A5.2-NW124_4-5

Collected Date/Time: 05/01/2012 13:40

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/01/12 22:23	EMR		
Extraction, PCB	Completed			3550B	05/02/12 12:24	CCM		
Mercury Digestion	Completed			7471A	05/03/12 14:20	JRH		
Metal Digestion	Completed			3050B	05/03/12 10:00	PER		

Inorganics

Total Solids	93	%	1	Std M 2540 B	05/01/12 16:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/04/12 15:56	PER	7440-36-0	
Arsenic	0.95	mg/kg	0.10	6020	05/04/12 15:56	PER	7440-38-2	
Barium	22.1	mg/kg	1.0	6020	05/04/12 15:56	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/04/12 15:56	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/04/12 15:56	PER	7440-42-8	
Cadmium	0.10	mg/kg	0.10	6020	05/04/12 15:56	PER	7440-43-9	
Chromium	2.96	mg/kg	0.20	6020	05/04/12 15:56	PER	7440-47-3	
Cobalt	1.33	mg/kg	0.20	6020	05/04/12 15:56	PER	7440-48-4	
Copper	6.74	mg/kg	0.20	6020	05/04/12 15:56	PER	7440-50-8	
Lead	4.89	mg/kg	0.20	6020	05/04/12 15:56	PER	7439-92-1	
Manganese	91.7	mg/kg	0.20	6020	05/04/12 15:56	PER	7439-96-5	
Mercury	0.0056	mg/kg	0.0054	7471A	05/04/12 13:51	JRT	7439-97-6	
Nickel	4.83	mg/kg	0.20	6020	05/04/12 15:56	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/04/12 15:56	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/04/12 15:56	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/04/12 15:56	PER	7440-28-0	
Vanadium	5.35	mg/kg	0.20	6020	05/04/12 15:56	PER	7440-62-2	
Zinc	10.7	mg/kg	1.0	6020	05/04/12 15:56	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3,000	8082A	05/03/12 13:06	JANB	12674-11-2	Y
PCB-1242	22,000	ug/kg	3,000	8082A	05/03/12 13:06	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	3,000	8082A	05/03/12 13:06	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	3,000	8082A	05/03/12 13:06	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	3,000	8082A	05/03/12 13:06	JANB	12672-29-6	Y
PCB-1254	Not detected	ug/kg	3,000	8082A	05/03/12 13:06	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	3,000	8082A	05/03/12 13:06	JANB	11096-82-5	Y

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	83-32-9	X
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Y-Elevated reporting limit due to high target concentration

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.23 (continued)

Sample Tag: SB-A5.2-NW124_4-5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acenaphthylene	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	98-86-2	X
Anthracene	1,900	ug/kg	500	8270C	05/03/12 22:41	PL	120-12-7	X
Atrazine	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	1912-24-9	X
1,1'-Biphenyl	600	ug/kg	500	8270C	05/03/12 22:41	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	1,000	8270C	05/03/12 22:41	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	105-60-2	X
Carbazole	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	108-60-1	X
Chrysene	600	ug/kg	500	8270C	05/03/12 22:41	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	600	ug/kg	500	8270C	05/03/12 22:41	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	1,000	8270C	05/03/12 22:41	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	1,000	8270C	05/03/12 22:41	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	1,000	8270C	05/03/12 22:41	PL	117-81-7	X
Fluoranthene	1,300	ug/kg	500	8270C	05/03/12 22:41	PL	206-44-0	X
Fluorene	12,400	ug/kg	500	8270C	05/03/12 22:41	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	193-39-5	X
Isophorone	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	78-59-1	X
2-Methylnaphthalene	700	ug/kg	500	8270C	05/03/12 22:41	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	1,000	8270C	05/03/12 22:41	PL	3/4-Cresol	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.23 (continued)

Sample Tag: SB-A5.2-NW124_4-5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	1,000	8270C	05/03/12 22:41	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	87-86-5	X
Phenanthrene	11,700	ug/kg	500	8270C	05/03/12 22:41	PL	85-01-8	X
Phenol	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	108-95-2	X
Pyrene	1,700	ug/kg	500	8270C	05/03/12 22:41	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	500	8270C	05/03/12 22:41	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.24

Sample Tag: SB-A5.2-NW124_7-8

Collected Date/Time: 05/01/2012 13:52

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/02/12 16:44	CCM		
Extraction, PCB	Completed			3550B	05/02/12 12:53	CCM		
Mercury Digestion	Completed			7471A	05/03/12 14:20	JRH		
Metal Digestion	Completed			3050B	05/03/12 10:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/01/12 16:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.22	6020	05/04/12 15:59	PER	7440-36-0	
Arsenic	1.29	mg/kg	0.11	6020	05/04/12 15:59	PER	7440-38-2	
Barium	26.7	mg/kg	1.1	6020	05/04/12 15:59	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.22	6020	05/04/12 15:59	PER	7440-41-7	
Boron	Not detected	mg/kg	4.5	6020	05/04/12 15:59	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.11	6020	05/04/12 15:59	PER	7440-43-9	
Chromium	4.12	mg/kg	0.22	6020	05/04/12 15:59	PER	7440-47-3	
Cobalt	3.47	mg/kg	0.22	6020	05/04/12 15:59	PER	7440-48-4	
Copper	7.51	mg/kg	0.22	6020	05/04/12 15:59	PER	7440-50-8	
Lead	5.72	mg/kg	0.22	6020	05/04/12 15:59	PER	7439-92-1	
Manganese	294	mg/kg	0.22	6020	05/04/12 15:59	PER	7439-96-5	
Mercury	0.0144	mg/kg	0.0058	7471A	05/04/12 13:54	JRT	7439-97-6	
Nickel	7.04	mg/kg	0.22	6020	05/04/12 15:59	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.22	6020	05/04/12 15:59	PER	7782-49-2	
Silver	Not detected	mg/kg	0.11	6020	05/04/12 15:59	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.22	6020	05/04/12 15:59	PER	7440-28-0	
Vanadium	6.25	mg/kg	0.22	6020	05/04/12 15:59	PER	7440-62-2	
Zinc	12.9	mg/kg	1.1	6020	05/04/12 15:59	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	8	8082A	05/02/12 16:29	JANB	12674-11-2	Y
PCB-1242	100	ug/kg	8	8082A	05/02/12 16:29	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	8	8082A	05/02/12 16:29	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	8	8082A	05/02/12 16:29	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	8	8082A	05/02/12 16:29	JANB	12672-29-6	Y
PCB-1254	Not detected	ug/kg	8	8082A	05/02/12 16:29	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	8	8082A	05/02/12 16:29	JANB	11096-82-5	Y

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	208-96-8	

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.24 (continued)

Sample Tag: SB-A5.2-NW124_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	98-86-2	
Anthracene	40	ug/kg	40	8270C	05/03/12 15:16	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 15:16	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/03/12 15:16	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 15:16	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/03/12 15:16	PL	117-81-7	
Fluoranthene	40	ug/kg	40	8270C	05/03/12 15:16	PL	206-44-0	
Fluorene	160	ug/kg	40	8270C	05/03/12 15:16	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/03/12 15:16	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	88-75-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.24 (continued)

Sample Tag: SB-A5.2-NW124_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 15:16	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	87-86-5	
Phenanthrene	210	ug/kg	40	8270C	05/03/12 15:16	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	108-95-2	
Pyrene	50	ug/kg	40	8270C	05/03/12 15:16	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 15:16	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.25
Sample Tag: SB-A5.2-DUP01
Collected Date/Time: 05/01/2012 00:01
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/02/12 16:44	CCM		
Extraction, PCB	Completed			3550B	05/02/12 14:18	CCM		
Mercury Digestion	Completed			7471A	05/03/12 14:20	JRH		
Metal Digestion	Completed			3050B	05/03/12 10:00	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	05/01/12 16:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.23	6020	05/04/12 16:02	PER	7440-36-0	
Arsenic	1.52	mg/kg	0.11	6020	05/04/12 16:02	PER	7440-38-2	
Barium	27.3	mg/kg	1.1	6020	05/04/12 16:02	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.23	6020	05/04/12 16:02	PER	7440-41-7	
Boron	Not detected	mg/kg	4.6	6020	05/04/12 16:02	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.11	6020	05/04/12 16:02	PER	7440-43-9	
Chromium	3.17	mg/kg	0.23	6020	05/04/12 16:02	PER	7440-47-3	
Cobalt	2.15	mg/kg	0.23	6020	05/04/12 16:02	PER	7440-48-4	
Copper	7.05	mg/kg	0.23	6020	05/04/12 16:02	PER	7440-50-8	
Lead	5.42	mg/kg	0.23	6020	05/04/12 16:02	PER	7439-92-1	
Manganese	217	mg/kg	0.23	6020	05/04/12 16:02	PER	7439-96-5	
Mercury	0.0166	mg/kg	0.0059	7471A	05/04/12 13:56	JRT	7439-97-6	
Nickel	5.40	mg/kg	0.23	6020	05/04/12 16:02	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.23	6020	05/04/12 16:02	PER	7782-49-2	
Silver	Not detected	mg/kg	0.11	6020	05/04/12 16:02	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.23	6020	05/04/12 16:02	PER	7440-28-0	
Vanadium	6.42	mg/kg	0.23	6020	05/04/12 16:02	PER	7440-62-2	
Zinc	10.4	mg/kg	1.1	6020	05/04/12 16:02	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	8	8082A	05/03/12 15:05	JANB	12674-11-2	Y
PCB-1242	100	ug/kg	8	8082A	05/03/12 15:05	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	8	8082A	05/03/12 15:05	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	8	8082A	05/03/12 15:05	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	8	8082A	05/03/12 15:05	JANB	12672-29-6	Y
PCB-1254	Not detected	ug/kg	8	8082A	05/03/12 15:05	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	8	8082A	05/03/12 15:05	JANB	11096-82-5	Y

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	208-96-8	

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.25 (continued)

Sample Tag: SB-A5.2-DUP01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 15:51	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/03/12 15:51	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 15:51	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/03/12 15:51	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	206-44-0	
Fluorene	70	ug/kg	40	8270C	05/03/12 15:51	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/03/12 15:51	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	88-75-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.25 (continued)

Sample Tag: SB-A5.2-DUP01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 15:51	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	87-86-5	
Phenanthrene	110	ug/kg	40	8270C	05/03/12 15:51	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 15:51	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.26

Sample Tag: SB-A5.2-NW124_11-12

Collected Date/Time: 05/01/2012 14:12

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/02/12 16:44	CCM		
Extraction, PCB	Completed			3550B	05/02/12 14:18	CCM		
Mercury Digestion	Completed			7471A	05/03/12 14:20	JRH		
Metal Digestion	Completed			3050B	05/03/12 10:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/01/12 16:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/04/12 16:04	PER	7440-36-0	
Arsenic	0.95	mg/kg	0.10	6020	05/04/12 16:04	PER	7440-38-2	
Barium	26.0	mg/kg	1.0	6020	05/04/12 16:04	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/04/12 16:04	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	05/04/12 16:04	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/04/12 16:04	PER	7440-43-9	
Chromium	3.04	mg/kg	0.21	6020	05/04/12 16:04	PER	7440-47-3	
Cobalt	2.26	mg/kg	0.21	6020	05/04/12 16:04	PER	7440-48-4	
Copper	8.55	mg/kg	0.21	6020	05/04/12 16:04	PER	7440-50-8	
Lead	4.00	mg/kg	0.21	6020	05/04/12 16:04	PER	7439-92-1	
Manganese	234	mg/kg	0.21	6020	05/04/12 16:04	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0056	7471A	05/04/12 13:58	JRT	7439-97-6	
Nickel	7.46	mg/kg	0.21	6020	05/04/12 16:04	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/04/12 16:04	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/04/12 16:04	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/04/12 16:04	PER	7440-28-0	
Vanadium	4.78	mg/kg	0.21	6020	05/04/12 16:04	PER	7440-62-2	
Zinc	11.4	mg/kg	1.0	6020	05/04/12 16:04	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/03/12 16:15	JANB	12674-11-2	
PCB-1242	20	ug/kg	3	8082A	05/03/12 16:15	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/03/12 16:15	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/03/12 16:15	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/03/12 16:15	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/03/12 16:15	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/03/12 16:15	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.26 (continued)

Sample Tag: SB-A5.2-NW124_11-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 16:25	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	108-60-1	
Chrysene	60	ug/kg	40	8270C	05/03/12 16:25	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/03/12 16:25	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 16:25	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/03/12 16:25	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/03/12 16:25	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52359.26 (continued)

Sample Tag: SB-A5.2-NW124_11-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 16:25	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 16:25	PL	88-06-2	

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Send Results to:	Contact & Company Name: Randy Christensen / ARCADIS		Telephone: 810-225-1940		Preservative:													
	Address: 10559 Citation Dr., Suite 100		Fax: 810-229-8837		Filtered (✓):													
	City: Brighton, MI 48116		E-mail Address: Randy.Christensen@arcadis-us.com		# of Containers:													
	Project Name/Location (City, State): RACER Trail / Lansing, MI		Project #: 80064479.2012.00105		Container Information:													
Sampler's Printed Name: Austin Westhuis		Sampler's Signature: <i>Austin Westhuis</i>		PARAMETER ANALYSIS & METHOD SWOCs SWOCs PCBs PCBs Metals Metals 1,4 dioxane Sing Hold 1,4 dioxane Sing Hold VOCs VOCs														
Sample ID		Collection																Type (✓)
		Date	Time	Comp	Grab													
01	SB-A5.2-NV133-18-19	4-30-12	1621		X	SO	REMARKS * Hold samples for 1,4 dioxane * Make sure to include dry weight with 4oz soil jars * Note: All water sample parameter analysis for SWOCs, PCBs, and metals are field filtered (dissolved) Lab supplied Trip Blank											
02	SB-A5.2-NV133-23-24	4-30-12	1646		X	SO												
03	SB-A5.2-NV133-28-29	4-30-12	1705		X	SO												
04	VAP-A5.2-NV137-29-30	4/3/12	1720		X	SO												
05	VAP-A5.2-NV137-34-35	5/1/12	0915		X	SO												
06	VAP-A5.2-NV137-39-40	5/1/12	0935		X	SO												
07	VAP-A5.2-NV137-44-45	5/1/12	0940		X	SO												
08	VAP-A5.2-NV137-48-49	5/1/12	1020		X	SO												
09	VAP-A5.2-NV137-54-55	5/1/12	1100		X	SO												
10	VAP-A5.2-NV137-57-58	5/1/12	1115		X	SO												
11	VAP-A5.2-NV137-74-76	4/24/12	1600		X	W												
12	VAP-A5.2-NV137-15-18	5/1/12	1300		X	W												
13	Trip Blank	—	—		X	W												

Special Instructions/Comments: ☐ Special QA/QC Instructions (✓):

Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By		Laboratory Received By	
Lab Name: Merit	Cooler Custody Seal (✓)	Printed Name: Austin Westhuis	Printed Name: Tim Glas	Printed Name:	Printed Name:	Printed Name:	Printed Name: ANDREW Ball		
☒ Cooler packed with ice (✓)	☐ Intact ☐ Not Intact	Signature: <i>Austin Westhuis</i>	Signature: <i>Tim Glas</i>	Signature:	Signature:	Signature:	Signature: <i>Andrew Ball</i>		
Specify Turnaround Requirements: Standard	Sample Receipt:	Firm: ARCADIS	Firm/Courier: Merit	Firm/Courier:	Firm/Courier:	Firm/Courier:	Firm: Merit		
Shipping Tracking #:	Condition/Cooler Temp:	Date/Time: 5/1/12 1415	Date/Time: 5-1-12 1415	Date/Time:	Date/Time:	Date/Time:	Date/Time: 30 MAY 12 1335		



Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1Project Number/Name B064179, 2012, 00105Project Location RALER - Lansing, MILaboratory MeritProject Manager Randy ChristensenSampler(s)/Affiliation C. Barton / Arcadis

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	VOCs	Metals	PCB	Remarks	Total
SB-AS.2-NZ138-1-2	S	5/1/12 0855		X	X	X		
SB-AS.2-NZ128-1-2	S	5/1/12 0950		X	X	X		
SB-AS.2-NZ128-4-5	S	5/1/12 1015		X	X	X		
SB-AS.2-NZ128-6-7-8	S	5/1/12 1015		X	X	X		
SB-AS.2-NZ128-11-12	S	5/1/12 1040		X	X	X		
SB-AS.2-NZ128-16-17	S	5/1/12 1155		X	X	X		
SB-AS.2-NZ128-20-21	S	5/1/12 1207		X	X	X		
SB-AS.2-NZ128-25-26	S	5/1/12 1220		X	X	X		
SB-AS.2-NW124-1-2	S	5/1/12 1320		X	X	X		
SB-AS.2-NW124-4-5	S	5/1/12 1340		X	X	X		
SB-AS.2-NW124-7-8	S	5/1/12 1352		X	X	X		
SB-AS.2-DUP01	S			X	X	X		
SB-AS.2-NW124-11-12	S	5/1/12 1412		X	X	X		

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/
Containers

Relinquished by: <u>[Signature]</u>	Organization: <u>Arcadis</u>	Date: <u>5/1/12</u>	Time: <u>1415</u>	Seal Intact?
Received by: <u>[Signature]</u>	Organization: <u>Merit</u>	Date: <u>5/1/12</u>	Time: <u>1415</u>	Yes No N/A
Relinquished by: <u>[Signature]</u>	Organization: <u>Merit</u>	Date: <u>5/1/12</u>	Time: <u>1535</u>	Seal Intact?
Received by: <u>[Signature]</u>	Organization: <u>Merit</u>	Date: <u>5/1/12</u>	Time: <u>1535</u>	Yes No N/A

Special Instructions/Remarks:

Delivery Method: ☐ In Person☐ Common Carrier☐ Lab Courier☐ Other

SPECIFY

SPECIFY

AG 05-12/01



Analytical Laboratory Report

Revised Report

Report ID: S52362.01(02)

Generated on 05/21/2012

Replaces report S52362.01(01) generated on 05/08/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52362.01-S52362.03

Project: B0064479.2012.00105

Collected Date: 05/01/2012

Submitted Date/Time: 05/02/2012 10:35

Sampled by: Austin Westheris

P.O. #: PO125047

PCB reporting limit lowered

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Revised Report

Sample Summary (3 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52362.01	VAP-A5.2-OE129_7-8	Soil	05/01/2012 16:10
S52362.02	VAP-A5.2-Dup#2	Soil	05/01/2012 00:01
S52362.03	VAP-A5.2-OE129_12-13	Soil	05/01/2012 16:15



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52362.01

Sample Tag: VAP-A5.2-OE129_7-8

Collected Date/Time: 05/01/2012 16:10

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/02/12 16:44	CCM		
Extraction, PCB	Completed			3550B	05/02/12 14:18	CCM		
Mercury Digestion	Completed			7471A	05/04/12 10:30	JRH		
Metal Digestion	Completed			3050B	05/03/12 10:00	PER		

Inorganics

Total Solids	84	%	1	Std M 2540 B	05/02/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.22	6020	05/04/12 16:07	PER	7440-36-0	
Arsenic	0.60	mg/kg	0.11	6020	05/04/12 16:07	PER	7440-38-2	
Barium	8.72	mg/kg	1.1	6020	05/04/12 16:07	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.22	6020	05/04/12 16:07	PER	7440-41-7	
Boron	Not detected	mg/kg	4.5	6020	05/04/12 16:07	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.11	6020	05/04/12 16:07	PER	7440-43-9	
Chromium	1.36	mg/kg	0.22	6020	05/04/12 16:07	PER	7440-47-3	
Cobalt	1.11	mg/kg	0.22	6020	05/04/12 16:07	PER	7440-48-4	
Copper	1.85	mg/kg	0.22	6020	05/04/12 16:07	PER	7440-50-8	
Lead	1.83	mg/kg	0.22	6020	05/04/12 16:07	PER	7439-92-1	
Manganese	143	mg/kg	0.22	6020	05/04/12 16:07	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0059	7471A	05/04/12 14:57	JRT	7439-97-6	
Nickel	3.95	mg/kg	0.22	6020	05/04/12 16:07	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.22	6020	05/04/12 16:07	PER	7782-49-2	
Silver	Not detected	mg/kg	0.11	6020	05/04/12 16:07	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.22	6020	05/04/12 16:07	PER	7440-28-0	
Vanadium	2.21	mg/kg	0.22	6020	05/04/12 16:07	PER	7440-62-2	
Zinc	3.11	mg/kg	1.1	6020	05/04/12 16:07	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/03/12 16:25	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/03/12 16:25	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/03/12 16:25	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/03/12 16:25	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/03/12 16:25	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/03/12 16:25	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/03/12 16:25	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52362.01 (continued)

Sample Tag: VAP-A5.2-OE129_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 17:00	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/03/12 17:00	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 17:00	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	180	ug/kg	80	8270C	05/03/12 17:00	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/03/12 17:00	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52362.01 (continued)

Sample Tag: VAP-A5.2-OE129_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 17:00	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 17:00	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52362.02
Sample Tag: VAP-A5.2-Dup#2
Collected Date/Time: 05/01/2012 00:01
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/02/12 16:44	CCM		
Extraction, PCB	Completed			3550B	05/02/12 14:18	CCM		
Mercury Digestion	Completed			7471A	05/04/12 10:30	JRH		
Metal Digestion	Completed			3050B	05/03/12 10:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/02/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/04/12 16:09	PER	7440-36-0	
Arsenic	0.66	mg/kg	0.10	6020	05/04/12 16:09	PER	7440-38-2	
Barium	40.7	mg/kg	1.0	6020	05/04/12 16:09	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/04/12 16:09	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/04/12 16:09	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/04/12 16:09	PER	7440-43-9	
Chromium	2.74	mg/kg	0.21	6020	05/04/12 16:09	PER	7440-47-3	
Cobalt	1.59	mg/kg	0.21	6020	05/04/12 16:09	PER	7440-48-4	
Copper	6.05	mg/kg	0.21	6020	05/04/12 16:09	PER	7440-50-8	
Lead	21.7	mg/kg	0.21	6020	05/04/12 16:09	PER	7439-92-1	
Manganese	123	mg/kg	0.21	6020	05/04/12 16:09	PER	7439-96-5	
Mercury	0.0068	mg/kg	0.0058	7471A	05/04/12 14:52	JRT	7439-97-6	
Nickel	6.09	mg/kg	0.21	6020	05/04/12 16:09	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/04/12 16:09	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/04/12 16:09	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/04/12 16:09	PER	7440-28-0	
Vanadium	5.11	mg/kg	0.21	6020	05/04/12 16:09	PER	7440-62-2	
Zinc	15.1	mg/kg	1.0	6020	05/04/12 16:09	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	30	8082A	05/03/12 14:40	JANB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	30	8082A	05/03/12 14:40	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	30	8082A	05/03/12 14:40	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	30	8082A	05/03/12 14:40	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	30	8082A	05/03/12 14:40	JANB	12672-29-6	Y
PCB-1254	400	ug/kg	30	8082A	05/03/12 14:40	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	30	8082A	05/03/12 14:40	JANB	11096-82-5	Y

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	208-96-8	

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52362.02 (continued)

Sample Tag: VAP-A5.2-Dup#2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 17:34	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/03/12 17:34	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 17:34	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	100	ug/kg	80	8270C	05/03/12 17:34	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/03/12 17:34	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	88-75-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52362.02 (continued)

Sample Tag: VAP-A5.2-Dup#2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 17:34	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 17:34	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52362.03

Sample Tag: VAP-A5.2-OE129_12-13

Collected Date/Time: 05/01/2012 16:15

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/02/12 16:44	CCM		
Extraction, PCB	Completed			3550B	05/02/12 14:18	CCM		
Mercury Digestion	Completed			7471A	05/04/12 10:30	JRH		
Metal Digestion	Completed			3050B	05/03/12 10:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/02/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/04/12 16:12	PER	7440-36-0	
Arsenic	0.65	mg/kg	0.10	6020	05/04/12 16:12	PER	7440-38-2	
Barium	17.0	mg/kg	1.0	6020	05/04/12 16:12	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/04/12 16:12	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/04/12 16:12	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/04/12 16:12	PER	7440-43-9	
Chromium	2.20	mg/kg	0.21	6020	05/04/12 16:12	PER	7440-47-3	
Cobalt	1.77	mg/kg	0.21	6020	05/04/12 16:12	PER	7440-48-4	
Copper	5.66	mg/kg	0.21	6020	05/04/12 16:12	PER	7440-50-8	
Lead	5.89	mg/kg	0.21	6020	05/04/12 16:12	PER	7439-92-1	
Manganese	168	mg/kg	0.21	6020	05/04/12 16:12	PER	7439-96-5	
Mercury	0.0087	mg/kg	0.0057	7471A	05/04/12 14:55	JRT	7439-97-6	
Nickel	3.46	mg/kg	0.21	6020	05/04/12 16:12	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/04/12 16:12	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/04/12 16:12	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/04/12 16:12	PER	7440-28-0	
Vanadium	4.68	mg/kg	0.21	6020	05/04/12 16:12	PER	7440-62-2	
Zinc	8.00	mg/kg	1.0	6020	05/04/12 16:12	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	8	8082A	05/03/12 14:53	JANB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	8	8082A	05/03/12 14:53	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	8	8082A	05/03/12 14:53	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	8	8082A	05/03/12 14:53	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	8	8082A	05/03/12 14:53	JANB	12672-29-6	Y
PCB-1254	100	ug/kg	8	8082A	05/03/12 14:53	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	8	8082A	05/03/12 14:53	JANB	11096-82-5	Y

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	208-96-8	

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52362.03 (continued)

Sample Tag: VAP-A5.2-OE129_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 18:08	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/03/12 18:08	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 18:08	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	90	ug/kg	80	8270C	05/03/12 18:08	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/03/12 18:08	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	88-75-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52362.03 (continued)

Sample Tag: VAP-A5.2-OE129_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 18:08	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 18:08	PL	88-06-2	

ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page ____ of ____

Lab Work Order #

Send Results to:	Contact & Company Name: Randy Christensen / ARCADIS		Telephone: 810-225-1940		Preservative														Keys Preservation Key: A. H ₂ SO ₄ B. HCL C. HNO ₃ D. NaOH E. None F. Other: _____ G. Other: _____ H. Other: _____ Matrix Key: SO - Soil W - Water T - Tissue SE - Sediment SL - Sludge A - Air Container Information Key: 1. 40 ml Vial 2. 1 L Amber 3. 250 ml Plastic 4. 500 ml Plastic 5. Encore 6. 2 oz. Glass 7. 4 oz. Glass 8. 8 oz. Glass 9. Other: _____ 10. Other: _____ NL - NAPL/Oil SW - Sample Wipe Other: _____	
	Address: 10559 Citation Dr., Suite 100		Fax: 810-229-8837		# of Containers															
	City: Brighton, MI State: MI Zip: 48116		E-mail Address: Randy.Christensen@arcadis-us.com		Container Information															
	Project Name/Location (City, State): RACER Trust / Lansing, MI		Project #: B06164479.2012.00105																	
Sampler's Printed Name: Austin Westhuis		Sampler's Signature: <i>[Signature]</i>																		
Sample ID		Collection		Type (✓)		Matrix		1,4 dioxane Sims (Hold) SVOC PCB Metals												
		Date	Time	Comp	Grab															
.01 VAP-A5.2-05129-7-8		5/1/12	1610		X	SO	REMARKS ★ Hold samples for 1,4-dioxane ★ Note: Water samples for SVOC's, PCB's, and metals are field filtered (dissolved).													
.02 VAP-A5.2-Dup # 2		5/1/12	—		X	SO														
.03 VAP-A5.2-05129-12-13		5/1/12	1615		X	SO														
Special Instructions/Comments: _____ ☐ Special QA/QC Instructions(✓):																				

Laboratory Information and Receipt		Relinquished By	Received By	Relinquished By	Laboratory Received By
Lab Name: Merit	Cooler Custody Seal (✓)	Printed Name: Austin Westhuis	Printed Name: Tim Gleas	Printed Name:	Printed Name: Andrew Ball
☒ Cooler packed with ice (✓)	☐ Intact ☐ Not Intact	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature:	Signature: <i>[Signature]</i>
Specify Turnaround Requirements: Standard	Sample Receipt:	Firm: ARCADIS	Firm/Courier: Merit	Firm/Courier:	Firm: Merit
Shipping Tracking #:	Condition/Cooler Temp: 4.4	Date/Time: 5/2/12 0925	Date/Time: 5-2-12 925	Date/Time:	Date/Time: 02 MAY 12 1035



Analytical Laboratory Report

Revised Report

Report ID: S52363.01(02)

Generated on 05/21/2012

Replaces report S52363.01(01) generated on 05/11/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52363.01-S52363.05

Project: B0064479.2012.00105

Collected Date: 05/01/2012

Submitted Date/Time: 05/02/2012 10:35

Sampled by: C. Barton

P.O. #: PO125047

PCB reporting limit lowered

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Revised Report

Sample Summary (5 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52363.01	SB-A5.2-NW124_22-23	Soil	05/01/2012 14:42
S52363.02	SB-A5.2-NW124_16-17	Soil	05/01/2012 14:25
S52363.03	SB-A5.2-NR128_1-2	Soil	05/01/2012 16:14
S52363.04	SB-A5.2-NR128_3-4	Soil	05/01/2012 16:23
S52363.05	SB-A5.2-NR128_8-9	Soil	05/01/2012 17:22



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52363.01

Sample Tag: SB-A5.2-NW124_22-23

Collected Date/Time: 05/01/2012 14:42

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/02/12 16:44	CCM		
Extraction, PCB	Completed			3550B	05/02/12 14:18	CCM		
Mercury Digestion	Completed			7471A	05/04/12 10:30	JRH		
Metal Digestion	Completed			3050B	05/10/12 10:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/02/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 14:01	PER	7440-36-0	
Arsenic	1.61	mg/kg	0.10	6020	05/10/12 14:01	PER	7440-38-2	
Barium	9.07	mg/kg	1.0	6020	05/10/12 14:01	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 14:01	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 14:01	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 14:01	PER	7440-43-9	
Chromium	0.90	mg/kg	0.20	6020	05/10/12 14:01	PER	7440-47-3	
Cobalt	0.75	mg/kg	0.20	6020	05/10/12 14:01	PER	7440-48-4	
Copper	3.03	mg/kg	0.20	6020	05/10/12 14:01	PER	7440-50-8	
Lead	1.83	mg/kg	0.20	6020	05/10/12 14:01	PER	7439-92-1	
Manganese	116	mg/kg	0.20	6020	05/10/12 14:01	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0055	7471A	05/04/12 14:41	JRT	7439-97-6	
Nickel	2.77	mg/kg	0.20	6020	05/10/12 14:01	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 14:01	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 14:01	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 14:01	PER	7440-28-0	
Vanadium	1.64	mg/kg	0.20	6020	05/10/12 14:01	PER	7440-62-2	
Zinc	4.29	mg/kg	1.0	6020	05/10/12 14:01	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/03/12 16:36	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/03/12 16:36	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/03/12 16:36	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/03/12 16:36	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/03/12 16:36	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/03/12 16:36	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/03/12 16:36	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52363.01 (continued)

Sample Tag: SB-A5.2-NW124_22-23

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 18:42	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/03/12 18:42	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 18:42	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/03/12 18:42	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/03/12 18:42	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52363.01 (continued)

Sample Tag: SB-A5.2-NW124_22-23

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 18:42	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 18:42	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52363.02

Sample Tag: SB-A5.2-NW124_16-17

Collected Date/Time: 05/01/2012 14:25

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/02/12 16:44	CCM		
Extraction, PCB	Completed			3550B	05/02/12 14:18	CCM		
Mercury Digestion	Completed			7471A	05/04/12 10:30	JRH		
Metal Digestion	Completed			3050B	05/10/12 10:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/02/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 14:06	PER	7440-36-0	
Arsenic	1.70	mg/kg	0.10	6020	05/10/12 14:06	PER	7440-38-2	
Barium	34.1	mg/kg	1.0	6020	05/10/12 14:06	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 14:06	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 14:06	PER	7440-42-8	
Cadmium	0.12	mg/kg	0.10	6020	05/10/12 14:06	PER	7440-43-9	
Chromium	2.78	mg/kg	0.20	6020	05/10/12 14:06	PER	7440-47-3	
Cobalt	2.75	mg/kg	0.20	6020	05/10/12 14:06	PER	7440-48-4	
Copper	10.3	mg/kg	0.20	6020	05/10/12 14:06	PER	7440-50-8	
Lead	4.65	mg/kg	0.20	6020	05/10/12 14:06	PER	7439-92-1	
Manganese	282	mg/kg	0.20	6020	05/10/12 14:06	PER	7439-96-5	
Mercury	0.0108	mg/kg	0.0056	7471A	05/04/12 14:43	JRT	7439-97-6	
Nickel	8.30	mg/kg	0.20	6020	05/10/12 14:06	PER	7440-02-0	
Selenium	0.24	mg/kg	0.20	6020	05/10/12 14:06	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 14:06	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 14:06	PER	7440-28-0	
Vanadium	4.85	mg/kg	0.20	6020	05/10/12 14:06	PER	7440-62-2	
Zinc	11.6	mg/kg	1.0	6020	05/10/12 14:06	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/03/12 16:46	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/03/12 16:46	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/03/12 16:46	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/03/12 16:46	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/03/12 16:46	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/03/12 16:46	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/03/12 16:46	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	98-86-2	



Analytical Laboratory Report

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Lab Sample ID: S52363.02 (continued)

Sample Tag: SB-A5.2-NW124_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 19:16	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/03/12 19:16	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 19:16	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/03/12 19:16	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/03/12 19:16	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52363.02 (continued)

Sample Tag: SB-A5.2-NW124_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/03/12 19:16	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 19:16	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52363.03

Sample Tag: SB-A5.2-NR128_1-2

Collected Date/Time: 05/01/2012 16:14

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/02/12 16:44	CCM		
Extraction, PCB	Completed			3550B	05/02/12 14:18	CCM		
Mercury Digestion	Completed			7471A	05/04/12 10:30	JRH		
Metal Digestion	Completed			3050B	05/10/12 10:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	05/02/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 14:09	PER	7440-36-0	
Arsenic	0.90	mg/kg	0.10	6020	05/10/12 14:09	PER	7440-38-2	
Barium	27.7	mg/kg	1.0	6020	05/10/12 14:09	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 14:09	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 14:09	PER	7440-42-8	
Cadmium	0.30	mg/kg	0.10	6020	05/10/12 14:09	PER	7440-43-9	
Chromium	6.53	mg/kg	0.20	6020	05/10/12 14:09	PER	7440-47-3	
Cobalt	1.68	mg/kg	0.20	6020	05/10/12 14:09	PER	7440-48-4	
Copper	41.2	mg/kg	0.20	6020	05/10/12 14:09	PER	7440-50-8	
Lead	30.6	mg/kg	0.20	6020	05/10/12 14:09	PER	7439-92-1	
Manganese	204	mg/kg	0.20	6020	05/10/12 14:09	PER	7439-96-5	
Mercury	0.0278	mg/kg	0.0054	7471A	05/04/12 14:46	JRT	7439-97-6	
Nickel	13.2	mg/kg	0.20	6020	05/10/12 14:09	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 14:09	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 14:09	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 14:09	PER	7440-28-0	
Vanadium	4.12	mg/kg	0.20	6020	05/10/12 14:09	PER	7440-62-2	
Zinc	38.9	mg/kg	1.0	6020	05/10/12 14:09	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	130	8082A	05/03/12 16:04	JANB	12674-11-2	Y
PCB-1242	2,400	ug/kg	130	8082A	05/03/12 16:04	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	130	8082A	05/03/12 16:04	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	130	8082A	05/03/12 16:04	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	130	8082A	05/03/12 16:04	JANB	12672-29-6	Y
PCB-1254	Not detected	ug/kg	130	8082A	05/03/12 16:04	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	130	8082A	05/03/12 16:04	JANB	11096-82-5	Y

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,000	ug/kg	1,000	8270C	05/03/12 20:24	PL	83-32-9	X
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Y-Elevated reporting limit due to high target concentration

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52363.03 (continued)

Sample Tag: SB-A5.2-NR128_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acenaphthylene	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	98-86-2	X
Anthracene	2,000	ug/kg	1,000	8270C	05/03/12 20:24	PL	120-12-7	X
Atrazine	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	05/03/12 20:24	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	100-52-7	X
Benzo(a)anthracene	2,000	ug/kg	1,000	8270C	05/03/12 20:24	PL	56-55-3	X
Benzo(a)pyrene	2,000	ug/kg	1,000	8270C	05/03/12 20:24	PL	50-32-8	X
Benzo(b)fluoranthene	4,000	ug/kg	1,000	8270C	05/03/12 20:24	PL	205-99-2	Xp
Benzo(ghi)perylene	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	191-24-2	X
Benzo(k)fluoranthene	4,000	ug/kg	1,000	8270C	05/03/12 20:24	PL	207-08-9	Xp
Butyl benzyl phthalate	1,000	ug/kg	1,000	8270C	05/03/12 20:24	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	105-60-2	X
Carbazole	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	108-60-1	X
Chrysene	3,000	ug/kg	1,000	8270C	05/03/12 20:24	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	05/03/12 20:24	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	05/03/12 20:24	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	3,000	ug/kg	2,000	8270C	05/03/12 20:24	PL	117-81-7	X
Fluoranthene	7,000	ug/kg	1,000	8270C	05/03/12 20:24	PL	206-44-0	X
Fluorene	7,000	ug/kg	1,000	8270C	05/03/12 20:24	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	193-39-5	X
Isophorone	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	95-48-7	X

X-Elevated reporting limit due to matrix interference

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52363.03 (continued)

Sample Tag: SB-A5.2-NR128_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	05/03/12 20:24	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	05/03/12 20:24	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	87-86-5	X
Phenanthrene	8,000	ug/kg	1,000	8270C	05/03/12 20:24	PL	85-01-8	X
Phenol	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	108-95-2	X
Pyrene	6,000	ug/kg	1,000	8270C	05/03/12 20:24	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	1,000	8270C	05/03/12 20:24	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52363.04

Sample Tag: SB-A5.2-NR128_3-4

Collected Date/Time: 05/01/2012 16:23

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/02/12 16:44	CCM		
Extraction, PCB	Completed			3550B	05/02/12 14:18	CCM		
Mercury Digestion	Completed			7471A	05/04/12 10:30	JRH		
Metal Digestion	Completed			3050B	05/10/12 10:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/02/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 14:11	PER	7440-36-0	
Arsenic	1.15	mg/kg	0.10	6020	05/10/12 14:11	PER	7440-38-2	
Barium	9.81	mg/kg	1.0	6020	05/10/12 14:11	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 14:11	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 14:11	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 14:11	PER	7440-43-9	
Chromium	1.62	mg/kg	0.20	6020	05/10/12 14:11	PER	7440-47-3	
Cobalt	1.42	mg/kg	0.20	6020	05/10/12 14:11	PER	7440-48-4	
Copper	9.10	mg/kg	0.20	6020	05/10/12 14:11	PER	7440-50-8	
Lead	6.09	mg/kg	0.20	6020	05/10/12 14:11	PER	7439-92-1	
Manganese	205	mg/kg	0.20	6020	05/10/12 14:11	PER	7439-96-5	
Mercury	0.0103	mg/kg	0.0057	7471A	05/04/12 14:48	JRT	7439-97-6	
Nickel	4.57	mg/kg	0.20	6020	05/10/12 14:11	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 14:11	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 14:11	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 14:11	PER	7440-28-0	
Vanadium	2.58	mg/kg	0.20	6020	05/10/12 14:11	PER	7440-62-2	
Zinc	14.3	mg/kg	1.0	6020	05/10/12 14:11	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	50	8082A	05/03/12 14:29	JANB	12674-11-2	Y
PCB-1242	500	ug/kg	50	8082A	05/03/12 14:29	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	50	8082A	05/03/12 14:29	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	50	8082A	05/03/12 14:29	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	50	8082A	05/03/12 14:29	JANB	12672-29-6	Y
PCB-1254	Not detected	ug/kg	50	8082A	05/03/12 14:29	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	50	8082A	05/03/12 14:29	JANB	11096-82-5	Y

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	83-32-9	X
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Y-Elevated reporting limit due to high target concentration

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52363.04 (continued)

Sample Tag: SB-A5.2-NR128_3-4

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acenaphthylene	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	98-86-2	X
Anthracene	1,300	ug/kg	600	8270C	05/03/12 20:57	PL	120-12-7	X
Atrazine	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	1,000	8270C	05/03/12 20:57	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	105-60-2	X
Carbazole	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	108-60-1	X
Chrysene	800	ug/kg	600	8270C	05/03/12 20:57	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	1,000	8270C	05/03/12 20:57	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	1,000	8270C	05/03/12 20:57	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	1,000	8270C	05/03/12 20:57	PL	117-81-7	X
Fluoranthene	1,700	ug/kg	600	8270C	05/03/12 20:57	PL	206-44-0	X
Fluorene	2,700	ug/kg	600	8270C	05/03/12 20:57	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	193-39-5	X
Isophorone	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	1,000	8270C	05/03/12 20:57	PL	3/4-Cresol	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52363.04 (continued)

Sample Tag: SB-A5.2-NR128_3-4

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	1,000	8270C	05/03/12 20:57	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	87-86-5	X
Phenanthrene	4,200	ug/kg	600	8270C	05/03/12 20:57	PL	85-01-8	X
Phenol	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	108-95-2	X
Pyrene	2,100	ug/kg	600	8270C	05/03/12 20:57	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	600	8270C	05/03/12 20:57	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52363.05

Sample Tag: SB-A5.2-NR128_8-9

Collected Date/Time: 05/01/2012 17:22

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/02/12 16:44	CCM		
Extraction, PCB	Completed			3550B	05/02/12 14:18	CCM		
Mercury Digestion	Completed			7471A	05/04/12 10:30	JRH		
Metal Digestion	Completed			3050B	05/10/12 10:00	PER		

Inorganics

Total Solids	81	%	1	Std M 2540 B	05/02/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 14:13	PER	7440-36-0	
Arsenic	0.34	mg/kg	0.10	6020	05/10/12 14:13	PER	7440-38-2	
Barium	34.0	mg/kg	1.0	6020	05/10/12 14:13	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 14:13	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 14:13	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 14:13	PER	7440-43-9	
Chromium	2.49	mg/kg	0.20	6020	05/10/12 14:13	PER	7440-47-3	
Cobalt	1.01	mg/kg	0.20	6020	05/10/12 14:13	PER	7440-48-4	
Copper	5.55	mg/kg	0.20	6020	05/10/12 14:13	PER	7440-50-8	
Lead	5.79	mg/kg	0.20	6020	05/10/12 14:13	PER	7439-92-1	
Manganese	47.3	mg/kg	0.20	6020	05/10/12 14:13	PER	7439-96-5	
Mercury	0.0206	mg/kg	0.0061	7471A	05/04/12 14:50	JRT	7439-97-6	
Nickel	2.08	mg/kg	0.20	6020	05/10/12 14:13	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 14:13	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 14:13	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 14:13	PER	7440-28-0	
Vanadium	5.43	mg/kg	0.20	6020	05/10/12 14:13	PER	7440-62-2	
Zinc	9.67	mg/kg	1.0	6020	05/10/12 14:13	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	8	8082A	05/03/12 15:16	JANB	12674-11-2	Y
PCB-1242	100	ug/kg	8	8082A	05/03/12 15:16	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	8	8082A	05/03/12 15:16	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	8	8082A	05/03/12 15:16	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	8	8082A	05/03/12 15:16	JANB	12672-29-6	Y
PCB-1254	Not detected	ug/kg	8	8082A	05/03/12 15:16	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	8	8082A	05/03/12 15:16	JANB	11096-82-5	Y

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	208-96-8	

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52363.05 (continued)

Sample Tag: SB-A5.2-NR128_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	98-86-2	
Anthracene	120	ug/kg	40	8270C	05/03/12 19:50	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	1912-24-9	
1,1'-Biphenyl	40	ug/kg	40	8270C	05/03/12 19:50	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 19:50	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	108-60-1	
Chrysene	90	ug/kg	40	8270C	05/03/12 19:50	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/03/12 19:50	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 19:50	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/03/12 19:50	PL	117-81-7	
Fluoranthene	150	ug/kg	40	8270C	05/03/12 19:50	PL	206-44-0	
Fluorene	320	ug/kg	40	8270C	05/03/12 19:50	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	78-59-1	
2-Methylnaphthalene	60	ug/kg	40	8270C	05/03/12 19:50	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/03/12 19:50	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	88-75-5	



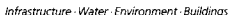
Analytical Laboratory Report

Revised Report

Lab Sample ID: S52363.05 (continued)

Sample Tag: SB-A5.2-NR128_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/03/12 19:50	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	87-86-5	
Phenanthrene	570	ug/kg	40	8270C	05/03/12 19:50	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	108-95-2	
Pyrene	190	ug/kg	40	8270C	05/03/12 19:50	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/03/12 19:50	PL	88-06-2	



ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 1 of 1

Lab Work Order #

Send Results to:	Contact & Company Name: Randy Christensen Arcadis	Telephone: 810-225-1940	Preservative									Preservation Key: A. H ₂ SO ₄ B. HCL C. HNO ₃ D. NaOH E. None F. Other: _____ G. Other: _____ H. Other: _____ Matrix Key: SO - Soil W - Water T - Tissue SE - Sediment SL - Sludge A - Air Container Information Key: 1. 40 ml Vial 2. 1 L Amber 3. 250 ml Plastic 4. 500 ml Plastic 5. Encore 6. 2 oz. Glass 7. 4 oz. Glass 8. 8 oz. Glass 9. Other: _____ 10. Other: _____ NL - NAPL/Oil SW - Sample Wipe Other: _____
	Address: 10559 Citation Dr. Suite 100	Fax: 810-229-8837	# of Containers									
	City Brighton MI	E-mail Address: Randy.Christensen@arcadis-us.com	Container Information									
	State MI	Project #: B0064479.2012.00105	PARAMETER ANALYSIS & METHOD									
	Zip 48116	Sampler's Signature: C. Barton										
	Project Name/Location (City, State): RACER/Lansing, MI											
Sample ID			Collection		Type (✓)							
Date	Time	Comp	Grab	Matrix								
SB-A5.2-NW124-22-23	5-1-12	1442	X	SO	X	X	X					
SB-A5.2-NW124-16-17	5-1-12	1425	X	SO	X	X	X					
SB A5.2-NR128-1-2	5-1-12	1614	X	SD	X	X	X					
SB A5.2-NR128-3-4	5-1-12	1623	X	SD	X	X	X					
SB-A5.2-NR128-8-9	5-1-12	1722	X	SD	X	X	X					
Special Instructions/Comments:												
☐ Special QA/QC Instructions(✓):												
Laboratory Information and Receipt												
Lab Name: Merit	Cooler Custody Seal (✓) ☒ Intact ☐ Not Intact	Relinquished By Printed Name: Austin Westgren Signature: [Signature] Firm: ARCADIS Date/Time: 5/2/12 0925	Received By Printed Name: Jim Glees Signature: [Signature] Firm/Courier: Merit Date/Time: 5/2/12 / 925	Relinquished By Printed Name: [Blank] Signature: [Blank] Firm/Courier: [Blank] Date/Time: [Blank]	Laboratory Received By Printed Name: ANDREW BALL Signature: [Signature] Firm: Merit Date/Time: 02 MAY 12 1035							
Specify Turnaround Requirements: Standard	Sample Receipt: Condition/Cooler Temp: 4.4											
Shipping Tracking #:												



Analytical Laboratory Report

Report ID: S52380.01(01)
Generated on 05/03/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52380.01-S52380.04
Project: B0064479.2012.00105/ Lansing Plant 2
Collected Date: 05/01/2012 - 05/02/2012
Submitted Date/Time: 05/03/2012 09:05
Sampled by: Meryl Hicks
P.O. #: PO124047

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (4 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52380.01	VAP-A5.2-NU137_16-18	Groundwater	05/01/2012 13:00
S52380.02	SB-A5.2-NZ128_11-12	Soil	05/01/2012 10:40
S52380.03	VAP-A5.2-NV119_6-7	Soil	05/02/2012 16:15
S52380.04	SB-A5.2-NZ128_6.5-7.5	Soil	05/01/2012 10:15



Analytical Laboratory Report

Lab Sample ID: S52380.01
Sample Tag: VAP-A5.2-NU137_16-18
Collected Date/Time: 05/01/2012 13:00
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	76-13-1	
Acetone	Not detected	ug/L	10	8260B	05/03/12 10:20	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	05/03/12 10:20	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	05/03/12 10:20	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	74-83-9	
Chloroethane	3	ug/L	1	8260B	05/03/12 10:20	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	05/03/12 10:20	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	05/03/12 10:20	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	56-23-5	
Benzene	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	124-48-1	
Chlorobenzene	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	05/03/12 10:20	JGH		
o-Xylene	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	95-47-6	
Styrene	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	98-82-8	



Analytical Laboratory Report

Lab Sample ID: S52380.01 (continued)

Sample Tag: VAP-A5.2-NU137_16-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Bromoform	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	05/03/12 10:20	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S52380.02
Sample Tag: SB-A5.2-NZ128_11-12
Collected Date/Time: 05/01/2012 10:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	82	%	1	Std M 2540 B	05/01/12 16:30	JGH		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	76-13-1	
Acetone	Not detected	ug/kg	710	5035/8260B	05/03/12 10:19	JGH	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	75-15-0	
Methyl Acetate	Not detected	ug/kg	710	5035/8260B	05/03/12 10:19	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	710	5035/8260B	05/03/12 10:19	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	710	5035/8260B	05/03/12 10:19	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	710	5035/8260B	05/03/12 10:19	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	100-41-4	



Analytical Laboratory Report

Lab Sample ID: S52380.02 (continued)

Sample Tag: SB-A5.2-NZ128_11-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	05/03/12 10:19	JGH		
o-Xylene	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	05/03/12 10:19	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S52380.03
Sample Tag: VAP-A5.2-NV119_6-7
Collected Date/Time: 05/02/2012 16:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	90	%	1	Std M 2540 B	05/03/12 09:45	JGH		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	76-13-1	
Acetone	Not detected	ug/kg	570	5035/8260B	05/03/12 10:21	JGH	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	75-15-0	
Methyl Acetate	Not detected	ug/kg	570	5035/8260B	05/03/12 10:21	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	570	5035/8260B	05/03/12 10:21	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	74-83-9	
Chloroethane	170	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	570	5035/8260B	05/03/12 10:21	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	570	5035/8260B	05/03/12 10:21	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	100-41-4	



Analytical Laboratory Report

Lab Sample ID: S52380.03 (continued)

Sample Tag: VAP-A5.2-NV119_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	05/03/12 10:21	JGH		
o-Xylene	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 10:21	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S52380.04
Sample Tag: SB-A5.2-NZ128_6.5-7.5
Collected Date/Time: 05/01/2012 10:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	81	%	1	Std M 2540 B	05/01/12 16:30	JGH		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	76-13-1	
Acetone	Not detected	ug/kg	760	5035/8260B	05/03/12 10:20	JGH	67-64-1	
Carbon disulfide	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	75-15-0	
Methyl Acetate	Not detected	ug/kg	760	5035/8260B	05/03/12 10:20	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	760	5035/8260B	05/03/12 10:20	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	74-83-9	
Chloroethane	220	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	156-59-2	
Chloroform	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	71-55-6	
Cyclohexane	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	760	5035/8260B	05/03/12 10:20	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	760	5035/8260B	05/03/12 10:20	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	56-23-5	
Benzene	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	10061-01-5	
Toluene	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	106-93-4	
Chlorobenzene	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	79-34-5	
Ethylbenzene	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	100-41-4	



Analytical Laboratory Report

Lab Sample ID: S52380.04 (continued)

Sample Tag: SB-A5.2-NZ128_6.5-7.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
p,m-Xylene	Not detected	ug/kg	200	5035/8260B	05/03/12 10:20	JGH		
o-Xylene	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	95-47-6	
Styrene	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	98-82-8	
Bromoform	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	80	5035/8260B	05/03/12 10:20	JGH	120-82-1	



Analytical Laboratory Report

Revised Report

Report ID: S52381.01(02)

Generated on 05/21/2012

Replaces report S52381.01(01) generated on 05/11/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52381.01-S52381.21

Project: B0064479.2012.00105

Collected Date: 05/02/2012 - 05/03/2012

Submitted Date/Time: 05/03/2012 09:05

Sampled by: Austin Westhmis

P.O. #: PO125047

PCB reporting limit lowered

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Revised Report

Sample Summary (21 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52381.01	VAP-A5.2-OE129_11-13	Water	05/02/2012 08:45
S52381.02	VAP-A5.2-OE129_17-18	Soil	05/02/2012 09:15
S52381.03	VAP-A5.2-OE129_17-18 MS	Soil	05/02/2012 09:15
S52381.04	VAP-A5.2-OE129_17-18 MSD	Soil	05/02/2012 09:15
S52381.05	VAP-A5.2-DUP#5	Soil	05/02/2012 00:01
S52381.06	VAP-A5.2-OE129_22-23	Soil	05/02/2012 10:20
S52381.07	VAP-A5.2-OE129_18.5-19.5	Water	05/02/2012 10:40
S52381.08	VAP-A5.2-DUP#6	Soil	05/02/2012 00:01
S52381.09	VAP-A5.2-OE129_29-30	Soil	05/02/2012 11:40
S52381.10	VAP-A5.2-OE129_36-36.5	Soil	05/02/2012 12:10
S52381.11	VAP-A5.2-OE129_33-34	Soil	05/02/2012 12:20
S52381.12	VAP-A5.2-OE129_41-42	Soil	05/02/2012 12:30
S52381.13	VAP-A5.2-OE129_45-46	Soil	05/02/2012 12:50
S52381.14	VAP-A5.2-OE129_51-52	Soil	05/02/2012 13:20
S52381.15	VAP-A5.2-OE129_58-59	Soil	05/02/2012 13:25
S52381.16	VAP-A5.2-NV119_6-7	Soil	05/02/2012 16:15
S52381.17	VAP-A5.2-NV119_8-9	Soil	05/02/2012 16:35
S52381.18	VAP-A5.2-DUP#7	Soil	05/02/2012 00:01
S52381.19	VAP-A5.2-NV119_8-9	Water	05/02/2012 16:45
S52381.20	Trip Blank	Water	05/03/2012 00:01
S52381.21	VAP-A5.2-NV119_1-2	Soil	05/02/2012 00:01



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.01

Sample Tag: VAP-A5.2-OE129_11-13

Collected Date/Time: 05/02/2012 08:45

Matrix: Water

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Other / Misc.

Hold until notified	Completed				05/04/12 09:00	BJB		
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Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.02
Sample Tag: VAP-A5.2-OE129_17-18
Collected Date/Time: 05/02/2012 09:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/03/12 22:25	EMR		
Extraction, PCB	Completed			3550B	05/04/12 12:26	CCM		
Mercury Digestion	Completed			7471A	05/07/12 14:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 10:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 14:19	PER	7440-36-0	
Arsenic	1.79	mg/kg	0.10	6020	05/10/12 14:19	PER	7440-38-2	
Barium	37.3	mg/kg	1.0	6020	05/10/12 14:19	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 14:19	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 14:19	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 14:19	PER	7440-43-9	
Chromium	3.05	mg/kg	0.20	6020	05/10/12 14:19	PER	7440-47-3	
Cobalt	2.59	mg/kg	0.20	6020	05/10/12 14:19	PER	7440-48-4	
Copper	10.9	mg/kg	0.20	6020	05/10/12 14:19	PER	7440-50-8	
Lead	4.95	mg/kg	0.20	6020	05/10/12 14:19	PER	7439-92-1	
Manganese	309	mg/kg	0.20	6020	05/10/12 14:19	PER	7439-96-5	
Mercury	0.0129	mg/kg	0.0056	7471A	05/08/12 12:57	JRT	7439-97-6	
Nickel	7.96	mg/kg	0.20	6020	05/10/12 14:19	PER	7440-02-0	
Selenium	0.27	mg/kg	0.20	6020	05/10/12 14:19	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 14:19	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 14:19	PER	7440-28-0	
Vanadium	5.02	mg/kg	0.20	6020	05/10/12 14:19	PER	7440-62-2	
Zinc	10.8	mg/kg	1.0	6020	05/10/12 14:19	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/04/12 19:21	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/04/12 19:21	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/04/12 19:21	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/04/12 19:21	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/04/12 19:21	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/04/12 19:21	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/04/12 19:21	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.02 (continued)

Sample Tag: VAP-A5.2-OE129_17-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 13:31	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/07/12 13:31	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 13:31	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/07/12 13:31	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/07/12 13:31	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.02 (continued)

Sample Tag: VAP-A5.2-OE129_17-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 13:31	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 13:31	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.03

Sample Tag: VAP-A5.2-OE129_17-18 MS

Collected Date/Time: 05/02/2012 09:15

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/03/12 22:25	EMR		
Extraction, PCB	Completed			3550B	05/04/12 12:26	CCM		
Mercury Digestion	Completed			7471A	05/07/12 14:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 10:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	20.6	mg/kg	0.20	6020	05/10/12 14:22	PER	7440-36-0	
Arsenic	24.5	mg/kg	0.10	6020	05/10/12 14:22	PER	7440-38-2	
Barium	55.2	mg/kg	1.0	6020	05/10/12 14:22	PER	7440-39-3	
Beryllium	20.0	mg/kg	0.20	6020	05/10/12 14:22	PER	7440-41-7	
Boron	16.9	mg/kg	2.0	6020	05/10/12 14:22	PER	7440-42-8	
Cadmium	20.5	mg/kg	0.10	6020	05/10/12 14:22	PER	7440-43-9	
Chromium	27.3	mg/kg	0.20	6020	05/10/12 14:22	PER	7440-47-3	
Cobalt	25.2	mg/kg	0.20	6020	05/10/12 14:22	PER	7440-48-4	
Copper	31.5	mg/kg	0.20	6020	05/10/12 14:22	PER	7440-50-8	
Lead	24.3	mg/kg	0.20	6020	05/10/12 14:22	PER	7439-92-1	
Manganese	332	mg/kg	0.20	6020	05/10/12 14:22	PER	7439-96-5	
Mercury	0.1283	mg/kg	0.0056	7471A	05/08/12 12:59	JRT	7439-97-6	
Nickel	29.8	mg/kg	0.20	6020	05/10/12 14:22	PER	7440-02-0	
Selenium	19.0	mg/kg	0.20	6020	05/10/12 14:22	PER	7782-49-2	
Silver	19.5	mg/kg	0.10	6020	05/10/12 14:22	PER	7440-22-4	
Thallium	17.6	mg/kg	0.20	6020	05/10/12 14:22	PER	7440-28-0	
Vanadium	29.9	mg/kg	0.20	6020	05/10/12 14:22	PER	7440-62-2	
Zinc	30.9	mg/kg	1.0	6020	05/10/12 14:22	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	30	ug/kg	3	8082A	05/04/12 19:31	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/04/12 19:31	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/04/12 19:31	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/04/12 19:31	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/04/12 19:31	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/04/12 19:31	JANB	11097-69-1	
PCB-1260	30	ug/kg	3	8082A	05/04/12 19:31	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,750	ug/kg	40	8270C	05/07/12 14:04	PL	83-32-9	1
Acenaphthylene	1,800	ug/kg	40	8270C	05/07/12 14:04	PL	208-96-8	1

1-Sample spiked at 1.87 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.03 (continued)

Sample Tag: VAP-A5.2-OE129_17-18 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	1,640	ug/kg	40	8270C	05/07/12 14:04	PL	98-86-2	1
Anthracene	1,810	ug/kg	40	8270C	05/07/12 14:04	PL	120-12-7	1
Atrazine	1,920	ug/kg	40	8270C	05/07/12 14:04	PL	1912-24-9	1
1,1'-Biphenyl	1,800	ug/kg	40	8270C	05/07/12 14:04	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,770	ug/kg	40	8270C	05/07/12 14:04	PL	101-55-3	1
di-n-Butyl phthalate	1,920	ug/kg	70	8270C	05/07/12 14:04	PL	84-74-2	1
Benzaldehyde	1,390	ug/kg	40	8270C	05/07/12 14:04	PL	100-52-7	1
Benzo(a)anthracene	1,770	ug/kg	40	8270C	05/07/12 14:04	PL	56-55-3	1
Benzo(a)pyrene	1,630	ug/kg	40	8270C	05/07/12 14:04	PL	50-32-8	1
Benzo(b)fluoranthene	1,800	ug/kg	40	8270C	05/07/12 14:04	PL	205-99-2	1
Benzo(ghi)perylene	1,390	ug/kg	40	8270C	05/07/12 14:04	PL	191-24-2	1
Benzo(k)fluoranthene	1,860	ug/kg	40	8270C	05/07/12 14:04	PL	207-08-9	1
Butyl benzyl phthalate	1,890	ug/kg	40	8270C	05/07/12 14:04	PL	85-68-7	1
2-Chloronaphthalene	1,780	ug/kg	40	8270C	05/07/12 14:04	PL	91-58-7	1
2-Chlorophenol	1,660	ug/kg	40	8270C	05/07/12 14:04	PL	95-57-8	1
4-Chloro-3-methylphenol	1,750	ug/kg	40	8270C	05/07/12 14:04	PL	59-50-7	1
4-Chloroaniline	1,580	ug/kg	40	8270C	05/07/12 14:04	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,820	ug/kg	40	8270C	05/07/12 14:04	PL	7005-72-3	1
Caprolactam	1,720	ug/kg	40	8270C	05/07/12 14:04	PL	105-60-2	1
Carbazole	1,860	ug/kg	40	8270C	05/07/12 14:04	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,640	ug/kg	40	8270C	05/07/12 14:04	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,470	ug/kg	40	8270C	05/07/12 14:04	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,420	ug/kg	40	8270C	05/07/12 14:04	PL	108-60-1	1
Chrysene	1,850	ug/kg	40	8270C	05/07/12 14:04	PL	218-01-9	1
2,4-Dichlorophenol	1,820	ug/kg	40	8270C	05/07/12 14:04	PL	120-83-2	1
2,4-Dimethylphenol	1,680	ug/kg	40	8270C	05/07/12 14:04	PL	105-67-9	1
2,4-Dinitrophenol	1,000	ug/kg	40	8270C	05/07/12 14:04	PL	51-28-5	1
2,4-Dinitrotoluene	1,910	ug/kg	40	8270C	05/07/12 14:04	PL	121-14-2	1
2,6-Dinitrotoluene	1,900	ug/kg	40	8270C	05/07/12 14:04	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,900	ug/kg	40	8270C	05/07/12 14:04	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,550	ug/kg	40	8270C	05/07/12 14:04	PL	534-52-1	1
Dibenzo(ah)anthracene	1,390	ug/kg	70	8270C	05/07/12 14:04	PL	53-70-3	1
Dibenzofuran	1,850	ug/kg	40	8270C	05/07/12 14:04	PL	132-64-9	1
Diethyl phthalate	1,870	ug/kg	70	8270C	05/07/12 14:04	PL	84-66-2	1
Dimethyl phthalate	1,880	ug/kg	40	8270C	05/07/12 14:04	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	1,920	ug/kg	70	8270C	05/07/12 14:04	PL	117-81-7	1
Fluoranthene	1,890	ug/kg	40	8270C	05/07/12 14:04	PL	206-44-0	1
Fluorene	1,830	ug/kg	40	8270C	05/07/12 14:04	PL	86-73-7	1
Hexachlorobenzene	1,660	ug/kg	40	8270C	05/07/12 14:04	PL	118-74-1	1
Hexachlorobutadiene	1,710	ug/kg	40	8270C	05/07/12 14:04	PL	87-68-3	1
Hexachlorocyclopentadiene	1,060	ug/kg	40	8270C	05/07/12 14:04	PL	77-47-4	1
Hexachloroethane	1,470	ug/kg	40	8270C	05/07/12 14:04	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,450	ug/kg	40	8270C	05/07/12 14:04	PL	193-39-5	1
Isophorone	1,610	ug/kg	40	8270C	05/07/12 14:04	PL	78-59-1	1
2-Methylnaphthalene	1,710	ug/kg	40	8270C	05/07/12 14:04	PL	91-57-6	1
2-Methylphenol	1,630	ug/kg	40	8270C	05/07/12 14:04	PL	95-48-7	1
3-, 4-Methylphenol	3,260	ug/kg	70	8270C	05/07/12 14:04	PL	3/4-Cresol	1
2-Nitroaniline	1,880	ug/kg	40	8270C	05/07/12 14:04	PL	88-74-4	1

1-Sample spiked at 1.87 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.03 (continued)

Sample Tag: VAP-A5.2-OE129_17-18 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	1,780	ug/kg	40	8270C	05/07/12 14:04	PL	88-75-5	1
3-Nitroaniline	1,710	ug/kg	40	8270C	05/07/12 14:04	PL	99-09-2	1
4-Nitroaniline	1,930	ug/kg	40	8270C	05/07/12 14:04	PL	100-01-6	1
4-Nitrophenol	1,310	ug/kg	40	8270C	05/07/12 14:04	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,550	ug/kg	40	8270C	05/07/12 14:04	PL	621-64-7	1
N-Nitrosodiphenylamine	1,560	ug/kg	40	8270C	05/07/12 14:04	PL	86-30-6	1
Naphthalene	1,730	ug/kg	40	8270C	05/07/12 14:04	PL	91-20-3	1
Nitrobenzene	1,670	ug/kg	40	8270C	05/07/12 14:04	PL	98-95-3	1
di-n-Octyl phthalate	1,970	ug/kg	70	8270C	05/07/12 14:04	PL	117-84-0	1
Pentachlorophenol	1,360	ug/kg	40	8270C	05/07/12 14:04	PL	87-86-5	1
Phenanthrene	1,800	ug/kg	40	8270C	05/07/12 14:04	PL	85-01-8	1
Phenol	1,590	ug/kg	40	8270C	05/07/12 14:04	PL	108-95-2	1
Pyrene	1,830	ug/kg	40	8270C	05/07/12 14:04	PL	129-00-0	1
2,4,5-Trichlorophenol	1,940	ug/kg	40	8270C	05/07/12 14:04	PL	95-95-4	1
2,4,6-Trichlorophenol	1,870	ug/kg	40	8270C	05/07/12 14:04	PL	88-06-2	1

1-Sample spiked at 1.87 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.04

Sample Tag: VAP-A5.2-OE129_17-18 MSD

Collected Date/Time: 05/02/2012 09:15

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/03/12 22:25	EMR		
Extraction, PCB	Completed			3550B	05/04/12 12:26	CCM		
Mercury Digestion	Completed			7471A	05/07/12 14:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 10:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	20.7	mg/kg	0.20	6020	05/10/12 14:28	PER	7440-36-0	
Arsenic	24.4	mg/kg	0.10	6020	05/10/12 14:28	PER	7440-38-2	
Barium	56.7	mg/kg	1.0	6020	05/10/12 14:28	PER	7440-39-3	
Beryllium	20.4	mg/kg	0.20	6020	05/10/12 14:28	PER	7440-41-7	
Boron	17.5	mg/kg	2.0	6020	05/10/12 14:28	PER	7440-42-8	
Cadmium	20.5	mg/kg	0.10	6020	05/10/12 14:28	PER	7440-43-9	
Chromium	27.4	mg/kg	0.20	6020	05/10/12 14:28	PER	7440-47-3	
Cobalt	25.4	mg/kg	0.20	6020	05/10/12 14:28	PER	7440-48-4	
Copper	32.1	mg/kg	0.20	6020	05/10/12 14:28	PER	7440-50-8	
Lead	24.4	mg/kg	0.20	6020	05/10/12 14:28	PER	7439-92-1	
Manganese	334	mg/kg	0.20	6020	05/10/12 14:28	PER	7439-96-5	
Mercury	0.1319	mg/kg	0.0056	7471A	05/08/12 13:02	JRT	7439-97-6	
Nickel	29.9	mg/kg	0.20	6020	05/10/12 14:28	PER	7440-02-0	
Selenium	19.4	mg/kg	0.20	6020	05/10/12 14:28	PER	7782-49-2	
Silver	19.5	mg/kg	0.10	6020	05/10/12 14:28	PER	7440-22-4	
Thallium	17.5	mg/kg	0.20	6020	05/10/12 14:28	PER	7440-28-0	
Vanadium	29.8	mg/kg	0.20	6020	05/10/12 14:28	PER	7440-62-2	
Zinc	30.9	mg/kg	1.0	6020	05/10/12 14:28	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	30	ug/kg	3	8082A	05/04/12 19:42	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/04/12 19:42	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/04/12 19:42	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/04/12 19:42	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/04/12 19:42	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/04/12 19:42	JANB	11097-69-1	
PCB-1260	30	ug/kg	3	8082A	05/04/12 19:42	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,770	ug/kg	40	8270C	05/07/12 14:38	PL	83-32-9	1
Acenaphthylene	1,840	ug/kg	40	8270C	05/07/12 14:38	PL	208-96-8	1

1-Sample spiked at 1.89 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.04 (continued)

Sample Tag: VAP-A5.2-OE129_17-18 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	1,650	ug/kg	40	8270C	05/07/12 14:38	PL	98-86-2	1
Anthracene	1,890	ug/kg	40	8270C	05/07/12 14:38	PL	120-12-7	1
Atrazine	1,940	ug/kg	40	8270C	05/07/12 14:38	PL	1912-24-9	1
1,1'-Biphenyl	1,830	ug/kg	40	8270C	05/07/12 14:38	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,810	ug/kg	40	8270C	05/07/12 14:38	PL	101-55-3	1
di-n-Butyl phthalate	1,970	ug/kg	80	8270C	05/07/12 14:38	PL	84-74-2	1
Benzaldehyde	1,390	ug/kg	40	8270C	05/07/12 14:38	PL	100-52-7	1
Benzo(a)anthracene	1,830	ug/kg	40	8270C	05/07/12 14:38	PL	56-55-3	1
Benzo(a)pyrene	1,700	ug/kg	40	8270C	05/07/12 14:38	PL	50-32-8	1
Benzo(b)fluoranthene	1,920	ug/kg	40	8270C	05/07/12 14:38	PL	205-99-2	1
Benzo(ghi)perylene	1,430	ug/kg	40	8270C	05/07/12 14:38	PL	191-24-2	1
Benzo(k)fluoranthene	1,880	ug/kg	40	8270C	05/07/12 14:38	PL	207-08-9	1
Butyl benzyl phthalate	1,950	ug/kg	40	8270C	05/07/12 14:38	PL	85-68-7	1
2-Chloronaphthalene	1,810	ug/kg	40	8270C	05/07/12 14:38	PL	91-58-7	1
2-Chlorophenol	1,670	ug/kg	40	8270C	05/07/12 14:38	PL	95-57-8	1
4-Chloro-3-methylphenol	1,750	ug/kg	40	8270C	05/07/12 14:38	PL	59-50-7	1
4-Chloroaniline	1,630	ug/kg	40	8270C	05/07/12 14:38	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,850	ug/kg	40	8270C	05/07/12 14:38	PL	7005-72-3	1
Caprolactam	1,750	ug/kg	40	8270C	05/07/12 14:38	PL	105-60-2	1
Carbazole	1,900	ug/kg	40	8270C	05/07/12 14:38	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,650	ug/kg	40	8270C	05/07/12 14:38	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,460	ug/kg	40	8270C	05/07/12 14:38	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,420	ug/kg	40	8270C	05/07/12 14:38	PL	108-60-1	1
Chrysene	1,900	ug/kg	40	8270C	05/07/12 14:38	PL	218-01-9	1
2,4-Dichlorophenol	1,830	ug/kg	40	8270C	05/07/12 14:38	PL	120-83-2	1
2,4-Dimethylphenol	1,730	ug/kg	40	8270C	05/07/12 14:38	PL	105-67-9	1
2,4-Dinitrophenol	810	ug/kg	40	8270C	05/07/12 14:38	PL	51-28-5	1
2,4-Dinitrotoluene	1,920	ug/kg	40	8270C	05/07/12 14:38	PL	121-14-2	1
2,6-Dinitrotoluene	1,930	ug/kg	40	8270C	05/07/12 14:38	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,980	ug/kg	40	8270C	05/07/12 14:38	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,530	ug/kg	40	8270C	05/07/12 14:38	PL	534-52-1	1
Dibenzo(ah)anthracene	1,450	ug/kg	80	8270C	05/07/12 14:38	PL	53-70-3	1
Dibenzofuran	1,920	ug/kg	40	8270C	05/07/12 14:38	PL	132-64-9	1
Diethyl phthalate	1,930	ug/kg	80	8270C	05/07/12 14:38	PL	84-66-2	1
Dimethyl phthalate	1,900	ug/kg	40	8270C	05/07/12 14:38	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	2,000	ug/kg	80	8270C	05/07/12 14:38	PL	117-81-7	1
Fluoranthene	1,950	ug/kg	40	8270C	05/07/12 14:38	PL	206-44-0	1
Fluorene	1,880	ug/kg	40	8270C	05/07/12 14:38	PL	86-73-7	1
Hexachlorobenzene	1,700	ug/kg	40	8270C	05/07/12 14:38	PL	118-74-1	1
Hexachlorobutadiene	1,740	ug/kg	40	8270C	05/07/12 14:38	PL	87-68-3	1
Hexachlorocyclopentadiene	970	ug/kg	40	8270C	05/07/12 14:38	PL	77-47-4	1
Hexachloroethane	1,490	ug/kg	40	8270C	05/07/12 14:38	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,490	ug/kg	40	8270C	05/07/12 14:38	PL	193-39-5	1
Isophorone	1,620	ug/kg	40	8270C	05/07/12 14:38	PL	78-59-1	1
2-Methylnaphthalene	1,740	ug/kg	40	8270C	05/07/12 14:38	PL	91-57-6	1
2-Methylphenol	1,630	ug/kg	40	8270C	05/07/12 14:38	PL	95-48-7	1
3-, 4-Methylphenol	3,300	ug/kg	80	8270C	05/07/12 14:38	PL	3/4-Cresol	1
2-Nitroaniline	1,880	ug/kg	40	8270C	05/07/12 14:38	PL	88-74-4	1

1-Sample spiked at 1.89 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.04 (continued)

Sample Tag: VAP-A5.2-OE129_17-18 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	1,790	ug/kg	40	8270C	05/07/12 14:38	PL	88-75-5	1
3-Nitroaniline	1,740	ug/kg	40	8270C	05/07/12 14:38	PL	99-09-2	1
4-Nitroaniline	1,970	ug/kg	40	8270C	05/07/12 14:38	PL	100-01-6	1
4-Nitrophenol	1,320	ug/kg	40	8270C	05/07/12 14:38	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,550	ug/kg	40	8270C	05/07/12 14:38	PL	621-64-7	1
N-Nitrosodiphenylamine	1,610	ug/kg	40	8270C	05/07/12 14:38	PL	86-30-6	1
Naphthalene	1,760	ug/kg	40	8270C	05/07/12 14:38	PL	91-20-3	1
Nitrobenzene	1,680	ug/kg	40	8270C	05/07/12 14:38	PL	98-95-3	1
di-n-Octyl phthalate	2,060	ug/kg	80	8270C	05/07/12 14:38	PL	117-84-0	1
Pentachlorophenol	1,400	ug/kg	40	8270C	05/07/12 14:38	PL	87-86-5	1
Phenanthrene	1,850	ug/kg	40	8270C	05/07/12 14:38	PL	85-01-8	1
Phenol	1,590	ug/kg	40	8270C	05/07/12 14:38	PL	108-95-2	1
Pyrene	1,890	ug/kg	40	8270C	05/07/12 14:38	PL	129-00-0	1
2,4,5-Trichlorophenol	1,950	ug/kg	40	8270C	05/07/12 14:38	PL	95-95-4	1
2,4,6-Trichlorophenol	1,880	ug/kg	40	8270C	05/07/12 14:38	PL	88-06-2	1

1-Sample spiked at 1.89 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.05

Sample Tag: VAP-A5.2-DUP#5

Collected Date/Time: 05/02/2012 00:01

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/03/12 22:25	EMR		
Extraction, PCB	Completed			3550B	05/04/12 12:26	CCM		
Mercury Digestion	Completed			7471A	05/07/12 14:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 10:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 15:07	PER	7440-36-0	
Arsenic	1.61	mg/kg	0.10	6020	05/10/12 15:07	PER	7440-38-2	
Barium	30.5	mg/kg	1.0	6020	05/10/12 15:07	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 15:07	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 15:07	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	05/10/12 15:07	PER	7440-43-9	
Chromium	2.82	mg/kg	0.20	6020	05/10/12 15:07	PER	7440-47-3	
Cobalt	2.55	mg/kg	0.20	6020	05/10/12 15:07	PER	7440-48-4	
Copper	10.5	mg/kg	0.20	6020	05/10/12 15:07	PER	7440-50-8	
Lead	4.54	mg/kg	0.20	6020	05/10/12 15:07	PER	7439-92-1	
Manganese	283	mg/kg	0.20	6020	05/10/12 15:07	PER	7439-96-5	
Mercury	0.0122	mg/kg	0.0055	7471A	05/08/12 12:37	JRT	7439-97-6	
Nickel	8.14	mg/kg	0.20	6020	05/10/12 15:07	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 15:07	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 15:07	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 15:07	PER	7440-28-0	
Vanadium	4.67	mg/kg	0.20	6020	05/10/12 15:07	PER	7440-62-2	
Zinc	12.4	mg/kg	1.0	6020	05/10/12 15:07	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/04/12 19:52	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/04/12 19:52	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/04/12 19:52	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/04/12 19:52	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/04/12 19:52	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/04/12 19:52	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/04/12 19:52	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.05 (continued)

Sample Tag: VAP-A5.2-DUP#5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 15:12	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/07/12 15:12	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 15:12	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	100	ug/kg	70	8270C	05/07/12 15:12	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/07/12 15:12	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.05 (continued)

Sample Tag: VAP-A5.2-DUP#5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 15:12	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 15:12	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.06
Sample Tag: VAP-A5.2-OE129_22-23
Collected Date/Time: 05/02/2012 10:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/03/12 22:25	EMR		
Extraction, PCB	Completed			3550B	05/04/12 12:26	CCM		
Mercury Digestion	Completed			7471A	05/07/12 14:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 10:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 15:09	PER	7440-36-0	
Arsenic	0.97	mg/kg	0.10	6020	05/10/12 15:09	PER	7440-38-2	
Barium	18.4	mg/kg	1.0	6020	05/10/12 15:09	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 15:09	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 15:09	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 15:09	PER	7440-43-9	
Chromium	1.68	mg/kg	0.20	6020	05/10/12 15:09	PER	7440-47-3	
Cobalt	1.60	mg/kg	0.20	6020	05/10/12 15:09	PER	7440-48-4	
Copper	7.64	mg/kg	0.20	6020	05/10/12 15:09	PER	7440-50-8	
Lead	3.49	mg/kg	0.20	6020	05/10/12 15:09	PER	7439-92-1	
Manganese	225	mg/kg	0.20	6020	05/10/12 15:09	PER	7439-96-5	
Mercury	0.0067	mg/kg	0.0055	7471A	05/08/12 12:39	JRT	7439-97-6	
Nickel	5.65	mg/kg	0.20	6020	05/10/12 15:09	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 15:09	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 15:09	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 15:09	PER	7440-28-0	
Vanadium	3.03	mg/kg	0.20	6020	05/10/12 15:09	PER	7440-62-2	
Zinc	10.7	mg/kg	1.0	6020	05/10/12 15:09	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/04/12 20:03	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/04/12 20:03	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/04/12 20:03	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/04/12 20:03	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/04/12 20:03	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/04/12 20:03	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/04/12 20:03	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.06 (continued)

Sample Tag: VAP-A5.2-OE129_22-23

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 15:46	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/07/12 15:46	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 15:46	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/07/12 15:46	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/07/12 15:46	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.06 (continued)

Sample Tag: VAP-A5.2-OE129_22-23

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 15:46	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 15:46	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.07

Sample Tag: VAP-A5.2-OE129_18.5-19.5

Collected Date/Time: 05/02/2012 10:40

Matrix: Water

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.3	IR
1	125ml Plastic	HNO3	Yes	4.3	IR
2	1L Amber	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/07/12 23:32	EMR		
Extraction, PCB	Completed			3510C	05/08/12 9:45	CCM		
Mercury Digestion	Completed			7471A	05/07/12 10:05	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:25	SLS	7440-36-0	
Arsenic, Dissolved	0.010	mg/L	0.002	6020	05/10/12 14:25	SLS	7440-38-2	
Barium, Dissolved	0.203	mg/L	0.010	6020	05/10/12 14:25	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 14:25	SLS	7440-41-7	
Boron, Dissolved	0.18	mg/L	0.04	6020	05/10/12 14:25	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 14:25	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:25	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:25	SLS	7440-48-4	
Copper, Dissolved	0.009	mg/L	0.002	6020	05/10/12 14:25	SLS	7440-50-8	
Lead, Dissolved	0.003	mg/L	0.002	6020	05/10/12 14:25	SLS	7439-92-1	
Manganese, Dissolved	0.334	mg/L	0.010	6020	05/10/12 14:25	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/08/12 11:34	JRT	7439-97-6	
Nickel, Dissolved	0.018	mg/L	0.010	6020	05/10/12 14:25	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:25	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 14:25	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:25	SLS	7440-28-0	
Vanadium, Dissolved	0.004	mg/L	0.002	6020	05/10/12 14:25	SLS	7440-62-2	
Zinc, Dissolved	0.020	mg/L	0.010	6020	05/10/12 14:25	SLS	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List Dissolved (Column 1)**

PCB-1016	Not detected	ug/L	0.05	8082A	05/08/12 12:25	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/08/12 12:25	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/08/12 12:25	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/08/12 12:25	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/08/12 12:25	JANB	12672-29-6	
PCB-1254	0.05	ug/L	0.05	8082A	05/08/12 12:25	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/08/12 12:25	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/08/12 15:04	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/08/12 15:04	PL	118-74-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.07 (continued)
Sample Tag: VAP-A5.2-OE129_18.5-19.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	101-55-3	
di-n-Butyl phthalate	2	ug/L	1	8270C	05/09/12 13:09	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/09/12 13:09	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/09/12 13:09	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	05/09/12 13:09	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	8	ug/L	2	8270C	05/09/12 13:09	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	88-75-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.07 (continued)

Sample Tag: VAP-A5.2-OE129_18.5-19.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/09/12 13:09	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.08

Sample Tag: VAP-A5.2-DUP#6

Collected Date/Time: 05/02/2012 00:01

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/03/12 22:25	EMR		
Extraction, PCB	Completed			3550B	05/04/12 12:26	CCM		
Mercury Digestion	Completed			7471A	05/07/12 14:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 10:00	PER		

Inorganics

Total Solids	85	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 15:12	PER	7440-36-0	
Arsenic	1.91	mg/kg	0.10	6020	05/10/12 15:12	PER	7440-38-2	
Barium	23.1	mg/kg	1.0	6020	05/10/12 15:12	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 15:12	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 15:12	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 15:12	PER	7440-43-9	
Chromium	2.63	mg/kg	0.20	6020	05/10/12 15:12	PER	7440-47-3	
Cobalt	2.64	mg/kg	0.20	6020	05/10/12 15:12	PER	7440-48-4	
Copper	9.97	mg/kg	0.20	6020	05/10/12 15:12	PER	7440-50-8	
Lead	4.60	mg/kg	0.20	6020	05/10/12 15:12	PER	7439-92-1	
Manganese	296	mg/kg	0.20	6020	05/10/12 15:12	PER	7439-96-5	
Mercury	0.0118	mg/kg	0.0059	7471A	05/08/12 12:41	JRT	7439-97-6	
Nickel	8.44	mg/kg	0.20	6020	05/10/12 15:12	PER	7440-02-0	
Selenium	0.23	mg/kg	0.20	6020	05/10/12 15:12	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 15:12	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 15:12	PER	7440-28-0	
Vanadium	4.62	mg/kg	0.20	6020	05/10/12 15:12	PER	7440-62-2	
Zinc	12.5	mg/kg	1.0	6020	05/10/12 15:12	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/04/12 20:14	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/04/12 20:14	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/04/12 20:14	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/04/12 20:14	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/04/12 20:14	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/04/12 20:14	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/04/12 20:14	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.08 (continued)

Sample Tag: VAP-A5.2-DUP#6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 16:20	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/07/12 16:20	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 16:20	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/07/12 16:20	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/07/12 16:20	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.08 (continued)

Sample Tag: VAP-A5.2-DUP#6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 16:20	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 16:20	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.09
Sample Tag: VAP-A5.2-OE129_29-30
Collected Date/Time: 05/02/2012 11:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/03/12 22:25	EMR		
Extraction, PCB	Completed			3550B	05/04/12 12:26	CCM		
Mercury Digestion	Completed			7471A	05/07/12 14:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 10:00	PER		

Inorganics

Total Solids	85	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 15:14	PER	7440-36-0	
Arsenic	2.44	mg/kg	0.10	6020	05/10/12 15:14	PER	7440-38-2	
Barium	21.6	mg/kg	1.0	6020	05/10/12 15:14	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 15:14	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 15:14	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 15:14	PER	7440-43-9	
Chromium	2.70	mg/kg	0.20	6020	05/10/12 15:14	PER	7440-47-3	
Cobalt	2.22	mg/kg	0.20	6020	05/10/12 15:14	PER	7440-48-4	
Copper	9.09	mg/kg	0.20	6020	05/10/12 15:14	PER	7440-50-8	
Lead	4.55	mg/kg	0.20	6020	05/10/12 15:14	PER	7439-92-1	
Manganese	279	mg/kg	0.20	6020	05/10/12 15:14	PER	7439-96-5	
Mercury	0.0110	mg/kg	0.0058	7471A	05/08/12 12:44	JRT	7439-97-6	
Nickel	7.68	mg/kg	0.20	6020	05/10/12 15:14	PER	7440-02-0	
Selenium	0.44	mg/kg	0.20	6020	05/10/12 15:14	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 15:14	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 15:14	PER	7440-28-0	
Vanadium	4.44	mg/kg	0.20	6020	05/10/12 15:14	PER	7440-62-2	
Zinc	10.3	mg/kg	1.0	6020	05/10/12 15:14	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/04/12 20:24	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/04/12 20:24	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/04/12 20:24	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/04/12 20:24	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/04/12 20:24	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/04/12 20:24	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/04/12 20:24	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.09 (continued)

Sample Tag: VAP-A5.2-OE129_29-30

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 16:54	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/07/12 16:54	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 16:54	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/07/12 16:54	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/07/12 16:54	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.09 (continued)

Sample Tag: VAP-A5.2-OE129_29-30

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 16:54	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 16:54	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.10

Sample Tag: VAP-A5.2-OE129_36-36.5

Collected Date/Time: 05/02/2012 12:10

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/03/12 22:25	EMR		
Extraction, PCB	Completed			3550B	05/04/12 12:26	CCM		
Mercury Digestion	Completed			7471A	05/07/12 14:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 10:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 15:17	PER	7440-36-0	
Arsenic	7.86	mg/kg	0.10	6020	05/10/12 15:17	PER	7440-38-2	
Barium	13.6	mg/kg	1.0	6020	05/10/12 15:17	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 15:17	PER	7440-41-7	
Boron	2.19	mg/kg	2.0	6020	05/10/12 15:17	PER	7440-42-8	
Cadmium	0.30	mg/kg	0.10	6020	05/10/12 15:17	PER	7440-43-9	
Chromium	2.22	mg/kg	0.20	6020	05/10/12 15:17	PER	7440-47-3	
Cobalt	3.83	mg/kg	0.20	6020	05/10/12 15:17	PER	7440-48-4	
Copper	9.59	mg/kg	0.20	6020	05/10/12 15:17	PER	7440-50-8	
Lead	5.60	mg/kg	0.20	6020	05/10/12 15:17	PER	7439-92-1	
Manganese	365	mg/kg	0.20	6020	05/10/12 15:17	PER	7439-96-5	
Mercury	0.0092	mg/kg	0.0058	7471A	05/08/12 12:46	JRT	7439-97-6	
Nickel	12.9	mg/kg	0.20	6020	05/10/12 15:17	PER	7440-02-0	
Selenium	0.50	mg/kg	0.20	6020	05/10/12 15:17	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 15:17	PER	7440-22-4	
Thallium	0.21	mg/kg	0.20	6020	05/10/12 15:17	PER	7440-28-0	
Vanadium	3.71	mg/kg	0.20	6020	05/10/12 15:17	PER	7440-62-2	
Zinc	38.7	mg/kg	1.0	6020	05/10/12 15:17	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/04/12 20:35	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/04/12 20:35	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/04/12 20:35	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/04/12 20:35	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/04/12 20:35	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/04/12 20:35	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/04/12 20:35	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.10 (continued)

Sample Tag: VAP-A5.2-OE129_36-36.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 17:28	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/07/12 17:28	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 17:28	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	90	ug/kg	80	8270C	05/07/12 17:28	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/07/12 17:28	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.10 (continued)

Sample Tag: VAP-A5.2-OE129_36-36.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 17:28	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 17:28	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.11
Sample Tag: VAP-A5.2-OE129_33-34
Collected Date/Time: 05/02/2012 12:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/03/12 22:25	EMR		
Extraction, PCB	Completed			3550B	05/04/12 12:26	CCM		
Mercury Digestion	Completed			7471A	05/07/12 14:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 10:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 15:19	PER	7440-36-0	
Arsenic	2.99	mg/kg	0.10	6020	05/10/12 15:19	PER	7440-38-2	
Barium	15.3	mg/kg	1.0	6020	05/10/12 15:19	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 15:19	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 15:19	PER	7440-42-8	
Cadmium	0.12	mg/kg	0.10	6020	05/10/12 15:19	PER	7440-43-9	
Chromium	1.83	mg/kg	0.20	6020	05/10/12 15:19	PER	7440-47-3	
Cobalt	2.55	mg/kg	0.20	6020	05/10/12 15:19	PER	7440-48-4	
Copper	7.18	mg/kg	0.20	6020	05/10/12 15:19	PER	7440-50-8	
Lead	4.16	mg/kg	0.20	6020	05/10/12 15:19	PER	7439-92-1	
Manganese	265	mg/kg	0.20	6020	05/10/12 15:19	PER	7439-96-5	
Mercury	0.0101	mg/kg	0.0057	7471A	05/08/12 12:48	JRT	7439-97-6	
Nickel	8.05	mg/kg	0.20	6020	05/10/12 15:19	PER	7440-02-0	
Selenium	0.20	mg/kg	0.20	6020	05/10/12 15:19	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 15:19	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 15:19	PER	7440-28-0	
Vanadium	3.37	mg/kg	0.20	6020	05/10/12 15:19	PER	7440-62-2	
Zinc	18.5	mg/kg	1.0	6020	05/10/12 15:19	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/04/12 20:45	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/04/12 20:45	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/04/12 20:45	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/04/12 20:45	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/04/12 20:45	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/04/12 20:45	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/04/12 20:45	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.11 (continued)

Sample Tag: VAP-A5.2-OE129_33-34

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 18:01	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/07/12 18:01	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 18:01	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/07/12 18:01	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/07/12 18:01	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.11 (continued)

Sample Tag: VAP-A5.2-OE129_33-34

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 18:01	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 18:01	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.12
Sample Tag: VAP-A5.2-OE129_41-42
Collected Date/Time: 05/02/2012 12:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/03/12 22:25	EMR		
Extraction, PCB	Completed			3550B	05/04/12 12:26	CCM		
Mercury Digestion	Completed			7471A	05/07/12 14:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 10:00	PER		

Inorganics

Total Solids	85	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 15:21	PER	7440-36-0	
Arsenic	3.86	mg/kg	0.10	6020	05/10/12 15:21	PER	7440-38-2	
Barium	54.3	mg/kg	1.0	6020	05/10/12 15:21	PER	7440-39-3	
Beryllium	0.27	mg/kg	0.20	6020	05/10/12 15:21	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 15:21	PER	7440-42-8	
Cadmium	0.22	mg/kg	0.10	6020	05/10/12 15:21	PER	7440-43-9	
Chromium	4.63	mg/kg	0.20	6020	05/10/12 15:21	PER	7440-47-3	
Cobalt	6.50	mg/kg	0.20	6020	05/10/12 15:21	PER	7440-48-4	
Copper	18.0	mg/kg	0.20	6020	05/10/12 15:21	PER	7440-50-8	
Lead	9.01	mg/kg	0.20	6020	05/10/12 15:21	PER	7439-92-1	
Manganese	392	mg/kg	0.20	6020	05/10/12 15:21	PER	7439-96-5	
Mercury	0.0160	mg/kg	0.0059	7471A	05/08/12 12:50	JRT	7439-97-6	
Nickel	18.1	mg/kg	0.20	6020	05/10/12 15:21	PER	7440-02-0	
Selenium	0.41	mg/kg	0.20	6020	05/10/12 15:21	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 15:21	PER	7440-22-4	
Thallium	0.26	mg/kg	0.20	6020	05/10/12 15:21	PER	7440-28-0	
Vanadium	6.18	mg/kg	0.20	6020	05/10/12 15:21	PER	7440-62-2	
Zinc	27.8	mg/kg	1.0	6020	05/10/12 15:21	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/04/12 20:56	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/04/12 20:56	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/04/12 20:56	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/04/12 20:56	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/04/12 20:56	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/04/12 20:56	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/04/12 20:56	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.12 (continued)

Sample Tag: VAP-A5.2-OE129_41-42

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 18:35	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/07/12 18:35	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 18:35	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	90	ug/kg	80	8270C	05/07/12 18:35	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/07/12 18:35	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.12 (continued)

Sample Tag: VAP-A5.2-OE129_41-42

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 18:35	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 18:35	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.13

Sample Tag: VAP-A5.2-OE129_45-46

Collected Date/Time: 05/02/2012 12:50

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/03/12 22:25	EMR		
Extraction, PCB	Completed			3550B	05/04/12 12:26	CCM		
Mercury Digestion	Completed			7471A	05/07/12 14:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 10:00	PER		

Inorganics

Total Solids	97	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 15:29	PER	7440-36-0	
Arsenic	1.85	mg/kg	0.10	6020	05/10/12 15:29	PER	7440-38-2	
Barium	5.42	mg/kg	1.0	6020	05/10/12 15:29	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 15:29	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 15:29	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 15:29	PER	7440-43-9	
Chromium	1.36	mg/kg	0.20	6020	05/10/12 15:29	PER	7440-47-3	
Cobalt	1.03	mg/kg	0.20	6020	05/10/12 15:29	PER	7440-48-4	
Copper	2.78	mg/kg	0.20	6020	05/10/12 15:29	PER	7440-50-8	
Lead	1.90	mg/kg	0.20	6020	05/10/12 15:29	PER	7439-92-1	
Manganese	125	mg/kg	0.20	6020	05/10/12 15:29	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0052	7471A	05/08/12 12:53	JRT	7439-97-6	
Nickel	3.73	mg/kg	0.20	6020	05/10/12 15:29	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 15:29	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 15:29	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 15:29	PER	7440-28-0	
Vanadium	1.40	mg/kg	0.20	6020	05/10/12 15:29	PER	7440-62-2	
Zinc	5.83	mg/kg	1.0	6020	05/10/12 15:29	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/04/12 21:07	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/04/12 21:07	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/04/12 21:07	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/04/12 21:07	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/04/12 21:07	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/04/12 21:07	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/04/12 21:07	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	208-96-8	
Acetophenone	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.13 (continued)

Sample Tag: VAP-A5.2-OE129_45-46

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	120-12-7	
Atrazine	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 19:09	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	105-60-2	
Carbazole	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	108-60-1	
Chrysene	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/07/12 19:09	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 19:09	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	140	ug/kg	70	8270C	05/07/12 19:09	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	206-44-0	
Fluorene	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	193-39-5	
Isophorone	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/07/12 19:09	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.13 (continued)

Sample Tag: VAP-A5.2-OE129_45-46

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	86-30-6	
Naphthalene	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 19:09	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	85-01-8	
Phenol	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	108-95-2	
Pyrene	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	30	8270C	05/07/12 19:09	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.14

Sample Tag: VAP-A5.2-OE129_51-52

Collected Date/Time: 05/02/2012 13:20

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/03/12 22:25	EMR		
Extraction, PCB	Completed			3550B	05/04/12 12:26	CCM		
Mercury Digestion	Completed			7471A	05/07/12 14:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 10:00	PER		

Inorganics

Total Solids	99	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 15:32	PER	7440-36-0	
Arsenic	1.53	mg/kg	0.10	6020	05/10/12 15:32	PER	7440-38-2	
Barium	3.45	mg/kg	1.0	6020	05/10/12 15:32	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 15:32	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 15:32	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 15:32	PER	7440-43-9	
Chromium	0.72	mg/kg	0.20	6020	05/10/12 15:32	PER	7440-47-3	
Cobalt	1.12	mg/kg	0.20	6020	05/10/12 15:32	PER	7440-48-4	
Copper	2.44	mg/kg	0.20	6020	05/10/12 15:32	PER	7440-50-8	
Lead	2.52	mg/kg	0.20	6020	05/10/12 15:32	PER	7439-92-1	
Manganese	151	mg/kg	0.20	6020	05/10/12 15:32	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0051	7471A	05/08/12 12:55	JRT	7439-97-6	
Nickel	3.70	mg/kg	0.20	6020	05/10/12 15:32	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 15:32	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 15:32	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 15:32	PER	7440-28-0	
Vanadium	0.94	mg/kg	0.20	6020	05/10/12 15:32	PER	7440-62-2	
Zinc	7.82	mg/kg	1.0	6020	05/10/12 15:32	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/04/12 21:17	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/04/12 21:17	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/04/12 21:17	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/04/12 21:17	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/04/12 21:17	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/04/12 21:17	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/04/12 21:17	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	208-96-8	
Acetophenone	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.14 (continued)

Sample Tag: VAP-A5.2-OE129_51-52

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	120-12-7	
Atrazine	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 19:43	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	105-60-2	
Carbazole	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	108-60-1	
Chrysene	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/07/12 19:43	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 19:43	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/07/12 19:43	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	206-44-0	
Fluorene	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	193-39-5	
Isophorone	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/07/12 19:43	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.14 (continued)

Sample Tag: VAP-A5.2-OE129_51-52

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	86-30-6	
Naphthalene	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 19:43	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	85-01-8	
Phenol	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	108-95-2	
Pyrene	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	30	8270C	05/07/12 19:43	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.15

Sample Tag: VAP-A5.2-OE129_58-59

Collected Date/Time: 05/02/2012 13:25

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/03/12 22:25	EMR		
Extraction, PCB	Completed			3550B	05/04/12 12:26	CCM		
Mercury Digestion	Completed			7471A	05/07/12 14:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 10:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 15:34	PER	7440-36-0	
Arsenic	2.34	mg/kg	0.10	6020	05/10/12 15:34	PER	7440-38-2	
Barium	19.8	mg/kg	1.0	6020	05/10/12 15:34	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 15:34	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 15:34	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 15:34	PER	7440-43-9	
Chromium	2.99	mg/kg	0.20	6020	05/10/12 15:34	PER	7440-47-3	
Cobalt	3.19	mg/kg	0.20	6020	05/10/12 15:34	PER	7440-48-4	
Copper	9.79	mg/kg	0.20	6020	05/10/12 15:34	PER	7440-50-8	
Lead	4.91	mg/kg	0.20	6020	05/10/12 15:34	PER	7439-92-1	
Manganese	320	mg/kg	0.20	6020	05/10/12 15:34	PER	7439-96-5	
Mercury	0.0161	mg/kg	0.0056	7471A	05/08/12 13:10	JRT	7439-97-6	
Nickel	8.14	mg/kg	0.20	6020	05/10/12 15:34	PER	7440-02-0	
Selenium	0.22	mg/kg	0.20	6020	05/10/12 15:34	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 15:34	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 15:34	PER	7440-28-0	
Vanadium	4.50	mg/kg	0.20	6020	05/10/12 15:34	PER	7440-62-2	
Zinc	17.3	mg/kg	1.0	6020	05/10/12 15:34	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/04/12 21:28	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/04/12 21:28	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/04/12 21:28	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/04/12 21:28	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/04/12 21:28	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/04/12 21:28	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/04/12 21:28	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.15 (continued)

Sample Tag: VAP-A5.2-OE129_58-59

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 20:17	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/07/12 20:17	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 20:17	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/07/12 20:17	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/07/12 20:17	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.15 (continued)

Sample Tag: VAP-A5.2-OE129_58-59

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 20:17	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 20:17	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.16

Sample Tag: VAP-A5.2-NV119_6-7

Collected Date/Time: 05/02/2012 16:15

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/03/12 22:25	EMR		
Extraction, PCB	Completed			3550B	05/04/12 12:26	CCM		
Mercury Digestion	Completed			7471A	05/07/12 14:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 10:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/03/12 09:45	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 15:37	PER	7440-36-0	
Arsenic	2.43	mg/kg	0.10	6020	05/10/12 15:37	PER	7440-38-2	
Barium	22.7	mg/kg	1.0	6020	05/10/12 15:37	PER	7440-39-3	
Beryllium	0.20	mg/kg	0.20	6020	05/10/12 15:37	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 15:37	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 15:37	PER	7440-43-9	
Chromium	2.47	mg/kg	0.20	6020	05/10/12 15:37	PER	7440-47-3	
Cobalt	3.97	mg/kg	0.20	6020	05/10/12 15:37	PER	7440-48-4	
Copper	15.6	mg/kg	0.20	6020	05/10/12 15:37	PER	7440-50-8	
Lead	7.03	mg/kg	0.20	6020	05/10/12 15:37	PER	7439-92-1	
Manganese	97.3	mg/kg	0.20	6020	05/10/12 15:37	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0056	7471A	05/08/12 13:12	JRT	7439-97-6	
Nickel	7.06	mg/kg	0.20	6020	05/10/12 15:37	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 15:37	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 15:37	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 15:37	PER	7440-28-0	
Vanadium	11.2	mg/kg	0.20	6020	05/10/12 15:37	PER	7440-62-2	
Zinc	8.02	mg/kg	1.0	6020	05/10/12 15:37	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3,000	8082A	05/07/12 14:02	JANB	12674-11-2	Y
PCB-1242	39,000	ug/kg	3,000	8082A	05/07/12 14:02	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	3,000	8082A	05/07/12 14:02	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	3,000	8082A	05/07/12 14:02	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	3,000	8082A	05/07/12 14:02	JANB	12672-29-6	Y
PCB-1254	Not detected	ug/kg	3,000	8082A	05/07/12 14:02	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	3,000	8082A	05/07/12 14:02	JANB	11096-82-5	Y

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	83-32-9	X
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Y-Elevated reporting limit due to high target concentration

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.16 (continued)

Sample Tag: VAP-A5.2-NV119_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acenaphthylene	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	98-86-2	X
Anthracene	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	120-12-7	X
Atrazine	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	05/07/12 20:51	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	105-60-2	X
Carbazole	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	108-60-1	X
Chrysene	1,000	ug/kg	1,000	8270C	05/07/12 20:51	PL	218-01-9	XZ
2,4-Dichlorophenol	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	05/07/12 20:51	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	05/07/12 20:51	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	05/07/12 20:51	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	206-44-0	X
Fluorene	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	193-39-5	X
Isophorone	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	95-48-7	X

X-Elevated reporting limit due to matrix interference

Z-Estimated result due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.16 (continued)

Sample Tag: VAP-A5.2-NV119_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	05/07/12 20:51	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	05/07/12 20:51	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	85-01-8	X
Phenol	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	108-95-2	X
Pyrene	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	1,000	8270C	05/07/12 20:51	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.17

Sample Tag: VAP-A5.2-NV119_8-9

Collected Date/Time: 05/02/2012 16:35

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/03/12 22:25	EMR		
Extraction, PCB	Completed			3550B	05/04/12 12:26	CCM		
Mercury Digestion	Completed			7471A	05/07/12 14:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 10:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/03/12 12:45	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 15:39	PER	7440-36-0	
Arsenic	1.25	mg/kg	0.10	6020	05/10/12 15:39	PER	7440-38-2	
Barium	14.3	mg/kg	1.0	6020	05/10/12 15:39	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 15:39	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 15:39	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 15:39	PER	7440-43-9	
Chromium	1.79	mg/kg	0.20	6020	05/10/12 15:39	PER	7440-47-3	
Cobalt	1.36	mg/kg	0.20	6020	05/10/12 15:39	PER	7440-48-4	
Copper	4.51	mg/kg	0.20	6020	05/10/12 15:39	PER	7440-50-8	
Lead	3.60	mg/kg	0.20	6020	05/10/12 15:39	PER	7439-92-1	
Manganese	136	mg/kg	0.20	6020	05/10/12 15:39	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0056	7471A	05/08/12 13:15	JRT	7439-97-6	
Nickel	3.64	mg/kg	0.20	6020	05/10/12 15:39	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 15:39	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 15:39	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 15:39	PER	7440-28-0	
Vanadium	2.99	mg/kg	0.20	6020	05/10/12 15:39	PER	7440-62-2	
Zinc	5.37	mg/kg	1.0	6020	05/10/12 15:39	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	300	8082A	05/04/12 15:49	JANB	12674-11-2	Y
PCB-1242	5,400	ug/kg	300	8082A	05/04/12 15:49	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	300	8082A	05/04/12 15:49	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	300	8082A	05/04/12 15:49	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	300	8082A	05/04/12 15:49	JANB	12672-29-6	Y
PCB-1254	Not detected	ug/kg	300	8082A	05/04/12 15:49	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	300	8082A	05/04/12 15:49	JANB	11096-82-5	Y

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	83-32-9	X
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Y-Elevated reporting limit due to high target concentration

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.17 (continued)

Sample Tag: VAP-A5.2-NV119_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acenaphthylene	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	98-86-2	X
Anthracene	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	120-12-7	X
Atrazine	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	800	8270C	05/07/12 21:24	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	105-60-2	X
Carbazole	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	108-60-1	X
Chrysene	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	800	8270C	05/07/12 21:24	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	800	8270C	05/07/12 21:24	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	800	8270C	05/07/12 21:24	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	206-44-0	X
Fluorene	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	193-39-5	X
Isophorone	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	800	8270C	05/07/12 21:24	PL	3/4-Cresol	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.17 (continued)

Sample Tag: VAP-A5.2-NV119_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	800	8270C	05/07/12 21:24	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	87-86-5	X
Phenanthrene	500	ug/kg	400	8270C	05/07/12 21:24	PL	85-01-8	X
Phenol	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	108-95-2	X
Pyrene	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	400	8270C	05/07/12 21:24	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.18

Sample Tag: VAP-A5.2-DUP#7

Collected Date/Time: 05/02/2012 00:01

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/03/12 22:25	EMR		
Extraction, PCB	Completed			3550B	05/04/12 12:26	CCM		
Mercury Digestion	Completed			7471A	05/07/12 14:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 10:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 15:41	PER	7440-36-0	
Arsenic	0.90	mg/kg	0.10	6020	05/10/12 15:41	PER	7440-38-2	
Barium	11.2	mg/kg	1.0	6020	05/10/12 15:41	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 15:41	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 15:41	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 15:41	PER	7440-43-9	
Chromium	1.60	mg/kg	0.20	6020	05/10/12 15:41	PER	7440-47-3	
Cobalt	1.14	mg/kg	0.20	6020	05/10/12 15:41	PER	7440-48-4	
Copper	4.89	mg/kg	0.20	6020	05/10/12 15:41	PER	7440-50-8	
Lead	2.15	mg/kg	0.20	6020	05/10/12 15:41	PER	7439-92-1	
Manganese	107	mg/kg	0.20	6020	05/10/12 15:41	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0056	7471A	05/08/12 13:17	JRT	7439-97-6	
Nickel	3.08	mg/kg	0.20	6020	05/10/12 15:41	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 15:41	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 15:41	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 15:41	PER	7440-28-0	
Vanadium	3.48	mg/kg	0.20	6020	05/10/12 15:41	PER	7440-62-2	
Zinc	3.78	mg/kg	1.0	6020	05/10/12 15:41	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3,000	8082A	05/07/12 14:13	JANB	12674-11-2	Y
PCB-1242	37,000	ug/kg	3,000	8082A	05/07/12 14:13	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	3,000	8082A	05/07/12 14:13	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	3,000	8082A	05/07/12 14:13	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	3,000	8082A	05/07/12 14:13	JANB	12672-29-6	Y
PCB-1254	Not detected	ug/kg	3,000	8082A	05/07/12 14:13	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	3,000	8082A	05/07/12 14:13	JANB	11096-82-5	Y

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	83-32-9	X
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Y-Elevated reporting limit due to high target concentration

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.18 (continued)

Sample Tag: VAP-A5.2-DUP#7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acenaphthylene	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	98-86-2	X
Anthracene	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	120-12-7	X
Atrazine	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	05/07/12 21:58	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	105-60-2	X
Carbazole	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	108-60-1	X
Chrysene	800	ug/kg	800	8270C	05/07/12 21:58	PL	218-01-9	XZ
2,4-Dichlorophenol	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	05/07/12 21:58	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	05/07/12 21:58	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	05/07/12 21:58	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	206-44-0	X
Fluorene	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	193-39-5	X
Isophorone	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	95-48-7	X

X-Elevated reporting limit due to matrix interference

Z-Estimated result due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.18 (continued)

Sample Tag: VAP-A5.2-DUP#7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	05/07/12 21:58	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	05/07/12 21:58	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	85-01-8	X
Phenol	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	108-95-2	X
Pyrene	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	800	8270C	05/07/12 21:58	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.19
Sample Tag: VAP-A5.2-NV119_8-9
Collected Date/Time: 05/02/2012 16:45
Matrix: Water
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.3	IR
1	125ml Plastic	HNO3	Yes	4.3	IR
2	1L Amber	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/07/12 23:32	EMR		
Extraction, PCB	Completed			3510C	05/04/12 15:00	CCM		
Mercury Digestion	Completed			7471A	05/07/12 10:05	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:29	SLS	7440-36-0	
Arsenic, Dissolved	0.020	mg/L	0.002	6020	05/10/12 14:29	SLS	7440-38-2	
Barium, Dissolved	0.199	mg/L	0.010	6020	05/10/12 14:29	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 14:29	SLS	7440-41-7	
Boron, Dissolved	0.25	mg/L	0.04	6020	05/10/12 14:29	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 14:29	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:29	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:29	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:29	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:29	SLS	7439-92-1	
Manganese, Dissolved	0.112	mg/L	0.010	6020	05/10/12 14:29	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/08/12 11:36	JRT	7439-97-6	
Nickel, Dissolved	0.016	mg/L	0.010	6020	05/10/12 14:29	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:29	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 14:29	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:29	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:29	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:29	SLS	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List Dissolved (Column 1)**

PCB-1016	Not detected	ug/L	100	8082A	05/07/12 14:53	JANB	12674-11-2	Y
PCB-1242	800	ug/L	100	8082A	05/07/12 14:53	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/L	100	8082A	05/07/12 14:53	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/L	100	8082A	05/07/12 14:53	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/L	100	8082A	05/07/12 14:53	JANB	12672-29-6	Y
PCB-1254	Not detected	ug/L	100	8082A	05/07/12 14:53	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/L	100	8082A	05/07/12 14:53	JANB	11096-82-5	Y

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.5	8270C	05/08/12 19:50	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.5	8270C	05/08/12 19:50	PL	118-74-1	

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.19 (continued)

Sample Tag: VAP-A5.2-NV119_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	83-32-9	X
Acenaphthylene	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	208-96-8	X
Acetophenone	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	98-86-2	X
Anthracene	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	120-12-7	X
Atrazine	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	84-74-2	X
Benzaldehyde	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/L	100	8270C	05/09/12 21:27	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	7005-72-3	X
Caprolactam	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	105-60-2	X
Carbazole	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	108-60-1	X
Chrysene	80	ug/L	70	8270C	05/09/12 21:27	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	606-20-2	X
4,6-Dinitro-2-methylphenol	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	53-70-3	X
Dibenzofuran	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/L	100	8270C	05/09/12 21:27	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/L	100	8270C	05/09/12 21:27	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	100	8270C	05/09/12 21:27	PL	117-81-7	X
Fluoranthene	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	206-44-0	X
Fluorene	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	86-73-7	X
Hexachlorobutadiene	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	77-47-4	X
Hexachloroethane	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	193-39-5	X
Isophorone	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	91-57-6	X
2-Methylphenol	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	88-74-4	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.19 (continued)

Sample Tag: VAP-A5.2-NV119_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2-Nitrophenol	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	86-30-6	X
Naphthalene	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	91-20-3	X
Nitrobenzene	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	87-86-5	X
Phenanthrene	110	ug/L	70	8270C	05/09/12 21:27	PL	85-01-8	X
Phenol	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	108-95-2	X
Pyrene	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/L	70	8270C	05/09/12 21:27	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.20
Sample Tag: Trip Blank
Collected Date/Time: 05/03/2012 00:01
Matrix: Water
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				05/04/12 09:00	BJB		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.21
Sample Tag: VAP-A5.2-NV119_1-2
Collected Date/Time: 05/02/2012 00:01
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/03/12 22:25	EMR		
BNA Extraction (Replicate 01)	Completed			3550B	05/08/12 23:34	EMR		
Extraction, PCB	Completed			3550B	05/04/12 12:26	CCM		
Mercury Digestion	Completed			7471A	05/07/12 14:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 10:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 15:44	PER	7440-36-0	
Arsenic	1.78	mg/kg	0.10	6020	05/10/12 15:44	PER	7440-38-2	
Barium	29.3	mg/kg	1.0	6020	05/10/12 15:44	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 15:44	PER	7440-41-7	
Boron	4.76	mg/kg	2.0	6020	05/10/12 15:44	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	05/10/12 15:44	PER	7440-43-9	
Chromium	6.57	mg/kg	0.20	6020	05/10/12 15:44	PER	7440-47-3	
Cobalt	1.94	mg/kg	0.20	6020	05/10/12 15:44	PER	7440-48-4	
Copper	7.35	mg/kg	0.20	6020	05/10/12 15:44	PER	7440-50-8	
Lead	17.3	mg/kg	0.20	6020	05/10/12 15:44	PER	7439-92-1	
Manganese	121	mg/kg	0.20	6020	05/10/12 15:44	PER	7439-96-5	
Mercury	0.0190	mg/kg	0.0056	7471A	05/08/12 13:19	JRT	7439-97-6	
Nickel	9.17	mg/kg	0.20	6020	05/10/12 15:44	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 15:44	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 15:44	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 15:44	PER	7440-28-0	
Vanadium	4.58	mg/kg	0.20	6020	05/10/12 15:44	PER	7440-62-2	
Zinc	14.4	mg/kg	1.0	6020	05/10/12 15:44	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	30	8082A	05/07/12 14:23	JANB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	30	8082A	05/07/12 14:23	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	30	8082A	05/07/12 14:23	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	30	8082A	05/07/12 14:23	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	30	8082A	05/07/12 14:23	JANB	12672-29-6	Y
PCB-1254	600	ug/kg	30	8082A	05/07/12 14:23	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	30	8082A	05/07/12 14:23	JANB	11096-82-5	Y

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	83-32-9	
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Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.21 (continued)

Sample Tag: VAP-A5.2-NV119_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acenaphthylene	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	208-96-8	
Acetophenone	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	98-86-2	
Anthracene	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	120-12-7	S
Atrazine	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	1912-24-9	S
1,1'-Biphenyl	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	101-55-3	S
di-n-Butyl phthalate	Not detected	ug/kg	600	8270C	05/07/12 22:32	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	100-52-7	S
Benzo(a)anthracene	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	105-60-2	
Carbazole	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	86-74-8	S
bis(2-Chloroethoxy)methane	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	108-60-1	
Chrysene	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	534-52-1	S
Dibenzo(ah)anthracene	Not detected	ug/kg	600	8270C	05/07/12 22:32	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	600	8270C	05/07/12 22:32	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	600	8270C	05/07/12 22:32	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	206-44-0	S
Fluorene	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	118-74-1	S
Hexachlorobutadiene	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	193-39-5	
Isophorone	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	95-48-7	

S-Surrogate recovery outside of control limits

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.21 (continued)

Sample Tag: VAP-A5.2-NV119_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-, 4-Methylphenol	Not detected	ug/kg	600	8270C	05/07/12 22:32	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	86-30-6	S
Naphthalene	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	600	8270C	05/07/12 22:32	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	87-86-5	S
Phenanthrene	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	85-01-8	S
Phenol	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	108-95-2	
Pyrene	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	300	8270C	05/07/12 22:32	PL	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	208-96-8	
Acetophenone	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	98-86-2	S
Anthracene	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	120-12-7	S
Atrazine	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	1912-24-9	S
1,1'-Biphenyl	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	101-55-3	S
di-n-Butyl phthalate	Not detected	ug/kg	600	8270C	05/10/12 22:11	PL	84-74-2	XS
Benzaldehyde	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	100-52-7	S
Benzo(a)anthracene	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	95-57-8	S
4-Chloro-3-methylphenol	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	105-60-2	
Carbazole	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	86-74-8	S
bis(2-Chloroethoxy)methane	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	111-44-4	S
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	108-60-1	S
Chrysene	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	105-67-9	

S-Surrogate recovery outside of control limits

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52381.21 (continued)

Sample Tag: VAP-A5.2-NV119_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
2,4-Dinitrophenol	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	534-52-1	S
Dibenzo(ah)anthracene	Not detected	ug/kg	600	8270C	05/10/12 22:11	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	600	8270C	05/10/12 22:11	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	600	8270C	05/10/12 22:11	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	206-44-0	S
Fluorene	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	118-74-1	S
Hexachlorobutadiene	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	193-39-5	
Isophorone	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	95-48-7	S
3-, 4-Methylphenol	Not detected	ug/kg	600	8270C	05/10/12 22:11	PL	3/4-Cresol	S
2-Nitroaniline	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	621-64-7	S
N-Nitrosodiphenylamine	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	86-30-6	S
Naphthalene	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	600	8270C	05/10/12 22:11	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	87-86-5	S
Phenanthrene	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	85-01-8	S
Phenol	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	108-95-2	S
Pyrene	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	300	8270C	05/10/12 22:11	PL	88-06-2	

S-Surrogate recovery outside of control limits

X-Elevated reporting limit due to matrix interference

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Send Results to:	Contact & Company Name: Randy Christensen / ARCADIS		Telephone: 810-225-1946		Preservative:													
	Address: 10559 Citation Dr., Suite 100		Fax: 810-229-8837		Filtered (-):													
	City: Brighton, MI 48116		E-mail Address: Randy.Christensen@arcadis-us.com		# of Containers:													
	Project Name/Location (City, State): RACER Trust / Lansing, MI		Project #: B004479.2012.00105		Container Information:													
Sampler's Printed Name: Austin Westhuis		Sampler's Signature: <i>Austin Westhuis</i>		PARAMETER ANALYSIS & METHOD 1,4-dioxane (Total) SVOC's PCB's Metals														
Sample ID		Collection Date Time																Type (✓)
VAP-A5.2-OE129-11-13		5/2/12 0845		X W		W												
VAP-A5.2-OE129-17-18		5/2/12 0915		X SO		SO		✓		✓		✓						
VAP-A5.2-DUP#5		5/2/12 -		X SO		SO		✓		✓		✓						
VAP-A5.2-OE129-22-23		5/2/12 1020		X SO		SO		✓		✓		✓						
VAP-A5.2-OE129-18.5-19.5		5/2/12 1040		X W		W		✓		✓		✓						
VAP-A5.2-Dup#6		5/2/12 -		X SO		SO		✓		✓		✓						
VAP-A5.2-OE129-29-36		5/2/12 1140		X SO		SO		✓		✓		✓						
VAP-A5.2-OE129-36-36.5		5/2/12 1210		X SO		SO		✓		✓		✓						
VAP-A5.2-OE129-33-34		5/2/12 1220		X SO		SO		✓		✓		✓						
VAP-A5.2-OE129-41-42		5/2/12 1230		X SO		SO		✓		✓		✓						
VAP-A5.2-OE129-45-46		5/2/12 1256		X SO		SO		✓		✓		✓						
VAP-A5.2-OE129-51-52		5/2/12 1320		X SO		SO		✓		✓		✓						
VAP-A5.2-OE129-58-59		5/2/12 1325		X SO		SO		✓		✓		✓						
VAP-A5.2-MV19-6-7		5/2/12 1615		X SO		SO		✓		✓		✓						
Special Instructions/Comments: ☐ Special QA/QC Instructions (✓):																		

Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By		Laboratory Received By	
Lab Name: Merit	Cooler Custody Seal (✓) ☐ Intact ☐ Not Intact	Printed Name: Austin Westhuis	Printed Name: Tim Glas	Printed Name:	Printed Name:	Printed Name:	Printed Name:	Printed Name:	Printed Name:
☒ Cooler packed with ice (✓)		Signature: <i>Austin Westhuis</i>	Signature: <i>Tim Glas</i>	Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Specify Turnaround Requirements: Standard	Sample Receipt:	Firm: ARCADIS	Firm/Courier: Merit	Firm/Courier:	Firm/Courier:	Firm/Courier:	Firm/Courier:	Firm/Courier:	Firm/Courier:
Shipping Tracking #:	Condition/Cooler Temp: 4.3	Date/Time: 5/3/12 9:00	Date/Time: 5-3-12 9:00	Date/Time:	Date/Time:	Date/Time:	Date/Time:	Date/Time:	Date/Time:

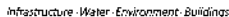
Preservation Key:	Container Information Key:
A. H ₂ SO ₄	1. 40 ml Vial
B. HCl	2. 1 L Amber
C. HNO ₃	3. 250 ml Plastic
D. NaOH	4. 500 ml Plastic
E. None	5. Encores
F. Other: _____	6. 2 oz. Glass
G. Other: _____	7. 4 oz. Glass
H. Other: _____	8. 8 oz. Glass
	9. Other: _____
	10. Other: _____

Matrix Key:	SE - Sediment	SL - NAPL/Oil
SO - Soil	SL - Sludge	SW - Sample Wipe
W - Water	A - Air	Other: _____
T - Tissue		

REMARKS

* Note: Hold water samples for 1,4-dioxane

* MS/MSD for VAP-A5.2-OE129-17-18



ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 2 of 2

Lab Work Order #

[illegible]



Analytical Laboratory Report

Report ID: S52383.01(01)
Generated on 05/03/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52383.01-S52383.07
Project: B0064479.2012/ Lansing Plant 2
Collected Date: 05/01/2012 - 05/03/2012
Submitted Date/Time: 05/03/2012 12:09
Sampled by: Meryl Hicks
P.O. #: PO124047

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (7 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52383.01	VAP-A5.2-NV119_18-19	Soil	05/03/2012 09:10
S52383.02	SB-A5.2-NT111_19-20	Soil	05/03/2012 10:03
S52383.03	VAP-A5.2-NV119_8-9	Soil	05/02/2012 16:35
S52383.04	SB-A5.2-NZ128_4-5	Soil	05/01/2012 09:55
S52383.05	VAP-A5.2-NU137_34-35	Soil	05/01/2012 09:15
S52383.06	SB-A5.2-NZ128_1-2	Soil	05/01/2012 09:50
S52383.07	SB-A5.2-NZ128_16-17	Soil	05/01/2012 11:55



Analytical Laboratory Report

Lab Sample ID: S52383.01
Sample Tag: VAP-A5.2-NV119_18-19
Collected Date/Time: 05/03/2012 09:10
Matrix: Soil
COC Reference: 67644

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	76-13-1	T
Acetone	Not detected	ug/kg	510	5035/8260B	05/03/12 13:22	JGH	67-64-1	T
Carbon disulfide	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	75-15-0	T
Methyl Acetate	Not detected	ug/kg	510	5035/8260B	05/03/12 13:22	JGH	79-20-9	T
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	1634-04-4	T
2-Butanone (MEK)	Not detected	ug/kg	510	5035/8260B	05/03/12 13:22	JGH	78-93-3	T
Dichlorodifluoromethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	75-71-8	T
Chloromethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	74-87-3	T
Vinyl chloride	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	75-01-4	T
Bromomethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	74-83-9	T
Chloroethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	75-00-3	T
Trichlorofluoromethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	75-69-4	T
1,1-Dichloroethene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	75-35-4	T
Methylene chloride	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	75-09-2	T
trans-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	156-60-5	T
1,1-Dichloroethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	75-34-3	T
cis-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	156-59-2	T
Chloroform	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	67-66-3	T
1,1,1-Trichloroethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	71-55-6	T
Cyclohexane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	110-82-7	T
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	510	5035/8260B	05/03/12 13:22	JGH	108-10-1	T
2-Hexanone	Not detected	ug/kg	510	5035/8260B	05/03/12 13:22	JGH	591-78-6	T
Carbon tetrachloride	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	56-23-5	T
Benzene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	71-43-2	T
1,2-Dichloroethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	107-06-2	T
Trichloroethene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	79-01-6	T
1,2-Dichloropropane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	78-87-5	T
Bromodichloromethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	75-27-4	T
Methyl cyclohexane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	108-87-2	T
cis-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	10061-01-5	T
Toluene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	108-88-3	T
trans-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	10061-02-6	T
1,1,2-Trichloroethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	79-00-5	T
Tetrachloroethene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	127-18-4	T
Dibromochloromethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	124-48-1	T
1,2-Dibromoethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	106-93-4	T
Chlorobenzene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	108-90-7	T
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	79-34-5	T
Ethylbenzene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	100-41-4	T
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	05/03/12 13:22	JGH		T
o-Xylene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	95-47-6	T

T-No correction for total solids



Analytical Laboratory Report

Lab Sample ID: S52383.01 (continued)

Sample Tag: VAP-A5.2-NV119_18-19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
Styrene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	100-42-5	T
Isopropylbenzene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	98-82-8	T
Bromoform	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	75-25-2	T
1,3-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	541-73-1	T
1,4-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	106-46-7	T
1,2-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	95-50-1	T
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	96-12-8	T
1,2,4-Trichlorobenzene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:22	JGH	120-82-1	T

T-No correction for total solids



Analytical Laboratory Report

Lab Sample ID: S52383.02
Sample Tag: SB-A5.2-NT111_19-20
Collected Date/Time: 05/03/2012 10:03
Matrix: Soil
COC Reference: 67644

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	76-13-1	T
Acetone	Not detected	ug/kg	520	5035/8260B	05/03/12 13:06	JGH	67-64-1	T
Carbon disulfide	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	75-15-0	T
Methyl Acetate	Not detected	ug/kg	520	5035/8260B	05/03/12 13:06	JGH	79-20-9	T
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	1634-04-4	T
2-Butanone (MEK)	Not detected	ug/kg	520	5035/8260B	05/03/12 13:06	JGH	78-93-3	T
Dichlorodifluoromethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	75-71-8	T
Chloromethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	74-87-3	T
Vinyl chloride	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	75-01-4	T
Bromomethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	74-83-9	T
Chloroethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	75-00-3	T
Trichlorofluoromethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	75-69-4	T
1,1-Dichloroethene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	75-35-4	T
Methylene chloride	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	75-09-2	T
trans-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	156-60-5	T
1,1-Dichloroethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	75-34-3	T
cis-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	156-59-2	T
Chloroform	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	67-66-3	T
1,1,1-Trichloroethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	71-55-6	T
Cyclohexane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	110-82-7	T
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	520	5035/8260B	05/03/12 13:06	JGH	108-10-1	T
2-Hexanone	Not detected	ug/kg	520	5035/8260B	05/03/12 13:06	JGH	591-78-6	T
Carbon tetrachloride	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	56-23-5	T
Benzene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	71-43-2	T
1,2-Dichloroethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	107-06-2	T
Trichloroethene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	79-01-6	T
1,2-Dichloropropane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	78-87-5	T
Bromodichloromethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	75-27-4	T
Methyl cyclohexane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	108-87-2	T
cis-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	10061-01-5	T
Toluene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	108-88-3	T
trans-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	10061-02-6	T
1,1,2-Trichloroethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	79-00-5	T
Tetrachloroethene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	127-18-4	T
Dibromochloromethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	124-48-1	T
1,2-Dibromoethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	106-93-4	T
Chlorobenzene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	108-90-7	T
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	79-34-5	T
Ethylbenzene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	100-41-4	T
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	05/03/12 13:06	JGH		T
o-Xylene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	95-47-6	T

T-No correction for total solids



Analytical Laboratory Report

Lab Sample ID: S52383.02 (continued)

Sample Tag: SB-A5.2-NT111_19-20

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Styrene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	100-42-5	T
Isopropylbenzene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	98-82-8	T
Bromoform	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	75-25-2	T
1,3-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	541-73-1	T
1,4-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	106-46-7	T
1,2-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	95-50-1	T
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	96-12-8	T
1,2,4-Trichlorobenzene	Not detected	ug/kg	50	5035/8260B	05/03/12 13:06	JGH	120-82-1	T

T-No correction for total solids



Analytical Laboratory Report

Lab Sample ID: S52383.03
Sample Tag: VAP-A5.2-NV119_8-9
Collected Date/Time: 05/02/2012 16:35
Matrix: Soil
COC Reference: 67644

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	88	%	1	Std M 2540 B	05/03/12 12:45	JGH		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	76-13-1	
Acetone	Not detected	ug/kg	610	5035/8260B	05/03/12 12:47	JGH	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	75-15-0	
Methyl Acetate	Not detected	ug/kg	610	5035/8260B	05/03/12 12:47	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	610	5035/8260B	05/03/12 12:47	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	74-83-9	
Chloroethane	140	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	610	5035/8260B	05/03/12 12:47	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	610	5035/8260B	05/03/12 12:47	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	100-41-4	



Analytical Laboratory Report

Lab Sample ID: S52383.03 (continued)

Sample Tag: VAP-A5.2-NV119_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	05/03/12 12:47	JGH		
o-Xylene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:47	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S52383.04
Sample Tag: SB-A5.2-NZ128_4-5
Collected Date/Time: 05/01/2012 09:55
Matrix: Soil
COC Reference: 67644

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	88	%	1	Std M 2540 B	05/01/12 16:30	JGH		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	76-13-1	
Acetone	Not detected	ug/kg	610	5035/8260B	05/03/12 13:36	JGH	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	75-15-0	
Methyl Acetate	Not detected	ug/kg	610	5035/8260B	05/03/12 13:36	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	610	5035/8260B	05/03/12 13:36	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	74-83-9	
Chloroethane	150	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	156-60-5	
1,1-Dichloroethane	160	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	610	5035/8260B	05/03/12 13:36	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	610	5035/8260B	05/03/12 13:36	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	100-41-4	



Analytical Laboratory Report

Lab Sample ID: S52383.04 (continued)

Sample Tag: SB-A5.2-NZ128_4-5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	05/03/12 13:36	JGH		
o-Xylene	70	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:36	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S52383.05
Sample Tag: VAP-A5.2-NU137_34-35
Collected Date/Time: 05/01/2012 09:15
Matrix: Soil
COC Reference: 67644

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	91	%	1	Std M 2540 B	05/01/12 16:30	JGH		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	76-13-1	
Acetone	Not detected	ug/kg	610	5035/8260B	05/03/12 12:42	JGH	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	75-15-0	
Methyl Acetate	Not detected	ug/kg	610	5035/8260B	05/03/12 12:42	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	610	5035/8260B	05/03/12 12:42	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	610	5035/8260B	05/03/12 12:42	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	610	5035/8260B	05/03/12 12:42	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	100-41-4	



Analytical Laboratory Report

Lab Sample ID: S52383.05 (continued)

Sample Tag: VAP-A5.2-NU137_34-35

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	05/03/12 12:42	JGH		
o-Xylene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 12:42	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S52383.06
Sample Tag: SB-A5.2-NZ128_1-2
Collected Date/Time: 05/01/2012 09:50
Matrix: Soil
COC Reference: 67644

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	86	%	1	Std M 2540 B	05/01/12 16:30	JGH		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	76-13-1	
Acetone	Not detected	ug/kg	690	5035/8260B	05/03/12 12:49	JGH	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	75-15-0	
Methyl Acetate	Not detected	ug/kg	690	5035/8260B	05/03/12 12:49	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	690	5035/8260B	05/03/12 12:49	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	690	5035/8260B	05/03/12 12:49	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	690	5035/8260B	05/03/12 12:49	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	100-41-4	



Analytical Laboratory Report

Lab Sample ID: S52383.06 (continued)

Sample Tag: SB-A5.2-NZ128_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	05/03/12 12:49	JGH		
o-Xylene	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	05/03/12 12:49	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S52383.07
Sample Tag: SB-A5.2-NZ128_16-17
Collected Date/Time: 05/01/2012 11:55
Matrix: Soil
COC Reference: 67644

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	89	%	1	Std M 2540 B	05/01/12 16:30	JGH		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	76-13-1	
Acetone	Not detected	ug/kg	620	5035/8260B	05/03/12 13:02	JGH	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	75-15-0	
Methyl Acetate	Not detected	ug/kg	620	5035/8260B	05/03/12 13:02	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	620	5035/8260B	05/03/12 13:02	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	620	5035/8260B	05/03/12 13:02	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	620	5035/8260B	05/03/12 13:02	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	100-41-4	



Analytical Laboratory Report

Lab Sample ID: S52383.07 (continued)

Sample Tag: SB-A5.2-NZ128_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	05/03/12 13:02	JGH		
o-Xylene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 13:02	JGH	120-82-1	



67644

INVOICE TOANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications

☐ OHIO VAP ☐ Drinking Water

☐ DoD ☐ NPDES

Project Locations

☐ Detroit ☐ New York

☐ Other _____

Special Instructions

VOCs RUSHRev. 1.15.12



Analytical Laboratory Report

Revised Report

Report ID: S52384.01(03)

Generated on 05/21/2012

Replaces report S52384.01(02) generated on 05/15/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52384.01-S52384.22

Project: B0064479.2012.00105

Collected Date: 05/02/2012

Submitted Date/Time: 05/03/2012 09:05

Sampled by: C. Barton

P.O. #: PO125047

PCB reporting limit lowered

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Revised Report

Sample Summary (22 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52384.01	SB-A5.2-NR128_4-8	Water	05/02/2012 08:50
S52384.02	SB-A5.2-DUP03	Water	05/02/2012 00:01
S52384.03	SB-A5.2-NR128_13-14	Soil	05/02/2012 10:25
S52384.04	SB-A5.2-NR128_17-18	Soil	05/02/2012 10:40
S52384.05	SB-A5.2-NG127_2-3	Soil	05/02/2012 12:25
S52384.06	SB-A5.2-NG127_6-7	Soil	05/02/2012 12:35
S52384.07	SB-A5.2-NG127_6-7 MS	Soil	05/02/2012 12:35
S52384.08	SB-A5.2-NG127_6-7 MSD	Soil	05/02/2012 12:35
S52384.09	SB-A5.2-NG127_13-14	Soil	05/02/2012 12:50
S52384.10	SB-A5.2-NG127_19-20	Soil	05/02/2012 12:55
S52384.11	SB-A5.2-NL121_1-2	Soil	05/02/2012 13:27
S52384.12	SB-A5.2-NL121_5-6	Soil	05/02/2012 14:00
S52384.13	SB-A5.2-NL121_10-11	Soil	05/02/2012 14:10
S52384.14	SB-A5.2-NL121_15-16	Soil	05/02/2012 14:25
S52384.15	SB-A5.2-NL121_20-21	Soil	05/02/2012 14:40
S52384.16	SB-A5.2-NO116_1-2	Soil	05/02/2012 15:40
S52384.17	SB-A5.2-NO116_2-3	Soil	05/02/2012 15:45
S52384.18	SB-A5.2-NO116_7-8	Soil	05/02/2012 16:20
S52384.19	SB-A5.2-NO116_12-13	Soil	05/02/2012 16:30
S52384.20	SB-A5.2-NO116_17-18	Soil	05/02/2012 16:35
S52384.21	SB-A5.2-NO116_22-23	Soil	05/02/2012 17:00
S52384.22	SB-A5.2-DUP04	Soil	05/02/2012 00:01



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.01

Sample Tag: SB-A5.2-NR128_4-8

Collected Date/Time: 05/02/2012 08:50

Matrix: Water

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.3	IR
2	1L Amber	None	Yes	4.3	IR
1	125ml Plastic	HNO3	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/07/12 23:32	EMR		
Extraction, PCB	Completed			3510C	05/07/12 15:28	CCM		
Mercury Digestion	Completed			7471A	05/07/12 10:05	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	0.003	mg/L	0.002	6020	05/10/12 14:33	SLS	7440-36-0	
Arsenic, Dissolved	0.016	mg/L	0.002	6020	05/10/12 14:33	SLS	7440-38-2	
Barium, Dissolved	0.035	mg/L	0.010	6020	05/10/12 14:33	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 14:33	SLS	7440-41-7	
Boron, Dissolved	0.20	mg/L	0.04	6020	05/10/12 14:33	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 14:33	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:33	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:33	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:33	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:33	SLS	7439-92-1	
Manganese, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:33	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/08/12 11:49	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:33	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:33	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 14:33	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:33	SLS	7440-28-0	
Vanadium, Dissolved	0.011	mg/L	0.002	6020	05/10/12 14:33	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:33	SLS	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List Dissolved (Column 1)**

PCB-1016	Not detected	ug/L	0.6	8082A	05/08/12 12:39	JANB	12674-11-2	Y
PCB-1242	4	ug/L	0.6	8082A	05/08/12 12:39	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/L	0.6	8082A	05/08/12 12:39	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/L	0.6	8082A	05/08/12 12:39	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/L	0.6	8082A	05/08/12 12:39	JANB	12672-29-6	Y
PCB-1254	Not detected	ug/L	0.6	8082A	05/08/12 12:39	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/L	0.6	8082A	05/08/12 12:39	JANB	11096-82-5	Y

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/08/12 15:33	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/08/12 15:33	PL	118-74-1	

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.01 (continued)

Sample Tag: SB-A5.2-NR128_4-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	208-96-8	
Acetophenone	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	98-86-2	
Anthracene	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	120-12-7	
Atrazine	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	4	8270C	05/09/12 13:38	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	7005-72-3	
Caprolactam	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	105-60-2	
Carbazole	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	108-60-1	
Chrysene	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	120-83-2	
2,4-Dimethylphenol	3	ug/L	2	8270C	05/09/12 13:38	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	4	8270C	05/09/12 13:38	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	4	8270C	05/09/12 13:38	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	4	8270C	05/09/12 13:38	PL	117-81-7	
Fluoranthene	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	206-44-0	
Fluorene	3	ug/L	2	8270C	05/09/12 13:38	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	193-39-5	
Isophorone	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	95-48-7	
3-, 4-Methylphenol	3	ug/L	2	8270C	05/09/12 13:38	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	88-74-4	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.01 (continued)

Sample Tag: SB-A5.2-NR128_4-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2-Nitrophenol	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	86-30-6	
Naphthalene	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	87-86-5	
Phenanthrene	3	ug/L	2	8270C	05/09/12 13:38	PL	85-01-8	
Phenol	3	ug/L	2	8270C	05/09/12 13:38	PL	108-95-2	
Pyrene	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	2	8270C	05/09/12 13:38	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	100	8260B - SIM	05/11/12 15:13	JGH	123-91-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.02
Sample Tag: SB-A5.2-DUP03
Collected Date/Time: 05/02/2012 00:01
Matrix: Water
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.3	IR
2	1L Amber	None	Yes	4.3	IR
1	125ml Plastic	HNO3	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/07/12 23:32	EMR		
Extraction, PCB	Completed			3510C	05/07/12 15:28	CCM		
Mercury Digestion	Completed			7471A	05/07/12 10:05	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	0.003	mg/L	0.002	6020	05/10/12 14:37	SLS	7440-36-0	
Arsenic, Dissolved	0.016	mg/L	0.002	6020	05/10/12 14:37	SLS	7440-38-2	
Barium, Dissolved	0.034	mg/L	0.010	6020	05/10/12 14:37	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 14:37	SLS	7440-41-7	
Boron, Dissolved	0.20	mg/L	0.04	6020	05/10/12 14:37	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 14:37	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:37	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:37	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:37	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:37	SLS	7439-92-1	
Manganese, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:37	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/08/12 11:47	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:37	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:37	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 14:37	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:37	SLS	7440-28-0	
Vanadium, Dissolved	0.010	mg/L	0.002	6020	05/10/12 14:37	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:37	SLS	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List Dissolved (Column 1)**

PCB-1016	Not detected	ug/L	0.05	8082A	05/08/12 12:50	JANB	12674-11-2	
PCB-1242	1.3	ug/L	0.05	8082A	05/08/12 12:50	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/08/12 12:50	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/08/12 12:50	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/08/12 12:50	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/08/12 12:50	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/08/12 12:50	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/08/12 16:01	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/08/12 16:01	PL	118-74-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.02 (continued)

Sample Tag: SB-A5.2-DUP03

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	208-96-8	
Acetophenone	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	98-86-2	
Anthracene	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	120-12-7	
Atrazine	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	4	8270C	05/09/12 14:08	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	7005-72-3	
Caprolactam	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	105-60-2	
Carbazole	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	108-60-1	
Chrysene	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	120-83-2	
2,4-Dimethylphenol	3	ug/L	2	8270C	05/09/12 14:08	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	4	8270C	05/09/12 14:08	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	4	8270C	05/09/12 14:08	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	4	8270C	05/09/12 14:08	PL	117-81-7	
Fluoranthene	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	206-44-0	
Fluorene	3	ug/L	2	8270C	05/09/12 14:08	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	193-39-5	
Isophorone	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	95-48-7	
3-, 4-Methylphenol	3	ug/L	2	8270C	05/09/12 14:08	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	88-74-4	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.02 (continued)

Sample Tag: SB-A5.2-DUP03

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2-Nitrophenol	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	86-30-6	
Naphthalene	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	87-86-5	
Phenanthrene	3	ug/L	2	8270C	05/09/12 14:08	PL	85-01-8	
Phenol	3	ug/L	2	8270C	05/09/12 14:08	PL	108-95-2	
Pyrene	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	2	8270C	05/09/12 14:08	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	100	8260B - SIM	05/11/12 15:39	JGH	123-91-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.03

Sample Tag: SB-A5.2-NR128_13-14

Collected Date/Time: 05/02/2012 10:25

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/03/12 22:25	EMR		
Extraction, PCB	Completed			3550B	05/07/12 12:17	CCM		
Mercury Digestion	Completed			7471A	05/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 13:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 16:20	PER	7440-36-0	
Arsenic	1.11	mg/kg	0.10	6020	05/10/12 16:20	PER	7440-38-2	
Barium	21.9	mg/kg	1.0	6020	05/10/12 16:20	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 16:20	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 16:20	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 16:20	PER	7440-43-9	
Chromium	3.14	mg/kg	0.20	6020	05/10/12 16:20	PER	7440-47-3	
Cobalt	2.38	mg/kg	0.20	6020	05/10/12 16:20	PER	7440-48-4	
Copper	9.09	mg/kg	0.20	6020	05/10/12 16:20	PER	7440-50-8	
Lead	3.54	mg/kg	0.20	6020	05/10/12 16:20	PER	7439-92-1	
Manganese	236	mg/kg	0.20	6020	05/10/12 16:20	PER	7439-96-5	
Mercury	0.0102	mg/kg	0.0057	7471A	05/08/12 13:35	JRT	7439-97-6	
Nickel	7.41	mg/kg	0.20	6020	05/10/12 16:20	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 16:20	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 16:20	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 16:20	PER	7440-28-0	
Vanadium	4.72	mg/kg	0.20	6020	05/10/12 16:20	PER	7440-62-2	
Zinc	10.1	mg/kg	1.0	6020	05/10/12 16:20	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/07/12 16:11	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/07/12 16:11	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/07/12 16:11	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/07/12 16:11	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/07/12 16:11	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/07/12 16:11	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/07/12 16:11	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.03 (continued)

Sample Tag: SB-A5.2-NR128_13-14

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 21:19	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/07/12 21:19	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 21:19	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/07/12 21:19	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/07/12 21:19	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.03 (continued)

Sample Tag: SB-A5.2-NR128_13-14

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 21:19	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 21:19	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.04
Sample Tag: SB-A5.2-NR128_17-18
Collected Date/Time: 05/02/2012 10:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/03/12 22:25	EMR		
Extraction, PCB	Completed			3550B	05/07/12 12:17	CCM		
Mercury Digestion	Completed			7471A	05/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 13:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 16:23	PER	7440-36-0	
Arsenic	1.42	mg/kg	0.10	6020	05/10/12 16:23	PER	7440-38-2	
Barium	15.1	mg/kg	1.0	6020	05/10/12 16:23	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 16:23	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 16:23	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 16:23	PER	7440-43-9	
Chromium	2.06	mg/kg	0.20	6020	05/10/12 16:23	PER	7440-47-3	
Cobalt	1.50	mg/kg	0.20	6020	05/10/12 16:23	PER	7440-48-4	
Copper	7.03	mg/kg	0.20	6020	05/10/12 16:23	PER	7440-50-8	
Lead	3.21	mg/kg	0.20	6020	05/10/12 16:23	PER	7439-92-1	
Manganese	178	mg/kg	0.20	6020	05/10/12 16:23	PER	7439-96-5	
Mercury	0.0073	mg/kg	0.0054	7471A	05/08/12 13:38	JRT	7439-97-6	
Nickel	5.89	mg/kg	0.20	6020	05/10/12 16:23	PER	7440-02-0	
Selenium	0.21	mg/kg	0.20	6020	05/10/12 16:23	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 16:23	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 16:23	PER	7440-28-0	
Vanadium	2.95	mg/kg	0.20	6020	05/10/12 16:23	PER	7440-62-2	
Zinc	10.9	mg/kg	1.0	6020	05/10/12 16:23	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/07/12 16:22	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/07/12 16:22	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/07/12 16:22	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/07/12 16:22	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/07/12 16:22	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/07/12 16:22	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/07/12 16:22	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.04 (continued)

Sample Tag: SB-A5.2-NR128_17-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 21:48	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/07/12 21:48	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 21:48	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/07/12 21:48	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/07/12 21:48	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.04 (continued)

Sample Tag: SB-A5.2-NR128_17-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 21:48	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 21:48	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.05

Sample Tag: SB-A5.2-NG127_2-3

Collected Date/Time: 05/02/2012 12:25

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/03/12 22:25	EMR		
Extraction, PCB	Completed			3550B	05/07/12 11:54	CCM		
Mercury Digestion	Completed			7471A	05/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 13:00	PER		

Inorganics

Total Solids	78	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 16:26	PER	7440-36-0	
Arsenic	1.76	mg/kg	0.10	6020	05/10/12 16:26	PER	7440-38-2	
Barium	246	mg/kg	1.0	6020	05/10/12 16:26	PER	7440-39-3	
Beryllium	4.05	mg/kg	0.20	6020	05/10/12 16:26	PER	7440-41-7	
Boron	33.9	mg/kg	2.0	6020	05/10/12 16:26	PER	7440-42-8	
Cadmium	0.35	mg/kg	0.10	6020	05/10/12 16:26	PER	7440-43-9	
Chromium	11.9	mg/kg	0.20	6020	05/10/12 16:26	PER	7440-47-3	
Cobalt	2.24	mg/kg	0.20	6020	05/10/12 16:26	PER	7440-48-4	
Copper	28.7	mg/kg	0.20	6020	05/10/12 16:26	PER	7440-50-8	
Lead	51.4	mg/kg	0.20	6020	05/10/12 16:26	PER	7439-92-1	
Manganese	4,030	mg/kg	0.20	6020	05/10/12 16:26	PER	7439-96-5	
Mercury	0.0380	mg/kg	0.0064	7471A	05/08/12 13:40	JRT	7439-97-6	
Nickel	24.1	mg/kg	0.20	6020	05/10/12 16:26	PER	7440-02-0	
Selenium	0.58	mg/kg	0.20	6020	05/10/12 16:26	PER	7782-49-2	
Silver	0.11	mg/kg	0.10	6020	05/10/12 16:26	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 16:26	PER	7440-28-0	
Vanadium	7.76	mg/kg	0.20	6020	05/10/12 16:26	PER	7440-62-2	
Zinc	42.4	mg/kg	1.0	6020	05/10/12 16:26	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/07/12 16:32	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/07/12 16:32	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/07/12 16:32	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/07/12 16:32	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/07/12 16:32	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/07/12 16:32	JANB	11097-69-1	
PCB-1260	15	ug/kg	3	8082A	05/07/12 16:32	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	200	ug/kg	100	8270C	05/07/12 23:16	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	208-96-8	
Acetophenone	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.05 (continued)

Sample Tag: SB-A5.2-NG127_2-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	500	ug/kg	100	8270C	05/07/12 23:16	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	300	8270C	05/07/12 23:16	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	100-52-7	
Benzo(a)anthracene	1,000	ug/kg	100	8270C	05/07/12 23:16	PL	56-55-3	
Benzo(a)pyrene	900	ug/kg	100	8270C	05/07/12 23:16	PL	50-32-8	
Benzo(b)fluoranthene	1,700	ug/kg	100	8270C	05/07/12 23:16	PL	205-99-2	p
Benzo(ghi)perylene	400	ug/kg	100	8270C	05/07/12 23:16	PL	191-24-2	
Benzo(k)fluoranthene	1,800	ug/kg	100	8270C	05/07/12 23:16	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	105-60-2	
Carbazole	200	ug/kg	100	8270C	05/07/12 23:16	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	108-60-1	
Chrysene	1,100	ug/kg	100	8270C	05/07/12 23:16	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	8270C	05/07/12 23:16	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	300	8270C	05/07/12 23:16	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	300	8270C	05/07/12 23:16	PL	117-81-7	
Fluoranthene	1,900	ug/kg	100	8270C	05/07/12 23:16	PL	206-44-0	
Fluorene	200	ug/kg	100	8270C	05/07/12 23:16	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	400	ug/kg	100	8270C	05/07/12 23:16	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	300	8270C	05/07/12 23:16	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	88-75-5	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.05 (continued)

Sample Tag: SB-A5.2-NG127_2-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	86-30-6	
Naphthalene	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	300	8270C	05/07/12 23:16	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	87-86-5	
Phenanthrene	1,400	ug/kg	100	8270C	05/07/12 23:16	PL	85-01-8	
Phenol	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	108-95-2	
Pyrene	1,700	ug/kg	100	8270C	05/07/12 23:16	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	100	8270C	05/07/12 23:16	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.06

Sample Tag: SB-A5.2-NG127_6-7

Collected Date/Time: 05/02/2012 12:35

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:02	EMR		
Extraction, PCB	Completed			3550B	05/07/12 11:54	CCM		
Mercury Digestion	Completed			7471A	05/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 13:00	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 16:28	PER	7440-36-0	
Arsenic	1.45	mg/kg	0.10	6020	05/10/12 16:28	PER	7440-38-2	
Barium	71.8	mg/kg	1.0	6020	05/10/12 16:28	PER	7440-39-3	
Beryllium	0.42	mg/kg	0.20	6020	05/10/12 16:28	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 16:28	PER	7440-42-8	
Cadmium	0.15	mg/kg	0.10	6020	05/10/12 16:28	PER	7440-43-9	
Chromium	4.44	mg/kg	0.20	6020	05/10/12 16:28	PER	7440-47-3	
Cobalt	3.01	mg/kg	0.20	6020	05/10/12 16:28	PER	7440-48-4	
Copper	7.95	mg/kg	0.20	6020	05/10/12 16:28	PER	7440-50-8	
Lead	7.31	mg/kg	0.20	6020	05/10/12 16:28	PER	7439-92-1	
Manganese	188	mg/kg	0.20	6020	05/10/12 16:28	PER	7439-96-5	
Mercury	0.0243	mg/kg	0.0059	7471A	05/08/12 13:56	JRT	7439-97-6	
Nickel	5.17	mg/kg	0.20	6020	05/10/12 16:28	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 16:28	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 16:28	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 16:28	PER	7440-28-0	
Vanadium	8.02	mg/kg	0.20	6020	05/10/12 16:28	PER	7440-62-2	
Zinc	19.2	mg/kg	1.0	6020	05/10/12 16:28	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/07/12 15:40	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/07/12 15:40	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/07/12 15:40	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/07/12 15:40	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/07/12 15:40	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/07/12 15:40	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/07/12 15:40	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.06 (continued)

Sample Tag: SB-A5.2-NG127_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 14:00	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/07/12 14:00	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 14:00	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/07/12 14:00	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/07/12 14:00	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.06 (continued)

Sample Tag: SB-A5.2-NG127_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 14:00	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	85-01-8	
Phenol	70	ug/kg	40	8270C	05/07/12 14:00	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 14:00	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.07

Sample Tag: SB-A5.2-NG127_6-7 MS

Collected Date/Time: 05/02/2012 12:35

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:02	EMR		
Extraction, PCB	Completed			3550B	05/07/12 11:54	CCM		
Mercury Digestion	Completed			7471A	05/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 13:00	PER		

Inorganics

Total Solids	82	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	22.9	mg/kg	0.20	6020	05/10/12 16:34	PER	7440-36-0	
Arsenic	24.7	mg/kg	0.10	6020	05/10/12 16:34	PER	7440-38-2	
Barium	91.4	mg/kg	1.0	6020	05/10/12 16:34	PER	7440-39-3	
Beryllium	23.5	mg/kg	0.20	6020	05/10/12 16:34	PER	7440-41-7	
Boron	22.3	mg/kg	2.0	6020	05/10/12 16:34	PER	7440-42-8	
Cadmium	22.9	mg/kg	0.10	6020	05/10/12 16:34	PER	7440-43-9	
Chromium	28.4	mg/kg	0.20	6020	05/10/12 16:34	PER	7440-47-3	
Cobalt	25.9	mg/kg	0.20	6020	05/10/12 16:34	PER	7440-48-4	
Copper	30.5	mg/kg	0.20	6020	05/10/12 16:34	PER	7440-50-8	
Lead	27.9	mg/kg	0.20	6020	05/10/12 16:34	PER	7439-92-1	
Manganese	210	mg/kg	0.20	6020	05/10/12 16:34	PER	7439-96-5	
Mercury	0.1548	mg/kg	0.0060	7471A	05/08/12 13:58	JRT	7439-97-6	
Nickel	27.7	mg/kg	0.20	6020	05/10/12 16:34	PER	7440-02-0	
Selenium	22.2	mg/kg	0.20	6020	05/10/12 16:34	PER	7782-49-2	
Silver	21.3	mg/kg	0.10	6020	05/10/12 16:34	PER	7440-22-4	
Thallium	20.8	mg/kg	0.20	6020	05/10/12 16:34	PER	7440-28-0	
Vanadium	32.6	mg/kg	0.20	6020	05/10/12 16:34	PER	7440-62-2	
Zinc	41.0	mg/kg	1.0	6020	05/10/12 16:34	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	30	ug/kg	3	8082A	05/07/12 15:50	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/07/12 15:50	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/07/12 15:50	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/07/12 15:50	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/07/12 15:50	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/07/12 15:50	JANB	11097-69-1	
PCB-1260	30	ug/kg	3	8082A	05/07/12 15:50	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,660	ug/kg	40	8270C	05/07/12 14:29	PL	83-32-9	1
Acenaphthylene	1,710	ug/kg	40	8270C	05/07/12 14:29	PL	208-96-8	1

1-Sample spiked at 2.03 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.07 (continued)

Sample Tag: SB-A5.2-NG127_6-7 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	1,740	ug/kg	40	8270C	05/07/12 14:29	PL	98-86-2	1
Anthracene	1,790	ug/kg	40	8270C	05/07/12 14:29	PL	120-12-7	1
Atrazine	2,040	ug/kg	40	8270C	05/07/12 14:29	PL	1912-24-9	1
1,1'-Biphenyl	1,650	ug/kg	40	8270C	05/07/12 14:29	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,780	ug/kg	40	8270C	05/07/12 14:29	PL	101-55-3	1
di-n-Butyl phthalate	1,930	ug/kg	80	8270C	05/07/12 14:29	PL	84-74-2	1
Benzaldehyde	1,460	ug/kg	40	8270C	05/07/12 14:29	PL	100-52-7	1
Benzo(a)anthracene	1,780	ug/kg	40	8270C	05/07/12 14:29	PL	56-55-3	1
Benzo(a)pyrene	1,660	ug/kg	40	8270C	05/07/12 14:29	PL	50-32-8	1
Benzo(b)fluoranthene	1,810	ug/kg	40	8270C	05/07/12 14:29	PL	205-99-2	1
Benzo(ghi)perylene	1,870	ug/kg	40	8270C	05/07/12 14:29	PL	191-24-2	1
Benzo(k)fluoranthene	1,790	ug/kg	40	8270C	05/07/12 14:29	PL	207-08-9	1
Butyl benzyl phthalate	1,900	ug/kg	40	8270C	05/07/12 14:29	PL	85-68-7	1
2-Chloronaphthalene	1,660	ug/kg	40	8270C	05/07/12 14:29	PL	91-58-7	1
2-Chlorophenol	1,630	ug/kg	40	8270C	05/07/12 14:29	PL	95-57-8	1
4-Chloro-3-methylphenol	1,910	ug/kg	40	8270C	05/07/12 14:29	PL	59-50-7	1
4-Chloroaniline	1,730	ug/kg	40	8270C	05/07/12 14:29	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,750	ug/kg	40	8270C	05/07/12 14:29	PL	7005-72-3	1
Caprolactam	1,860	ug/kg	40	8270C	05/07/12 14:29	PL	105-60-2	1
Carbazole	1,840	ug/kg	40	8270C	05/07/12 14:29	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,670	ug/kg	40	8270C	05/07/12 14:29	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,570	ug/kg	40	8270C	05/07/12 14:29	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,560	ug/kg	40	8270C	05/07/12 14:29	PL	108-60-1	1
Chrysene	1,820	ug/kg	40	8270C	05/07/12 14:29	PL	218-01-9	1
2,4-Dichlorophenol	1,730	ug/kg	40	8270C	05/07/12 14:29	PL	120-83-2	1
2,4-Dimethylphenol	1,680	ug/kg	40	8270C	05/07/12 14:29	PL	105-67-9	1
2,4-Dinitrophenol	1,070	ug/kg	40	8270C	05/07/12 14:29	PL	51-28-5	1
2,4-Dinitrotoluene	1,920	ug/kg	40	8270C	05/07/12 14:29	PL	121-14-2	1
2,6-Dinitrotoluene	1,930	ug/kg	40	8270C	05/07/12 14:29	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,930	ug/kg	40	8270C	05/07/12 14:29	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,620	ug/kg	40	8270C	05/07/12 14:29	PL	534-52-1	1
Dibenzo(ah)anthracene	1,850	ug/kg	80	8270C	05/07/12 14:29	PL	53-70-3	1
Dibenzofuran	1,750	ug/kg	40	8270C	05/07/12 14:29	PL	132-64-9	1
Diethyl phthalate	1,890	ug/kg	80	8270C	05/07/12 14:29	PL	84-66-2	1
Dimethyl phthalate	1,830	ug/kg	40	8270C	05/07/12 14:29	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	1,990	ug/kg	80	8270C	05/07/12 14:29	PL	117-81-7	1
Fluoranthene	1,780	ug/kg	40	8270C	05/07/12 14:29	PL	206-44-0	1
Fluorene	1,770	ug/kg	40	8270C	05/07/12 14:29	PL	86-73-7	1
Hexachlorobenzene	1,780	ug/kg	40	8270C	05/07/12 14:29	PL	118-74-1	1
Hexachlorobutadiene	1,550	ug/kg	40	8270C	05/07/12 14:29	PL	87-68-3	1
Hexachlorocyclopentadiene	1,200	ug/kg	40	8270C	05/07/12 14:29	PL	77-47-4	1
Hexachloroethane	1,510	ug/kg	40	8270C	05/07/12 14:29	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,880	ug/kg	40	8270C	05/07/12 14:29	PL	193-39-5	1
Isophorone	1,710	ug/kg	40	8270C	05/07/12 14:29	PL	78-59-1	1
2-Methylnaphthalene	1,590	ug/kg	40	8270C	05/07/12 14:29	PL	91-57-6	1
2-Methylphenol	1,680	ug/kg	40	8270C	05/07/12 14:29	PL	95-48-7	1
3-, 4-Methylphenol	3,620	ug/kg	80	8270C	05/07/12 14:29	PL	3/4-Cresol	1
2-Nitroaniline	1,910	ug/kg	40	8270C	05/07/12 14:29	PL	88-74-4	1

1-Sample spiked at 2.03 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.07 (continued)

Sample Tag: SB-A5.2-NG127_6-7 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	1,680	ug/kg	40	8270C	05/07/12 14:29	PL	88-75-5	1
3-Nitroaniline	1,830	ug/kg	40	8270C	05/07/12 14:29	PL	99-09-2	1
4-Nitroaniline	2,170	ug/kg	40	8270C	05/07/12 14:29	PL	100-01-6	1
4-Nitrophenol	1,860	ug/kg	40	8270C	05/07/12 14:29	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,760	ug/kg	40	8270C	05/07/12 14:29	PL	621-64-7	1
N-Nitrosodiphenylamine	1,530	ug/kg	40	8270C	05/07/12 14:29	PL	86-30-6	1
Naphthalene	1,600	ug/kg	40	8270C	05/07/12 14:29	PL	91-20-3	1
Nitrobenzene	1,650	ug/kg	40	8270C	05/07/12 14:29	PL	98-95-3	1
di-n-Octyl phthalate	1,930	ug/kg	40	8270C	05/07/12 14:29	PL	117-84-0	1
Pentachlorophenol	1,550	ug/kg	40	8270C	05/07/12 14:29	PL	87-86-5	1
Phenanthrene	1,760	ug/kg	40	8270C	05/07/12 14:29	PL	85-01-8	1
Phenol	1,830	ug/kg	40	8270C	05/07/12 14:29	PL	108-95-2	1
Pyrene	1,740	ug/kg	40	8270C	05/07/12 14:29	PL	129-00-0	1
2,4,5-Trichlorophenol	1,900	ug/kg	40	8270C	05/07/12 14:29	PL	95-95-4	1
2,4,6-Trichlorophenol	1,810	ug/kg	40	8270C	05/07/12 14:29	PL	88-06-2	1

1-Sample spiked at 2.03 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.08

Sample Tag: SB-A5.2-NG127_6-7 MSD

Collected Date/Time: 05/02/2012 12:35

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:02	EMR		
Extraction, PCB	Completed			3550B	05/07/12 11:54	CCM		
Mercury Digestion	Completed			7471A	05/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 13:00	PER		

Inorganics

Total Solids	81	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	23.3	mg/kg	0.20	6020	05/10/12 16:40	PER	7440-36-0	
Arsenic	25.1	mg/kg	0.10	6020	05/10/12 16:40	PER	7440-38-2	
Barium	94.7	mg/kg	1.0	6020	05/10/12 16:40	PER	7440-39-3	
Beryllium	24.4	mg/kg	0.20	6020	05/10/12 16:40	PER	7440-41-7	
Boron	22.2	mg/kg	2.0	6020	05/10/12 16:40	PER	7440-42-8	
Cadmium	23.2	mg/kg	0.10	6020	05/10/12 16:40	PER	7440-43-9	
Chromium	28.8	mg/kg	0.20	6020	05/10/12 16:40	PER	7440-47-3	
Cobalt	26.3	mg/kg	0.20	6020	05/10/12 16:40	PER	7440-48-4	
Copper	30.0	mg/kg	0.20	6020	05/10/12 16:40	PER	7440-50-8	
Lead	27.5	mg/kg	0.20	6020	05/10/12 16:40	PER	7439-92-1	
Manganese	213	mg/kg	0.20	6020	05/10/12 16:40	PER	7439-96-5	
Mercury	0.1477	mg/kg	0.0061	7471A	05/08/12 14:01	JRT	7439-97-6	
Nickel	27.3	mg/kg	0.20	6020	05/10/12 16:40	PER	7440-02-0	
Selenium	23.0	mg/kg	0.20	6020	05/10/12 16:40	PER	7782-49-2	
Silver	21.5	mg/kg	0.10	6020	05/10/12 16:40	PER	7440-22-4	
Thallium	20.7	mg/kg	0.20	6020	05/10/12 16:40	PER	7440-28-0	
Vanadium	32.9	mg/kg	0.20	6020	05/10/12 16:40	PER	7440-62-2	
Zinc	40.6	mg/kg	1.0	6020	05/10/12 16:40	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	30	ug/kg	3	8082A	05/07/12 16:01	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/07/12 16:01	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/07/12 16:01	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/07/12 16:01	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/07/12 16:01	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/07/12 16:01	JANB	11097-69-1	
PCB-1260	30	ug/kg	3	8082A	05/07/12 16:01	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,910	ug/kg	40	8270C	05/07/12 14:58	PL	83-32-9	1
Acenaphthylene	1,930	ug/kg	40	8270C	05/07/12 14:58	PL	208-96-8	1

1-Sample spiked at 2.06 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.08 (continued)

Sample Tag: SB-A5.2-NG127_6-7 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	1,970	ug/kg	40	8270C	05/07/12 14:58	PL	98-86-2	1
Anthracene	2,060	ug/kg	40	8270C	05/07/12 14:58	PL	120-12-7	1
Atrazine	2,380	ug/kg	40	8270C	05/07/12 14:58	PL	1912-24-9	1
1,1'-Biphenyl	1,880	ug/kg	40	8270C	05/07/12 14:58	PL	92-52-4	1
4-Bromophenyl phenyl ether	2,050	ug/kg	40	8270C	05/07/12 14:58	PL	101-55-3	1
di-n-Butyl phthalate	2,230	ug/kg	80	8270C	05/07/12 14:58	PL	84-74-2	1
Benzaldehyde	1,610	ug/kg	40	8270C	05/07/12 14:58	PL	100-52-7	1
Benzo(a)anthracene	2,060	ug/kg	40	8270C	05/07/12 14:58	PL	56-55-3	1
Benzo(a)pyrene	1,900	ug/kg	40	8270C	05/07/12 14:58	PL	50-32-8	1
Benzo(b)fluoranthene	2,140	ug/kg	40	8270C	05/07/12 14:58	PL	205-99-2	1
Benzo(ghi)perylene	2,150	ug/kg	40	8270C	05/07/12 14:58	PL	191-24-2	1
Benzo(k)fluoranthene	1,980	ug/kg	40	8270C	05/07/12 14:58	PL	207-08-9	1
Butyl benzyl phthalate	2,220	ug/kg	40	8270C	05/07/12 14:58	PL	85-68-7	1
2-Chloronaphthalene	1,890	ug/kg	40	8270C	05/07/12 14:58	PL	91-58-7	1
2-Chlorophenol	1,830	ug/kg	40	8270C	05/07/12 14:58	PL	95-57-8	1
4-Chloro-3-methylphenol	2,150	ug/kg	40	8270C	05/07/12 14:58	PL	59-50-7	1
4-Chloroaniline	2,000	ug/kg	40	8270C	05/07/12 14:58	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,960	ug/kg	40	8270C	05/07/12 14:58	PL	7005-72-3	1
Caprolactam	2,120	ug/kg	40	8270C	05/07/12 14:58	PL	105-60-2	1
Carbazole	2,150	ug/kg	40	8270C	05/07/12 14:58	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,870	ug/kg	40	8270C	05/07/12 14:58	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,720	ug/kg	40	8270C	05/07/12 14:58	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,740	ug/kg	40	8270C	05/07/12 14:58	PL	108-60-1	1
Chrysene	2,140	ug/kg	40	8270C	05/07/12 14:58	PL	218-01-9	1
2,4-Dichlorophenol	1,990	ug/kg	40	8270C	05/07/12 14:58	PL	120-83-2	1
2,4-Dimethylphenol	1,900	ug/kg	40	8270C	05/07/12 14:58	PL	105-67-9	1
2,4-Dinitrophenol	1,190	ug/kg	40	8270C	05/07/12 14:58	PL	51-28-5	1
2,4-Dinitrotoluene	2,200	ug/kg	40	8270C	05/07/12 14:58	PL	121-14-2	1
2,6-Dinitrotoluene	2,190	ug/kg	40	8270C	05/07/12 14:58	PL	606-20-2	1
3,3'-Dichlorobenzidine	2,300	ug/kg	40	8270C	05/07/12 14:58	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,900	ug/kg	40	8270C	05/07/12 14:58	PL	534-52-1	1
Dibenzo(ah)anthracene	2,120	ug/kg	80	8270C	05/07/12 14:58	PL	53-70-3	1
Dibenzofuran	1,970	ug/kg	40	8270C	05/07/12 14:58	PL	132-64-9	1
Diethyl phthalate	2,160	ug/kg	80	8270C	05/07/12 14:58	PL	84-66-2	1
Dimethyl phthalate	2,080	ug/kg	40	8270C	05/07/12 14:58	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	2,360	ug/kg	80	8270C	05/07/12 14:58	PL	117-81-7	1
Fluoranthene	2,050	ug/kg	40	8270C	05/07/12 14:58	PL	206-44-0	1
Fluorene	2,000	ug/kg	40	8270C	05/07/12 14:58	PL	86-73-7	1
Hexachlorobenzene	2,040	ug/kg	40	8270C	05/07/12 14:58	PL	118-74-1	1
Hexachlorobutadiene	1,720	ug/kg	40	8270C	05/07/12 14:58	PL	87-68-3	1
Hexachlorocyclopentadiene	1,340	ug/kg	40	8270C	05/07/12 14:58	PL	77-47-4	1
Hexachloroethane	1,640	ug/kg	40	8270C	05/07/12 14:58	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	2,150	ug/kg	40	8270C	05/07/12 14:58	PL	193-39-5	1
Isophorone	1,930	ug/kg	40	8270C	05/07/12 14:58	PL	78-59-1	1
2-Methylnaphthalene	1,790	ug/kg	40	8270C	05/07/12 14:58	PL	91-57-6	1
2-Methylphenol	1,900	ug/kg	40	8270C	05/07/12 14:58	PL	95-48-7	1
3-, 4-Methylphenol	4,110	ug/kg	80	8270C	05/07/12 14:58	PL	3/4-Cresol	1
2-Nitroaniline	2,200	ug/kg	40	8270C	05/07/12 14:58	PL	88-74-4	1

1-Sample spiked at 2.06 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.08 (continued)

Sample Tag: SB-A5.2-NG127_6-7 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	1,870	ug/kg	40	8270C	05/07/12 14:58	PL	88-75-5	1
3-Nitroaniline	2,100	ug/kg	40	8270C	05/07/12 14:58	PL	99-09-2	1
4-Nitroaniline	2,460	ug/kg	40	8270C	05/07/12 14:58	PL	100-01-6	1
4-Nitrophenol	2,130	ug/kg	40	8270C	05/07/12 14:58	PL	100-02-7	1
N-Nitrosodi-n-propylamine	2,000	ug/kg	40	8270C	05/07/12 14:58	PL	621-64-7	1
N-Nitrosodiphenylamine	1,780	ug/kg	40	8270C	05/07/12 14:58	PL	86-30-6	1
Naphthalene	1,770	ug/kg	40	8270C	05/07/12 14:58	PL	91-20-3	1
Nitrobenzene	1,820	ug/kg	40	8270C	05/07/12 14:58	PL	98-95-3	1
di-n-Octyl phthalate	2,240	ug/kg	80	8270C	05/07/12 14:58	PL	117-84-0	1
Pentachlorophenol	1,820	ug/kg	40	8270C	05/07/12 14:58	PL	87-86-5	1
Phenanthrene	2,040	ug/kg	40	8270C	05/07/12 14:58	PL	85-01-8	1
Phenol	2,090	ug/kg	40	8270C	05/07/12 14:58	PL	108-95-2	1
Pyrene	2,040	ug/kg	40	8270C	05/07/12 14:58	PL	129-00-0	1
2,4,5-Trichlorophenol	2,160	ug/kg	40	8270C	05/07/12 14:58	PL	95-95-4	1
2,4,6-Trichlorophenol	2,070	ug/kg	40	8270C	05/07/12 14:58	PL	88-06-2	1

1-Sample spiked at 2.06 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.09

Sample Tag: SB-A5.2-NG127_13-14

Collected Date/Time: 05/02/2012 12:50

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/03/12 22:25	EMR		
Extraction, PCB	Completed			3550B	05/07/12 11:54	CCM		
Mercury Digestion	Completed			7471A	05/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 13:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 16:49	PER	7440-36-0	
Arsenic	1.83	mg/kg	0.10	6020	05/10/12 16:49	PER	7440-38-2	
Barium	13.4	mg/kg	1.0	6020	05/10/12 16:49	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 16:49	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 16:49	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 16:49	PER	7440-43-9	
Chromium	2.34	mg/kg	0.20	6020	05/10/12 16:49	PER	7440-47-3	
Cobalt	2.48	mg/kg	0.20	6020	05/10/12 16:49	PER	7440-48-4	
Copper	7.66	mg/kg	0.20	6020	05/10/12 16:49	PER	7440-50-8	
Lead	3.60	mg/kg	0.20	6020	05/10/12 16:49	PER	7439-92-1	
Manganese	247	mg/kg	0.20	6020	05/10/12 16:49	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0056	7471A	05/08/12 13:42	JRT	7439-97-6	
Nickel	8.60	mg/kg	0.20	6020	05/10/12 16:49	PER	7440-02-0	
Selenium	0.23	mg/kg	0.20	6020	05/10/12 16:49	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 16:49	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 16:49	PER	7440-28-0	
Vanadium	3.67	mg/kg	0.20	6020	05/10/12 16:49	PER	7440-62-2	
Zinc	8.24	mg/kg	1.0	6020	05/10/12 16:49	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/07/12 16:43	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/07/12 16:43	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/07/12 16:43	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/07/12 16:43	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/07/12 16:43	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/07/12 16:43	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/07/12 16:43	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.09 (continued)

Sample Tag: SB-A5.2-NG127_13-14

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 22:18	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/07/12 22:18	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 22:18	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/07/12 22:18	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/07/12 22:18	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.09 (continued)

Sample Tag: SB-A5.2-NG127_13-14

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 22:18	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 22:18	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.10
Sample Tag: SB-A5.2-NG127_19-20
Collected Date/Time: 05/02/2012 12:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/03/12 22:25	EMR		
Extraction, PCB	Completed			3550B	05/07/12 11:54	CCM		
Mercury Digestion	Completed			7471A	05/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 13:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 16:52	PER	7440-36-0	
Arsenic	0.88	mg/kg	0.10	6020	05/10/12 16:52	PER	7440-38-2	
Barium	31.5	mg/kg	1.0	6020	05/10/12 16:52	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 16:52	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 16:52	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 16:52	PER	7440-43-9	
Chromium	4.08	mg/kg	0.20	6020	05/10/12 16:52	PER	7440-47-3	
Cobalt	2.60	mg/kg	0.20	6020	05/10/12 16:52	PER	7440-48-4	
Copper	10.9	mg/kg	0.20	6020	05/10/12 16:52	PER	7440-50-8	
Lead	4.57	mg/kg	0.20	6020	05/10/12 16:52	PER	7439-92-1	
Manganese	256	mg/kg	0.20	6020	05/10/12 16:52	PER	7439-96-5	
Mercury	0.0100	mg/kg	0.0055	7471A	05/08/12 13:44	JRT	7439-97-6	
Nickel	8.13	mg/kg	0.20	6020	05/10/12 16:52	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 16:52	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 16:52	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 16:52	PER	7440-28-0	
Vanadium	4.82	mg/kg	0.20	6020	05/10/12 16:52	PER	7440-62-2	
Zinc	12.1	mg/kg	1.0	6020	05/10/12 16:52	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/07/12 16:54	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/07/12 16:54	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/07/12 16:54	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/07/12 16:54	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/07/12 16:54	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/07/12 16:54	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/07/12 16:54	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	98-86-2	



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Lab Sample ID: S52384.10 (continued)

Sample Tag: SB-A5.2-NG127_19-20

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 22:47	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/07/12 22:47	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 22:47	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/07/12 22:47	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/07/12 22:47	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	99-09-2	



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Revised Report

Lab Sample ID: S52384.10 (continued)

Sample Tag: SB-A5.2-NG127_19-20

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 22:47	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 22:47	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.11

Sample Tag: SB-A5.2-NL121_1-2

Collected Date/Time: 05/02/2012 13:27

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:02	EMR		
Extraction, PCB	Completed			3550B	05/07/12 11:54	CCM		
Mercury Digestion	Completed			7471A	05/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 13:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 16:54	PER	7440-36-0	
Arsenic	0.67	mg/kg	0.10	6020	05/10/12 16:54	PER	7440-38-2	
Barium	19.4	mg/kg	1.0	6020	05/10/12 16:54	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 16:54	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 16:54	PER	7440-42-8	
Cadmium	0.12	mg/kg	0.10	6020	05/10/12 16:54	PER	7440-43-9	
Chromium	2.16	mg/kg	0.20	6020	05/10/12 16:54	PER	7440-47-3	
Cobalt	2.77	mg/kg	0.20	6020	05/10/12 16:54	PER	7440-48-4	
Copper	5.00	mg/kg	0.20	6020	05/10/12 16:54	PER	7440-50-8	
Lead	30.3	mg/kg	0.20	6020	05/10/12 16:54	PER	7439-92-1	
Manganese	200	mg/kg	0.20	6020	05/10/12 16:54	PER	7439-96-5	
Mercury	0.0118	mg/kg	0.0054	7471A	05/08/12 13:47	JRT	7439-97-6	
Nickel	3.38	mg/kg	0.20	6020	05/10/12 16:54	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 16:54	PER	7782-49-2	
Silver	0.20	mg/kg	0.10	6020	05/10/12 16:54	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 16:54	PER	7440-28-0	
Vanadium	2.31	mg/kg	0.20	6020	05/10/12 16:54	PER	7440-62-2	
Zinc	12.1	mg/kg	1.0	6020	05/10/12 16:54	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/07/12 17:04	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/07/12 17:04	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/07/12 17:04	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/07/12 17:04	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/07/12 17:04	JANB	12672-29-6	
PCB-1254	10	ug/kg	3	8082A	05/07/12 17:04	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/07/12 17:04	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.11 (continued)

Sample Tag: SB-A5.2-NL121_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 23:45	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	100-52-7	
Benzo(a)anthracene	110	ug/kg	40	8270C	05/07/12 23:45	PL	56-55-3	
Benzo(a)pyrene	130	ug/kg	40	8270C	05/07/12 23:45	PL	50-32-8	I
Benzo(b)fluoranthene	290	ug/kg	40	8270C	05/07/12 23:45	PL	205-99-2	pl
Benzo(ghi)perylene	80	ug/kg	40	8270C	05/07/12 23:45	PL	191-24-2	I
Benzo(k)fluoranthene	290	ug/kg	40	8270C	05/07/12 23:45	PL	207-08-9	pl
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	108-60-1	
Chrysene	130	ug/kg	40	8270C	05/07/12 23:45	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/07/12 23:45	PL	53-70-3	I
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 23:45	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/07/12 23:45	PL	117-81-7	
Fluoranthene	170	ug/kg	40	8270C	05/07/12 23:45	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	80	ug/kg	40	8270C	05/07/12 23:45	PL	193-39-5	I
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/07/12 23:45	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	88-74-4	

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.11 (continued)

Sample Tag: SB-A5.2-NL121_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 23:45	PL	117-84-0	I
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	87-86-5	
Phenanthrene	40	ug/kg	40	8270C	05/07/12 23:45	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	108-95-2	
Pyrene	190	ug/kg	40	8270C	05/07/12 23:45	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 23:45	PL	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/09/12 22:26	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	100-52-7	
Benzo(a)anthracene	80	ug/kg	40	8270C	05/09/12 22:26	PL	56-55-3	
Benzo(a)pyrene	110	ug/kg	40	8270C	05/09/12 22:26	PL	50-32-8	I
Benzo(b)fluoranthene	230	ug/kg	40	8270C	05/09/12 22:26	PL	205-99-2	lp
Benzo(ghi)perylene	60	ug/kg	40	8270C	05/09/12 22:26	PL	191-24-2	I
Benzo(k)fluoranthene	230	ug/kg	40	8270C	05/09/12 22:26	PL	207-08-9	lp
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	108-60-1	
Chrysene	110	ug/kg	40	8270C	05/09/12 22:26	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	121-14-2	

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.11 (continued)

Sample Tag: SB-A5.2-NL121_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/09/12 22:26	PL	53-70-3	I
Dibenzofuran	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/09/12 22:26	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/09/12 22:26	PL	117-81-7	
Fluoranthene	130	ug/kg	40	8270C	05/09/12 22:26	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	60	ug/kg	40	8270C	05/09/12 22:26	PL	193-39-5	I
Isophorone	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/09/12 22:26	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/09/12 22:26	PL	117-84-0	I
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	108-95-2	
Pyrene	140	ug/kg	40	8270C	05/09/12 22:26	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/09/12 22:26	PL	88-06-2	

I-Matrix interference with internal standard



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.12

Sample Tag: SB-A5.2-NL121_5-6

Collected Date/Time: 05/02/2012 14:00

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:02	EMR		
Extraction, PCB	Completed			3550B	05/07/12 11:54	CCM		
Mercury Digestion	Completed			7471A	05/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 13:00	PER		

Inorganics

Total Solids	84	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 16:56	PER	7440-36-0	
Arsenic	0.48	mg/kg	0.10	6020	05/10/12 16:56	PER	7440-38-2	
Barium	15.3	mg/kg	1.0	6020	05/10/12 16:56	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 16:56	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 16:56	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 16:56	PER	7440-43-9	
Chromium	2.24	mg/kg	0.20	6020	05/10/12 16:56	PER	7440-47-3	
Cobalt	1.91	mg/kg	0.20	6020	05/10/12 16:56	PER	7440-48-4	
Copper	2.49	mg/kg	0.20	6020	05/10/12 16:56	PER	7440-50-8	
Lead	9.44	mg/kg	0.20	6020	05/10/12 16:56	PER	7439-92-1	
Manganese	91.6	mg/kg	0.20	6020	05/10/12 16:56	PER	7439-96-5	
Mercury	0.0074	mg/kg	0.0058	7471A	05/08/12 13:49	JRT	7439-97-6	
Nickel	1.92	mg/kg	0.20	6020	05/10/12 16:56	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 16:56	PER	7782-49-2	
Silver	0.10	mg/kg	0.10	6020	05/10/12 16:56	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 16:56	PER	7440-28-0	
Vanadium	2.05	mg/kg	0.20	6020	05/10/12 16:56	PER	7440-62-2	
Zinc	4.63	mg/kg	1.0	6020	05/10/12 16:56	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/07/12 17:15	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/07/12 17:15	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/07/12 17:15	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/07/12 17:15	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/07/12 17:15	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/07/12 17:15	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/07/12 17:15	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.12 (continued)

Sample Tag: SB-A5.2-NL121_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 15:27	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/07/12 15:27	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 15:27	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/07/12 15:27	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/07/12 15:27	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.12 (continued)

Sample Tag: SB-A5.2-NL121_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/07/12 15:27	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 15:27	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.13

Sample Tag: SB-A5.2-NL121_10-11

Collected Date/Time: 05/02/2012 14:10

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:02	EMR		
Extraction, PCB	Completed			3550B	05/07/12 11:54	CCM		
Mercury Digestion	Completed			7471A	05/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 13:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 16:59	PER	7440-36-0	
Arsenic	1.99	mg/kg	0.10	6020	05/10/12 16:59	PER	7440-38-2	
Barium	28.8	mg/kg	1.0	6020	05/10/12 16:59	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 16:59	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 16:59	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	05/10/12 16:59	PER	7440-43-9	
Chromium	3.02	mg/kg	0.20	6020	05/10/12 16:59	PER	7440-47-3	
Cobalt	2.70	mg/kg	0.20	6020	05/10/12 16:59	PER	7440-48-4	
Copper	11.2	mg/kg	0.20	6020	05/10/12 16:59	PER	7440-50-8	
Lead	5.43	mg/kg	0.20	6020	05/10/12 16:59	PER	7439-92-1	
Manganese	275	mg/kg	0.20	6020	05/10/12 16:59	PER	7439-96-5	
Mercury	0.0099	mg/kg	0.0057	7471A	05/08/12 13:51	JRT	7439-97-6	
Nickel	7.94	mg/kg	0.20	6020	05/10/12 16:59	PER	7440-02-0	
Selenium	0.34	mg/kg	0.20	6020	05/10/12 16:59	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 16:59	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 16:59	PER	7440-28-0	
Vanadium	5.12	mg/kg	0.20	6020	05/10/12 16:59	PER	7440-62-2	
Zinc	12.8	mg/kg	1.0	6020	05/10/12 16:59	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/07/12 17:25	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/07/12 17:25	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/07/12 17:25	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/07/12 17:25	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/07/12 17:25	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/07/12 17:25	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/07/12 17:25	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.13 (continued)

Sample Tag: SB-A5.2-NL121_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 15:57	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/07/12 15:57	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 15:57	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/07/12 15:57	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/07/12 15:57	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.13 (continued)

Sample Tag: SB-A5.2-NL121_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 15:57	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 15:57	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.14

Sample Tag: SB-A5.2-NL121_15-16

Collected Date/Time: 05/02/2012 14:25

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:02	EMR		
Extraction, PCB	Completed			3550B	05/07/12 11:54	CCM		
Mercury Digestion	Completed			7471A	05/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 13:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 17:01	PER	7440-36-0	
Arsenic	1.82	mg/kg	0.10	6020	05/10/12 17:01	PER	7440-38-2	
Barium	26.6	mg/kg	1.0	6020	05/10/12 17:01	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 17:01	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 17:01	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 17:01	PER	7440-43-9	
Chromium	2.89	mg/kg	0.20	6020	05/10/12 17:01	PER	7440-47-3	
Cobalt	2.60	mg/kg	0.20	6020	05/10/12 17:01	PER	7440-48-4	
Copper	9.43	mg/kg	0.20	6020	05/10/12 17:01	PER	7440-50-8	
Lead	3.84	mg/kg	0.20	6020	05/10/12 17:01	PER	7439-92-1	
Manganese	239	mg/kg	0.20	6020	05/10/12 17:01	PER	7439-96-5	
Mercury	0.0093	mg/kg	0.0056	7471A	05/08/12 13:54	JRT	7439-97-6	
Nickel	8.05	mg/kg	0.20	6020	05/10/12 17:01	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 17:01	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 17:01	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 17:01	PER	7440-28-0	
Vanadium	4.61	mg/kg	0.20	6020	05/10/12 17:01	PER	7440-62-2	
Zinc	11.4	mg/kg	1.0	6020	05/10/12 17:01	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/07/12 17:36	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/07/12 17:36	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/07/12 17:36	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/07/12 17:36	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/07/12 17:36	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/07/12 17:36	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/07/12 17:36	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.14 (continued)

Sample Tag: SB-A5.2-NL121_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 16:26	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/07/12 16:26	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 16:26	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/07/12 16:26	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/07/12 16:26	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.14 (continued)

Sample Tag: SB-A5.2-NL121_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 16:26	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 16:26	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.15

Sample Tag: SB-A5.2-NL121_20-21

Collected Date/Time: 05/02/2012 14:40

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:02	EMR		
Extraction, PCB	Completed			3550B	05/07/12 11:54	CCM		
Mercury Digestion	Completed			7471A	05/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 13:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 17:03	PER	7440-36-0	
Arsenic	2.17	mg/kg	0.10	6020	05/10/12 17:03	PER	7440-38-2	
Barium	16.8	mg/kg	1.0	6020	05/10/12 17:03	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 17:03	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 17:03	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 17:03	PER	7440-43-9	
Chromium	2.97	mg/kg	0.20	6020	05/10/12 17:03	PER	7440-47-3	
Cobalt	2.33	mg/kg	0.20	6020	05/10/12 17:03	PER	7440-48-4	
Copper	8.40	mg/kg	0.20	6020	05/10/12 17:03	PER	7440-50-8	
Lead	3.82	mg/kg	0.20	6020	05/10/12 17:03	PER	7439-92-1	
Manganese	227	mg/kg	0.20	6020	05/10/12 17:03	PER	7439-96-5	
Mercury	0.0086	mg/kg	0.0057	7471A	05/08/12 14:09	JRT	7439-97-6	
Nickel	7.28	mg/kg	0.20	6020	05/10/12 17:03	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 17:03	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 17:03	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 17:03	PER	7440-28-0	
Vanadium	4.07	mg/kg	0.20	6020	05/10/12 17:03	PER	7440-62-2	
Zinc	10.7	mg/kg	1.0	6020	05/10/12 17:03	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/07/12 17:46	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/07/12 17:46	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/07/12 17:46	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/07/12 17:46	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/07/12 17:46	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/07/12 17:46	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/07/12 17:46	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.15 (continued)

Sample Tag: SB-A5.2-NL121_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 16:55	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/07/12 16:55	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 16:55	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/07/12 16:55	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/07/12 16:55	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.15 (continued)

Sample Tag: SB-A5.2-NL121_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 16:55	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 16:55	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.16
Sample Tag: SB-A5.2-NO116_1-2
Collected Date/Time: 05/02/2012 15:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:02	EMR		
Extraction, PCB	Completed			3550B	05/07/12 11:54	CCM		
Mercury Digestion	Completed			7471A	05/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 13:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 17:14	PER	7440-36-0	
Arsenic	0.72	mg/kg	0.10	6020	05/10/12 17:14	PER	7440-38-2	
Barium	12.6	mg/kg	1.0	6020	05/10/12 17:14	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 17:14	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 17:14	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 17:14	PER	7440-43-9	
Chromium	1.69	mg/kg	0.20	6020	05/10/12 17:14	PER	7440-47-3	
Cobalt	1.52	mg/kg	0.20	6020	05/10/12 17:14	PER	7440-48-4	
Copper	1.80	mg/kg	0.20	6020	05/10/12 17:14	PER	7440-50-8	
Lead	2.76	mg/kg	0.20	6020	05/10/12 17:14	PER	7439-92-1	
Manganese	156	mg/kg	0.20	6020	05/10/12 17:14	PER	7439-96-5	
Mercury	0.0095	mg/kg	0.0055	7471A	05/08/12 14:12	JRT	7439-97-6	
Nickel	2.80	mg/kg	0.20	6020	05/10/12 17:14	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 17:14	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 17:14	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 17:14	PER	7440-28-0	
Vanadium	2.70	mg/kg	0.20	6020	05/10/12 17:14	PER	7440-62-2	
Zinc	4.68	mg/kg	1.0	6020	05/10/12 17:14	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/07/12 20:04	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/07/12 20:04	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/07/12 20:04	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/07/12 20:04	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/07/12 20:04	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/07/12 20:04	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/07/12 20:04	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.16 (continued)

Sample Tag: SB-A5.2-NO116_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 17:25	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/07/12 17:25	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 17:25	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/07/12 17:25	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/07/12 17:25	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.16 (continued)

Sample Tag: SB-A5.2-NO116_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 17:25	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 17:25	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.17

Sample Tag: SB-A5.2-NO116_2-3

Collected Date/Time: 05/02/2012 15:45

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:02	EMR		
Extraction, PCB	Completed			3550B	05/07/12 11:54	CCM		
Mercury Digestion	Completed			7471A	05/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 13:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 17:17	PER	7440-36-0	
Arsenic	0.66	mg/kg	0.10	6020	05/10/12 17:17	PER	7440-38-2	
Barium	13.8	mg/kg	1.0	6020	05/10/12 17:17	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 17:17	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 17:17	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 17:17	PER	7440-43-9	
Chromium	1.58	mg/kg	0.20	6020	05/10/12 17:17	PER	7440-47-3	
Cobalt	1.82	mg/kg	0.20	6020	05/10/12 17:17	PER	7440-48-4	
Copper	1.65	mg/kg	0.20	6020	05/10/12 17:17	PER	7440-50-8	
Lead	3.09	mg/kg	0.20	6020	05/10/12 17:17	PER	7439-92-1	
Manganese	170	mg/kg	0.20	6020	05/10/12 17:17	PER	7439-96-5	
Mercury	0.0073	mg/kg	0.0056	7471A	05/08/12 14:15	JRT	7439-97-6	
Nickel	3.96	mg/kg	0.20	6020	05/10/12 17:17	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 17:17	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 17:17	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 17:17	PER	7440-28-0	
Vanadium	2.24	mg/kg	0.20	6020	05/10/12 17:17	PER	7440-62-2	
Zinc	6.95	mg/kg	1.0	6020	05/10/12 17:17	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/07/12 20:14	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/07/12 20:14	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/07/12 20:14	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/07/12 20:14	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/07/12 20:14	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/07/12 20:14	JANB	11097-69-1	
PCB-1260	40	ug/kg	3	8082A	05/07/12 20:14	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.17 (continued)

Sample Tag: SB-A5.2-NO116_2-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 17:54	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	205-99-2	
Benzo(ghi)perylene	60	ug/kg	40	8270C	05/07/12 17:54	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/07/12 17:54	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 17:54	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/07/12 17:54	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	60	ug/kg	40	8270C	05/07/12 17:54	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/07/12 17:54	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.17 (continued)

Sample Tag: SB-A5.2-NO116_2-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 17:54	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 17:54	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.18
Sample Tag: SB-A5.2-NO116_7-8
Collected Date/Time: 05/02/2012 16:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:02	EMR		
Extraction, PCB	Completed			3550B	05/07/12 11:54	CCM		
Mercury Digestion	Completed			7471A	05/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 13:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 17:20	PER	7440-36-0	
Arsenic	0.88	mg/kg	0.10	6020	05/10/12 17:20	PER	7440-38-2	
Barium	16.0	mg/kg	1.0	6020	05/10/12 17:20	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 17:20	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 17:20	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 17:20	PER	7440-43-9	
Chromium	2.59	mg/kg	0.20	6020	05/10/12 17:20	PER	7440-47-3	
Cobalt	1.90	mg/kg	0.20	6020	05/10/12 17:20	PER	7440-48-4	
Copper	3.33	mg/kg	0.20	6020	05/10/12 17:20	PER	7440-50-8	
Lead	2.42	mg/kg	0.20	6020	05/10/12 17:20	PER	7439-92-1	
Manganese	150	mg/kg	0.20	6020	05/10/12 17:20	PER	7439-96-5	
Mercury	0.0063	mg/kg	0.0055	7471A	05/08/12 14:17	JRT	7439-97-6	
Nickel	5.33	mg/kg	0.20	6020	05/10/12 17:20	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 17:20	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 17:20	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 17:20	PER	7440-28-0	
Vanadium	5.17	mg/kg	0.20	6020	05/10/12 17:20	PER	7440-62-2	
Zinc	8.02	mg/kg	1.0	6020	05/10/12 17:20	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/07/12 20:25	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/07/12 20:25	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/07/12 20:25	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/07/12 20:25	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/07/12 20:25	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/07/12 20:25	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/07/12 20:25	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.18 (continued)

Sample Tag: SB-A5.2-NO116_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 18:23	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/07/12 18:23	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 18:23	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/07/12 18:23	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/07/12 18:23	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.18 (continued)

Sample Tag: SB-A5.2-NO116_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 18:23	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 18:23	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.19

Sample Tag: SB-A5.2-NO116_12-13

Collected Date/Time: 05/02/2012 16:30

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:02	EMR		
Extraction, PCB	Completed			3550B	05/07/12 11:54	CCM		
Mercury Digestion	Completed			7471A	05/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 13:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 17:22	PER	7440-36-0	
Arsenic	0.40	mg/kg	0.10	6020	05/10/12 17:22	PER	7440-38-2	
Barium	18.7	mg/kg	1.0	6020	05/10/12 17:22	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 17:22	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 17:22	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 17:22	PER	7440-43-9	
Chromium	3.27	mg/kg	0.20	6020	05/10/12 17:22	PER	7440-47-3	
Cobalt	2.94	mg/kg	0.20	6020	05/10/12 17:22	PER	7440-48-4	
Copper	7.35	mg/kg	0.20	6020	05/10/12 17:22	PER	7440-50-8	
Lead	3.60	mg/kg	0.20	6020	05/10/12 17:22	PER	7439-92-1	
Manganese	572	mg/kg	0.20	6020	05/10/12 17:22	PER	7439-96-5	
Mercury	0.0104	mg/kg	0.0055	7471A	05/08/12 14:19	JRT	7439-97-6	
Nickel	7.98	mg/kg	0.20	6020	05/10/12 17:22	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 17:22	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 17:22	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 17:22	PER	7440-28-0	
Vanadium	4.69	mg/kg	0.20	6020	05/10/12 17:22	PER	7440-62-2	
Zinc	10.7	mg/kg	1.0	6020	05/10/12 17:22	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/07/12 20:35	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/07/12 20:35	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/07/12 20:35	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/07/12 20:35	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/07/12 20:35	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/07/12 20:35	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/07/12 20:35	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	98-86-2	



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Lab Sample ID: S52384.19 (continued)

Sample Tag: SB-A5.2-NO116_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 18:53	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/07/12 18:53	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 18:53	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/07/12 18:53	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/07/12 18:53	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	99-09-2	



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Revised Report

Lab Sample ID: S52384.19 (continued)

Sample Tag: SB-A5.2-NO116_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 18:53	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 18:53	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.20
Sample Tag: SB-A5.2-NO116_17-18
Collected Date/Time: 05/02/2012 16:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:02	EMR		
Extraction, PCB	Completed			3550B	05/07/12 11:54	CCM		
Mercury Digestion	Completed			7471A	05/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 13:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 17:25	PER	7440-36-0	
Arsenic	1.05	mg/kg	0.10	6020	05/10/12 17:25	PER	7440-38-2	
Barium	12.5	mg/kg	1.0	6020	05/10/12 17:25	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 17:25	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 17:25	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 17:25	PER	7440-43-9	
Chromium	2.97	mg/kg	0.20	6020	05/10/12 17:25	PER	7440-47-3	
Cobalt	2.37	mg/kg	0.20	6020	05/10/12 17:25	PER	7440-48-4	
Copper	8.13	mg/kg	0.20	6020	05/10/12 17:25	PER	7440-50-8	
Lead	3.70	mg/kg	0.20	6020	05/10/12 17:25	PER	7439-92-1	
Manganese	252	mg/kg	0.20	6020	05/10/12 17:25	PER	7439-96-5	
Mercury	0.0110	mg/kg	0.0053	7471A	05/08/12 14:22	JRT	7439-97-6	
Nickel	7.59	mg/kg	0.20	6020	05/10/12 17:25	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 17:25	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 17:25	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 17:25	PER	7440-28-0	
Vanadium	4.08	mg/kg	0.20	6020	05/10/12 17:25	PER	7440-62-2	
Zinc	13.2	mg/kg	1.0	6020	05/10/12 17:25	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/07/12 20:46	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/07/12 20:46	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/07/12 20:46	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/07/12 20:46	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/07/12 20:46	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/07/12 20:46	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/07/12 20:46	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.20 (continued)

Sample Tag: SB-A5.2-NO116_17-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 19:22	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/07/12 19:22	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 19:22	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/07/12 19:22	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/07/12 19:22	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.20 (continued)

Sample Tag: SB-A5.2-NO116_17-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	100-01-6	
4-Nitrophenol	50	ug/kg	40	8270C	05/07/12 19:22	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 19:22	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 19:22	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.21

Sample Tag: SB-A5.2-NO116_22-23

Collected Date/Time: 05/02/2012 17:00

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:02	EMR		
Extraction, PCB	Completed			3550B	05/07/12 11:54	CCM		
Mercury Digestion	Completed			7471A	05/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 13:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 17:28	PER	7440-36-0	
Arsenic	1.74	mg/kg	0.10	6020	05/10/12 17:28	PER	7440-38-2	
Barium	15.2	mg/kg	1.0	6020	05/10/12 17:28	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 17:28	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 17:28	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 17:28	PER	7440-43-9	
Chromium	2.43	mg/kg	0.20	6020	05/10/12 17:28	PER	7440-47-3	
Cobalt	2.56	mg/kg	0.20	6020	05/10/12 17:28	PER	7440-48-4	
Copper	7.45	mg/kg	0.20	6020	05/10/12 17:28	PER	7440-50-8	
Lead	3.58	mg/kg	0.20	6020	05/10/12 17:28	PER	7439-92-1	
Manganese	242	mg/kg	0.20	6020	05/10/12 17:28	PER	7439-96-5	
Mercury	0.0083	mg/kg	0.0054	7471A	05/08/12 14:24	JRT	7439-97-6	
Nickel	7.89	mg/kg	0.20	6020	05/10/12 17:28	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 17:28	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 17:28	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 17:28	PER	7440-28-0	
Vanadium	4.02	mg/kg	0.20	6020	05/10/12 17:28	PER	7440-62-2	
Zinc	10.8	mg/kg	1.0	6020	05/10/12 17:28	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/07/12 20:57	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/07/12 20:57	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/07/12 20:57	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/07/12 20:57	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/07/12 20:57	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/07/12 20:57	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/07/12 20:57	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.21 (continued)

Sample Tag: SB-A5.2-NO116_22-23

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 19:51	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/07/12 19:51	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 19:51	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/07/12 19:51	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/07/12 19:51	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.21 (continued)

Sample Tag: SB-A5.2-NO116_22-23

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 19:51	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 19:51	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.22
Sample Tag: SB-A5.2-DUP04
Collected Date/Time: 05/02/2012 00:01
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:02	EMR		
Extraction, PCB	Completed			3550B	05/07/12 11:54	CCM		
Mercury Digestion	Completed			7471A	05/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/10/12 13:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/03/12 15:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/10/12 17:31	PER	7440-36-0	
Arsenic	0.73	mg/kg	0.10	6020	05/10/12 17:31	PER	7440-38-2	
Barium	13.2	mg/kg	1.0	6020	05/10/12 17:31	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/10/12 17:31	PER	7440-41-7	
Boron	Not detected	mg/kg	2.0	6020	05/10/12 17:31	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/10/12 17:31	PER	7440-43-9	
Chromium	1.60	mg/kg	0.20	6020	05/10/12 17:31	PER	7440-47-3	
Cobalt	1.64	mg/kg	0.20	6020	05/10/12 17:31	PER	7440-48-4	
Copper	1.95	mg/kg	0.20	6020	05/10/12 17:31	PER	7440-50-8	
Lead	4.00	mg/kg	0.20	6020	05/10/12 17:31	PER	7439-92-1	
Manganese	142	mg/kg	0.20	6020	05/10/12 17:31	PER	7439-96-5	
Mercury	0.0137	mg/kg	0.0055	7471A	05/08/12 14:26	JRT	7439-97-6	
Nickel	4.78	mg/kg	0.20	6020	05/10/12 17:31	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/10/12 17:31	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/10/12 17:31	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/10/12 17:31	PER	7440-28-0	
Vanadium	1.91	mg/kg	0.20	6020	05/10/12 17:31	PER	7440-62-2	
Zinc	10.1	mg/kg	1.0	6020	05/10/12 17:31	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/07/12 21:07	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/07/12 21:07	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/07/12 21:07	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/07/12 21:07	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/07/12 21:07	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/07/12 21:07	JANB	11097-69-1	
PCB-1260	50	ug/kg	3	8082A	05/07/12 21:07	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.22 (continued)

Sample Tag: SB-A5.2-DUP04

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 20:20	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	205-99-2	
Benzo(ghi)perylene	50	ug/kg	40	8270C	05/07/12 20:20	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/07/12 20:20	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 20:20	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/07/12 20:20	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	50	ug/kg	40	8270C	05/07/12 20:20	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/07/12 20:20	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52384.22 (continued)

Sample Tag: SB-A5.2-DUP04

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 20:20	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 20:20	PL	88-06-2	



Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 2Project Number/Name B0064479.2012.00105 RACERProject Location Lansing, MILaboratory MeritProject Manager Randy ChristensenSampler(s)/Affiliation C. Barton / Arcadis

				ANALYSIS / METHOD / SIZE					Remarks	Total
Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	VOCs-4-Dioxane	SVOCS	Metals	PCBs			
01 SB-AS.2-NR128-4-8	L	5-2-12 0850		2	1	1	1		Metals, SVOCS & PCBs Field Filtered	5
02 SB-AS.2-DU03	L			2	1	1	1		Metals, SVOCS & PCBs Field Filtered	5
03 SB-AS.2-NR128-13-14	S	5-2-12 1025			X	X	X			1
04 SB-AS.2-NR128-17-18	S	5-2-12 1040			X	X	X			1
05 SB-AS.2-NR127-2-3	S	5-2-12 1225			X	X	X			1
06 SB-AS.2-NR127-6-7	S	5-2-12 1235			X	X	X		MS/MSD	3
09 SB-AS.2-NR127-13-14	S	5-2-12 1250			X	X	X			1
10 SB-AS.2-NR127-17-20	S	5-2-12 1255			X	X	X			1
11 SB-AS.2-NL121-1-2	S	5-2-12 1327			X	X	X			1
12 SB-AS.2-NL121-5-6	S	5-2-12 1400			X	X	X			1
13 SB-AS.2-NL121-10-11	S	5-2-12 1410			X	X	X			1
14 SB-AS.2-NL121-15-16	S	5-2-12 1425			X	X	X			1
15 SB-AS.2-NL121-20-21	S	5-2-12 1440			X	X	X			1
16 SB-AS.2-NR116-1-2	S	5-2-12 1540			X	X	X			1
17 SB-AS.2-NR116-2-3	S	5-2-12 1545			X	X	X			1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 25

Relinquished by: <u>Mary Ann Hink</u>	Organization: <u>ARCADIS</u>	Date: <u>5/3/12</u>	Time: <u>9:00</u>	Seal Intact?
Received by: <u>[Signature]</u>	Organization: <u>Merit</u>	Date: <u>5/3/12</u>	Time: <u>9:00</u>	Yes No N/A
Relinquished by: <u>[Signature]</u>	Organization: _____	Date: <u>5/3/12</u>	Time: <u>9:05</u>	Seal Intact?
Received by: <u>[Signature]</u>	Organization: <u>MERIT</u>	Date: <u>5/3/12</u>	Time: <u>9:05</u>	Yes No N/A

Special Instructions/Remarks: * HOLD groundwater VOC samples for 1-4, DioxaneDelivery Method: ☐ In Person☐ Common Carrier☒ Lab Courier☐ Other

SPECIFY

SPECIFY

AG 05-12/01

Project Number/Name B006447-2012.00105 RAKER

Project Location Lansing, MI

Laboratory Ment +

Project Manager Randy Christensen

Sampler(s)/Affiliation C. Barber / Arcadia's

ANALYSIS / METHOD / SIZE

~~Doc~~ CB

5 VOCs

Metals

0085

/

1

—

Sample ID/Location

Matrix

Date/Time
Sampled

Lab ID

Remarks

Total

S.B.-AS.2-N0116-7-B	S	S-2-12 16202			X	X	X					1
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S	S-2-12/630			X	X	X						
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[illegible][illegible]

SB-ASA-DuPo4	S				X	X	X					1
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Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/
Containers

Relinquished by: Mary G. [Signature] Organization: ARCADIS Date 5/3/12 Time 9:00 Seal Intact? ☒

Received by: SH Organization: ME Date 5/3/12 Time 9:00 Yes No N/A

Relinquished by: [Signature] Organization: 110017 Date 1/3/17 Time 0905 Seal Intact? Yes

Received by: [Signature] Organization: [Signature] Date 5/2/10 Time 0905 Yes No N/A
Special Instructions/Remarks:

Delivery Method: ☐ In Person

☐ Common Carrier.

☐ Lab Courier☐ Other

SPECIFY

SPECIFY

AG 05-12801



Analytical Laboratory Report

Revised Report

Report ID: S52392.01(02)

Generated on 05/15/2012

Replaces report S52392.01(01) generated on 05/03/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52392.01-S52392.05

Project: B0064479.2012/ Lansing Plant 2

Collected Date: 05/01/2012

Submitted Date/Time: 05/03/2012 15:15

Sampled by: Meryl Hicks

P.O. #: PO125047

Sample tag for sample .01 updated.

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Revised Report

Sample Summary (5 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52392.01	VAP-A5.2-OE129_12-13	Soil	05/01/2012 16:15
S52392.02	VAP-A5.2-NU137_39-40	Soil	05/01/2012 09:35
S52392.03	VAP-A5.2-NU137_54-55	Soil	05/01/2012 11:00
S52392.04	VAP-A5.2-NU137_44-45	Soil	05/01/2012 09:40
S52392.05	VAP-A5.2-NU137_48-49	Soil	05/01/2012 10:20



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52392.01
Sample Tag: VAP-A5.2-OE129_12-13
Collected Date/Time: 05/01/2012 16:15
Matrix: Soil
COC Reference: 67643

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	87	%	1	Std M 2540 B	05/02/12 17:00	JGH		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	76-13-1	
Acetone	Not detected	ug/kg	640	5035/8260B	05/03/12 15:43	JGH	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	75-15-0	
Methyl Acetate	Not detected	ug/kg	640	5035/8260B	05/03/12 15:43	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	640	5035/8260B	05/03/12 15:43	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	74-83-9	
Chloroethane	180	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	640	5035/8260B	05/03/12 15:43	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	640	5035/8260B	05/03/12 15:43	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	100-41-4	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52392.01 (continued)

Sample Tag: VAP-A5.2-OE129_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	05/03/12 15:43	JGH		
o-Xylene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:43	JGH	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52392.02
Sample Tag: VAP-A5.2-NU137_39-40
Collected Date/Time: 05/01/2012 09:35
Matrix: Soil
COC Reference: 67643

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	90	%	1	Std M 2540 B	05/01/12 16:30	JGH		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	76-13-1	
Acetone	Not detected	ug/kg	630	5035/8260B	05/03/12 15:45	JGH	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	75-15-0	
Methyl Acetate	Not detected	ug/kg	630	5035/8260B	05/03/12 15:45	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	630	5035/8260B	05/03/12 15:45	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	630	5035/8260B	05/03/12 15:45	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	630	5035/8260B	05/03/12 15:45	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	100-41-4	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52392.02 (continued)

Sample Tag: VAP-A5.2-NU137_39-40

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	05/03/12 15:45	JGH		
o-Xylene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:45	JGH	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52392.03
Sample Tag: VAP-A5.2-NU137_54-55
Collected Date/Time: 05/01/2012 11:00
Matrix: Soil
COC Reference: 67643

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	94	%	1	Std M 2540 B	05/01/12 16:30	JGH		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	76-13-1	
Acetone	Not detected	ug/kg	580	5035/8260B	05/03/12 15:44	JGH	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	75-15-0	
Methyl Acetate	Not detected	ug/kg	580	5035/8260B	05/03/12 15:44	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	580	5035/8260B	05/03/12 15:44	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	580	5035/8260B	05/03/12 15:44	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	580	5035/8260B	05/03/12 15:44	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	100-41-4	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52392.03 (continued)

Sample Tag: VAP-A5.2-NU137_54-55

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	05/03/12 15:44	JGH		
o-Xylene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/03/12 15:44	JGH	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52392.04
Sample Tag: VAP-A5.2-NU137_44-45
Collected Date/Time: 05/01/2012 09:40
Matrix: Soil
COC Reference: 67643

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	87	%	1	Std M 2540 B	05/01/12 16:30	JGH		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	76-13-1	
Acetone	Not detected	ug/kg	670	5035/8260B	05/03/12 16:03	JGH	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	75-15-0	
Methyl Acetate	Not detected	ug/kg	670	5035/8260B	05/03/12 16:03	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	670	5035/8260B	05/03/12 16:03	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	670	5035/8260B	05/03/12 16:03	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	670	5035/8260B	05/03/12 16:03	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	100-41-4	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52392.04 (continued)

Sample Tag: VAP-A5.2-NU137_44-45

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	05/03/12 16:03	JGH		
o-Xylene	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	05/03/12 16:03	JGH	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52392.05
Sample Tag: VAP-A5.2-NU137_48-49
Collected Date/Time: 05/01/2012 10:20
Matrix: Soil
COC Reference: 67643

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	76-13-1	T
Acetone	Not detected	ug/kg	500	5035/8260B	05/03/12 16:03	JGH	67-64-1	T
Carbon disulfide	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	75-15-0	T
Methyl Acetate	Not detected	ug/kg	500	5035/8260B	05/03/12 16:03	JGH	79-20-9	T
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	1634-04-4	T
2-Butanone (MEK)	Not detected	ug/kg	500	5035/8260B	05/03/12 16:03	JGH	78-93-3	T
Dichlorodifluoromethane	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	75-71-8	T
Chloromethane	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	74-87-3	T
Vinyl chloride	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	75-01-4	T
Bromomethane	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	74-83-9	T
Chloroethane	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	75-00-3	T
Trichlorofluoromethane	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	75-69-4	T
1,1-Dichloroethene	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	75-35-4	T
Methylene chloride	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	75-09-2	T
trans-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	156-60-5	T
1,1-Dichloroethane	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	75-34-3	T
cis-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	156-59-2	T
Chloroform	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	67-66-3	T
1,1,1-Trichloroethane	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	71-55-6	T
Cyclohexane	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	110-82-7	T
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	500	5035/8260B	05/03/12 16:03	JGH	108-10-1	T
2-Hexanone	Not detected	ug/kg	500	5035/8260B	05/03/12 16:03	JGH	591-78-6	T
Carbon tetrachloride	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	56-23-5	T
Benzene	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	71-43-2	T
1,2-Dichloroethane	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	107-06-2	T
Trichloroethene	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	79-01-6	T
1,2-Dichloropropane	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	78-87-5	T
Bromodichloromethane	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	75-27-4	T
Methyl cyclohexane	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	108-87-2	T
cis-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	10061-01-5	T
Toluene	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	108-88-3	T
trans-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	10061-02-6	T
1,1,2-Trichloroethane	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	79-00-5	T
Tetrachloroethene	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	127-18-4	T
Dibromochloromethane	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	124-48-1	T
1,2-Dibromoethane	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	106-93-4	T
Chlorobenzene	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	108-90-7	T
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	79-34-5	T
Ethylbenzene	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	100-41-4	T
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	05/03/12 16:03	JGH		T
o-Xylene	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	95-47-6	T

T-No correction for total solids



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52392.05 (continued)

Sample Tag: VAP-A5.2-NU137_48-49

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Styrene	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	100-42-5	T
Isopropylbenzene	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	98-82-8	T
Bromoform	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	75-25-2	T
1,3-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	541-73-1	T
1,4-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	106-46-7	T
1,2-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	95-50-1	T
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	96-12-8	T
1,2,4-Trichlorobenzene	Not detected	ug/kg	50	5035/8260B	05/03/12 16:03	JGH	120-82-1	T

T-No correction for total solids



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C.O.C. PAGE # OF

67643

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME			
Randy Christensen			
COMPANY			
ARCADIS			
ADDRESS			
10559 Citation Drive Suite 100			
CITY			STATE
Brighton			MI
			ZIP CODE
			48116
PHONE NO.		FAX NO.	P.O. NO.
810-225-1910		810-229-8837	PO125047
E-MAIL ADDRESS			QUOTE NO.
randy.christensen@arcadis-us.com			Task# 5

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208	E-MAIL ADDRESS dfavero@racertrust.org		
ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)			

PROJECT NO./NAME	SAMPLER(S) - PLEASE PRINT/SIGN NAME
Lansing Plant 2 Project#: B0064479.2012	Meryl Hicks
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☒ OTHER	Expedited
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER	

MATRIX	GW=GROUNDWATER	WW=WASTEWATER	S=SOIL	L=LIQUID	SD=SOLID	# Containers & Preservatives
CODE	SL=SLUDGE	DW=DRINKING WATER	O=OIL	WP=WIPE	A=AIR	

[illegible][illegible]

RELINQUISHED BY:	<i>[Signature]</i>	<i>X</i> Sampler	DATE	TIME
SIGNATURE/ORGANIZATION	<i>[Signature]</i>		5/3/12	1457
RELINQUISHED BY:	<i>[Signature]</i>	<i>MS</i>	DATE	TIME
SIGNATURE/ORGANIZATION	<i>[Signature]</i>		5-3-12	1457
RELINQUISHED BY:			DATE	TIME
SIGNATURE/ORGANIZATION				
RELINQUISHED BY:			DATE	TIME
SIGNATURE/ORGANIZATION				

RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL _____	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1-15-12



Analytical Laboratory Report

Revised Report

Report ID: S52403.01(02)

Generated on 05/21/2012

Replaces report S52403.01(01) generated on 05/15/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52403.01-S52403.11

Project: Lansing Plant #2 Project# B0064479.2012

Collected Date: 05/03/2012

Submitted Date/Time: 05/04/2012 09:45

Sampled by: Meryl H. /Austin W

P.O. #: PO125047

PCB reporting limit lowered

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Revised Report

Sample Summary (11 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52403.01	VAP-A5.2-NV119_14-15	Soil	05/03/2012 08:45
S52403.02	VAP-A5.2-NV119_18-19	Soil	05/03/2012 09:10
S52403.03	VAP-A5.2-DUP#9	Soil	05/03/2012 00:01
S52403.04	VAP-A5.2-NV119_20-22	Wastewater	05/03/2012 09:30
S52403.05	VAP-A5.2-NV119_24-25	Soil	05/03/2012 10:30
S52403.06	VAP-A5.2-NV119_28-29	Soil	05/03/2012 10:50
S52403.07	VAP-A5.2-NV98_1-2	Soil	05/03/2012 13:50
S52403.08	VAP-A5.2-NV98_1-2 MS	Soil	05/03/2012 13:50
S52403.09	VAP-A5.2-NV98_1-2 MSD	Soil	05/03/2012 13:50
S52403.10	VAP-A5.2-NV98_11-12	Soil	05/03/2012 14:15
S52403.11	VAP-A5.2-NV98_13-15	Wastewater	05/03/2012 14:40



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.01
Sample Tag: VAP-A5.2-NV119_14-15
Collected Date/Time: 05/03/2012 08:45
Matrix: Soil
COC Reference: 67645

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:02	EMR		
Extraction, PCB	Completed			3550B	05/09/12 9:33	CCM		
Mercury Digestion	Completed			7471A	05/09/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/04/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/11/12 15:30	PER	7440-36-0	
Arsenic	1.94	mg/kg	0.10	6020	05/11/12 15:30	PER	7440-38-2	
Barium	32.3	mg/kg	1.0	6020	05/11/12 15:30	PER	7440-39-3	
Beryllium	0.20	mg/kg	0.2	6020	05/11/12 15:30	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/11/12 15:30	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/11/12 15:30	PER	7440-43-9	
Chromium	7.70	mg/kg	0.20	6020	05/11/12 15:30	PER	7440-47-3	
Cobalt	4.37	mg/kg	0.2	6020	05/11/12 15:30	PER	7440-48-4	
Copper	9.90	mg/kg	0.20	6020	05/11/12 15:30	PER	7440-50-8	
Lead	3.62	mg/kg	0.20	6020	05/11/12 15:30	PER	7439-92-1	
Manganese	231	mg/kg	0.20	6020	05/11/12 15:30	PER	7439-96-5	
Mercury	0.0138	mg/kg	0.0056	7471A	05/09/12 15:10	JRT	7439-97-6	
Nickel	12.6	mg/kg	0.20	6020	05/11/12 15:30	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/11/12 15:30	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/11/12 15:30	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/11/12 15:30	PER	7440-28-0	
Vanadium	9.40	mg/kg	0.20	6020	05/11/12 15:30	PER	7440-62-2	
Zinc	17.4	mg/kg	1.0	6020	05/11/12 15:30	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/09/12 14:50	JANB	12674-11-2	
PCB-1242	5	ug/kg	3	8082A	05/09/12 14:50	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/09/12 14:50	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/09/12 14:50	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/09/12 14:50	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/09/12 14:50	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/09/12 14:50	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.01 (continued)

Sample Tag: VAP-A5.2-NV119_14-15

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 20:50	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/07/12 20:50	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 20:50	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	110	ug/kg	70	8270C	05/07/12 20:50	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/07/12 20:50	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.01 (continued)

Sample Tag: VAP-A5.2-NV119_14-15

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/07/12 20:50	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/07/12 20:50	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.02
Sample Tag: VAP-A5.2-NV119_18-19
Collected Date/Time: 05/03/2012 09:10
Matrix: Soil
COC Reference: 67645

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:02	EMR		
Extraction, PCB	Completed			3550B	05/09/12 9:33	CCM		
Mercury Digestion	Completed			7471A	05/09/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/04/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/11/12 15:33	PER	7440-36-0	
Arsenic	0.31	mg/kg	0.10	6020	05/11/12 15:33	PER	7440-38-2	
Barium	8.40	mg/kg	1.0	6020	05/11/12 15:33	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.2	6020	05/11/12 15:33	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/11/12 15:33	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/11/12 15:33	PER	7440-43-9	
Chromium	1.26	mg/kg	0.20	6020	05/11/12 15:33	PER	7440-47-3	
Cobalt	1.22	mg/kg	0.2	6020	05/11/12 15:33	PER	7440-48-4	
Copper	4.42	mg/kg	0.20	6020	05/11/12 15:33	PER	7440-50-8	
Lead	1.85	mg/kg	0.20	6020	05/11/12 15:33	PER	7439-92-1	
Manganese	98.1	mg/kg	0.20	6020	05/11/12 15:33	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0057	7471A	05/09/12 15:12	JRT	7439-97-6	
Nickel	2.70	mg/kg	0.20	6020	05/11/12 15:33	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/11/12 15:33	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/11/12 15:33	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/11/12 15:33	PER	7440-28-0	
Vanadium	2.45	mg/kg	0.20	6020	05/11/12 15:33	PER	7440-62-2	
Zinc	5.48	mg/kg	1.0	6020	05/11/12 15:33	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	250	8082A	05/09/12 15:01	JANB	12674-11-2	Y
PCB-1242	4,500	ug/kg	250	8082A	05/09/12 15:01	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	250	8082A	05/09/12 15:01	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	250	8082A	05/09/12 15:01	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	250	8082A	05/09/12 15:01	JANB	12672-29-6	Y
PCB-1254	Not detected	ug/kg	250	8082A	05/09/12 15:01	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	250	8082A	05/09/12 15:01	JANB	11096-82-5	Y

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	208-96-8	

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.02 (continued)

Sample Tag: VAP-A5.2-NV119_18-19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	98-86-2	
Anthracene	800	ug/kg	300	8270C	05/09/12 20:28	PL	120-12-7	
Atrazine	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	600	8270C	05/09/12 20:28	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	50-32-8	I
Benzo(b)fluoranthene	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	205-99-2	I
Benzo(ghi)perylene	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	191-24-2	I
Benzo(k)fluoranthene	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	207-08-9	I
Butyl benzyl phthalate	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	105-60-2	
Carbazole	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	108-60-1	
Chrysene	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	600	8270C	05/09/12 20:28	PL	53-70-3	XI
Dibenzofuran	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	600	8270C	05/09/12 20:28	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	600	8270C	05/09/12 20:28	PL	117-81-7	X
Fluoranthene	400	ug/kg	300	8270C	05/09/12 20:28	PL	206-44-0	
Fluorene	4,900	ug/kg	300	8270C	05/09/12 20:28	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	193-39-5	I
Isophorone	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	600	8270C	05/09/12 20:28	PL	3/4-Cresol	

X-Elevated reporting limit due to matrix interference

I-Matrix interference with internal standard



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.02 (continued)

Sample Tag: VAP-A5.2-NV119_18-19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	86-30-6	
Naphthalene	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	600	8270C	05/09/12 20:28	PL	117-84-0	IX
Pentachlorophenol	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	87-86-5	
Phenanthrene	4,600	ug/kg	300	8270C	05/09/12 20:28	PL	85-01-8	
Phenol	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	108-95-2	
Pyrene	600	ug/kg	300	8270C	05/09/12 20:28	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	300	8270C	05/09/12 20:28	PL	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	98-86-2	X
Anthracene	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	120-12-7	X
Atrazine	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	05/11/12 20:27	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	105-60-2	X
Carbazole	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	108-60-1	X
Chrysene	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	121-14-2	X

I-Matrix interference with internal standard X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.02 (continued)

Sample Tag: VAP-A5.2-NV119_18-19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
2,6-Dinitrotoluene	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	05/11/12 20:27	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	05/11/12 20:27	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	05/11/12 20:27	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	206-44-0	X
Fluorene	5,300	ug/kg	800	8270C	05/11/12 20:27	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	193-39-5	X
Isophorone	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	05/11/12 20:27	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	05/11/12 20:27	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	87-86-5	X
Phenanthrene	4,700	ug/kg	800	8270C	05/11/12 20:27	PL	85-01-8	X
Phenol	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	108-95-2	X
Pyrene	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	800	8270C	05/11/12 20:27	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.03
Sample Tag: VAP-A5.2-DUP#9
Collected Date/Time: 05/03/2012 00:01
Matrix: Soil
COC Reference: 67645

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:02	EMR		
Extraction, PCB	Completed			3550B	05/09/12 9:33	CCM		
Mercury Digestion	Completed			7471A	05/09/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/04/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/11/12 15:36	PER	7440-36-0	
Arsenic	0.34	mg/kg	0.10	6020	05/11/12 15:36	PER	7440-38-2	
Barium	16.5	mg/kg	1.0	6020	05/11/12 15:36	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/11/12 15:36	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	05/11/12 15:36	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/11/12 15:36	PER	7440-43-9	
Chromium	2.04	mg/kg	0.21	6020	05/11/12 15:36	PER	7440-47-3	
Cobalt	2.50	mg/kg	0.21	6020	05/11/12 15:36	PER	7440-48-4	
Copper	5.37	mg/kg	0.21	6020	05/11/12 15:36	PER	7440-50-8	
Lead	3.58	mg/kg	0.21	6020	05/11/12 15:36	PER	7439-92-1	
Manganese	155	mg/kg	0.21	6020	05/11/12 15:36	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0057	7471A	05/09/12 15:15	JRT	7439-97-6	
Nickel	4.19	mg/kg	0.21	6020	05/11/12 15:36	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/11/12 15:36	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/11/12 15:36	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/11/12 15:36	PER	7440-28-0	
Vanadium	3.90	mg/kg	0.21	6020	05/11/12 15:36	PER	7440-62-2	
Zinc	8.97	mg/kg	1.0	6020	05/11/12 15:36	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	250	8082A	05/09/12 15:20	JANB	12674-11-2	Y
PCB-1242	5,700	ug/kg	250	8082A	05/09/12 15:20	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	250	8082A	05/09/12 15:20	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	250	8082A	05/09/12 15:20	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	250	8082A	05/09/12 15:20	JANB	12672-29-6	Y
PCB-1254	Not detected	ug/kg	250	8082A	05/09/12 15:20	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	250	8082A	05/09/12 15:20	JANB	11096-82-5	Y

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	83-32-9	X
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Y-Elevated reporting limit due to high target concentration

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.03 (continued)

Sample Tag: VAP-A5.2-DUP#9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acenaphthylene	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	98-86-2	X
Anthracene	800	ug/kg	400	8270C	05/09/12 20:58	PL	120-12-7	X
Atrazine	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	800	8270C	05/09/12 20:58	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	50-32-8	XI
Benzo(b)fluoranthene	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	205-99-2	XI
Benzo(ghi)perylene	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	191-24-2	XI
Benzo(k)fluoranthene	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	207-08-9	XI
Butyl benzyl phthalate	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	105-60-2	X
Carbazole	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	108-60-1	X
Chrysene	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	800	8270C	05/09/12 20:58	PL	53-70-3	XI
Dibenzofuran	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	800	8270C	05/09/12 20:58	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	800	8270C	05/09/12 20:58	PL	117-81-7	X
Fluoranthene	400	ug/kg	400	8270C	05/09/12 20:58	PL	206-44-0	X
Fluorene	5,200	ug/kg	400	8270C	05/09/12 20:58	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	193-39-5	XI
Isophorone	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	95-48-7	X

X-Elevated reporting limit due to matrix interference

I-Matrix interference with internal standard



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.03 (continued)

Sample Tag: VAP-A5.2-DUP#9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-, 4-Methylphenol	Not detected	ug/kg	800	8270C	05/09/12 20:58	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	800	8270C	05/09/12 20:58	PL	117-84-0	XI
Pentachlorophenol	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	87-86-5	X
Phenanthrene	5,000	ug/kg	400	8270C	05/09/12 20:58	PL	85-01-8	X
Phenol	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	108-95-2	X
Pyrene	500	ug/kg	400	8270C	05/09/12 20:58	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	400	8270C	05/09/12 20:58	PL	88-06-2	X
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	98-86-2	X
Anthracene	1,000	ug/kg	900	8270C	05/11/12 21:01	PL	120-12-7	X
Atrazine	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	05/11/12 21:01	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	105-60-2	X
Carbazole	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	108-60-1	X
Chrysene	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	105-67-9	X

X-Elevated reporting limit due to matrix interference

I-Matrix interference with internal standard



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.03 (continued)

Sample Tag: VAP-A5.2-DUP#9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
2,4-Dinitrophenol	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	05/11/12 21:01	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	05/11/12 21:01	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	05/11/12 21:01	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	206-44-0	X
Fluorene	6,800	ug/kg	900	8270C	05/11/12 21:01	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	193-39-5	X
Isophorone	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	05/11/12 21:01	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	05/11/12 21:01	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	87-86-5	X
Phenanthrene	6,000	ug/kg	900	8270C	05/11/12 21:01	PL	85-01-8	X
Phenol	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	108-95-2	X
Pyrene	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	900	8270C	05/11/12 21:01	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.04
Sample Tag: VAP-A5.2-NV119_20-22
Collected Date/Time: 05/03/2012 09:30
Matrix: Wastewater
COC Reference: 67645

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.3	IR
3	40ml Glass	HCL	Yes	4.3	IR
1	125ml Plastic	HNO3	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/07/12 23:32	EMR		
Extraction, PCB	Completed			3510C	05/08/12 14:22	CCM		
Mercury Digestion	Completed			7471A	05/07/12 10:05	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:42	SLS	7440-36-0	
Arsenic, Dissolved	0.012	mg/L	0.002	6020	05/10/12 14:42	SLS	7440-38-2	
Barium, Dissolved	0.154	mg/L	0.010	6020	05/10/12 14:42	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 14:42	SLS	7440-41-7	
Boron, Dissolved	0.42	mg/L	0.04	6020	05/10/12 14:42	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 14:42	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:42	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:42	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:42	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:42	SLS	7439-92-1	
Manganese, Dissolved	0.255	mg/L	0.010	6020	05/10/12 14:42	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/08/12 11:38	JRT	7439-97-6	
Nickel, Dissolved	0.014	mg/L	0.010	6020	05/10/12 14:42	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:42	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 14:42	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:42	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:42	SLS	7440-62-2	
Zinc, Dissolved	0.011	mg/L	0.010	6020	05/10/12 14:42	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	5	8082A	05/09/12 12:31	JANB	12674-11-2	Y
PCB-1242	30	ug/L	5	8082A	05/09/12 12:31	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/L	5	8082A	05/09/12 12:31	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/L	5	8082A	05/09/12 12:31	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/L	5	8082A	05/09/12 12:31	JANB	12672-29-6	Y
PCB-1254	Not detected	ug/L	5	8082A	05/09/12 12:31	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/L	5	8082A	05/09/12 12:31	JANB	11096-82-5	Y

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/08/12 16:30	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/08/12 16:30	PL	118-74-1	

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.04 (continued)

Sample Tag: VAP-A5.2-NV119_20-22

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	83-32-9	X
Acenaphthylene	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	208-96-8	X
Acetophenone	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	98-86-2	
Anthracene	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	120-12-7	X
Atrazine	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	9	8270C	05/09/12 14:37	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	7005-72-3	
Caprolactam	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	105-60-2	
Carbazole	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	108-60-1	
Chrysene	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	120-83-2	
2,4-Dimethylphenol	5	ug/L	4	8270C	05/09/12 14:37	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	53-70-3	X
Dibenzofuran	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	9	8270C	05/09/12 14:37	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/L	9	8270C	05/09/12 14:37	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	9	8270C	05/09/12 14:37	PL	117-81-7	X
Fluoranthene	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	206-44-0	X
Fluorene	17	ug/L	4	8270C	05/09/12 14:37	PL	86-73-7	X
Hexachlorobutadiene	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	193-39-5	X
Isophorone	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	91-57-6	X
2-Methylphenol	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	88-74-4	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.04 (continued)

Sample Tag: VAP-A5.2-NV119_20-22

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2-Nitrophenol	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	86-30-6	
Naphthalene	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	91-20-3	X
Nitrobenzene	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	87-86-5	
Phenanthrene	14	ug/L	4	8270C	05/09/12 14:37	PL	85-01-8	X
Phenol	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	108-95-2	
Pyrene	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	4	8270C	05/09/12 14:37	PL	88-06-2	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.05
Sample Tag: VAP-A5.2-NV119_24-25
Collected Date/Time: 05/03/2012 10:30
Matrix: Soil
COC Reference: 67645

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:02	EMR		
Extraction, PCB	Completed			3550B	05/09/12 9:33	CCM		
Mercury Digestion	Completed			7471A	05/09/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/04/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/11/12 15:38	PER	7440-36-0	
Arsenic	2.29	mg/kg	0.10	6020	05/11/12 15:38	PER	7440-38-2	
Barium	19.6	mg/kg	1.0	6020	05/11/12 15:38	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/11/12 15:38	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/11/12 15:38	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/11/12 15:38	PER	7440-43-9	
Chromium	3.30	mg/kg	0.21	6020	05/11/12 15:38	PER	7440-47-3	
Cobalt	2.79	mg/kg	0.21	6020	05/11/12 15:38	PER	7440-48-4	
Copper	8.99	mg/kg	0.21	6020	05/11/12 15:38	PER	7440-50-8	
Lead	4.28	mg/kg	0.21	6020	05/11/12 15:38	PER	7439-92-1	
Manganese	263	mg/kg	0.21	6020	05/11/12 15:38	PER	7439-96-5	
Mercury	0.0099	mg/kg	0.0055	7471A	05/09/12 15:17	JRT	7439-97-6	
Nickel	7.99	mg/kg	0.21	6020	05/11/12 15:38	PER	7440-02-0	
Selenium	0.25	mg/kg	0.21	6020	05/11/12 15:38	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/11/12 15:38	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/11/12 15:38	PER	7440-28-0	
Vanadium	7.33	mg/kg	0.21	6020	05/11/12 15:38	PER	7440-62-2	
Zinc	12.4	mg/kg	1.0	6020	05/11/12 15:38	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/09/12 16:35	JANB	12674-11-2	
PCB-1242	20	ug/kg	3	8082A	05/09/12 16:35	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/09/12 16:35	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/09/12 16:35	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/09/12 16:35	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/09/12 16:35	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/09/12 16:35	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.05 (continued)

Sample Tag: VAP-A5.2-NV119_24-25

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/09/12 18:02	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/09/12 18:02	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/09/12 18:02	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	230	ug/kg	70	8270C	05/09/12 18:02	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/09/12 18:02	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.05 (continued)

Sample Tag: VAP-A5.2-NV119_24-25

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/09/12 18:02	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	87-86-5	
Phenanthrene	40	ug/kg	40	8270C	05/09/12 18:02	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/09/12 18:02	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.06
Sample Tag: VAP-A5.2-NV119_28-29
Collected Date/Time: 05/03/2012 10:50
Matrix: Soil
COC Reference: 67645

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:02	EMR		
Extraction, PCB	Completed			3550B	05/09/12 9:33	CCM		
Mercury Digestion	Completed			7471A	05/09/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/04/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/11/12 15:40	PER	7440-36-0	
Arsenic	2.95	mg/kg	0.10	6020	05/11/12 15:40	PER	7440-38-2	
Barium	19.2	mg/kg	1.0	6020	05/11/12 15:40	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/11/12 15:40	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/11/12 15:40	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/11/12 15:40	PER	7440-43-9	
Chromium	3.10	mg/kg	0.21	6020	05/11/12 15:40	PER	7440-47-3	
Cobalt	4.23	mg/kg	0.21	6020	05/11/12 15:40	PER	7440-48-4	
Copper	8.38	mg/kg	0.21	6020	05/11/12 15:40	PER	7440-50-8	
Lead	3.65	mg/kg	0.21	6020	05/11/12 15:40	PER	7439-92-1	
Manganese	218	mg/kg	0.21	6020	05/11/12 15:40	PER	7439-96-5	
Mercury	0.0120	mg/kg	0.0056	7471A	05/09/12 15:19	JRT	7439-97-6	
Nickel	7.82	mg/kg	0.21	6020	05/11/12 15:40	PER	7440-02-0	
Selenium	0.22	mg/kg	0.21	6020	05/11/12 15:40	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/11/12 15:40	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/11/12 15:40	PER	7440-28-0	
Vanadium	4.95	mg/kg	0.21	6020	05/11/12 15:40	PER	7440-62-2	
Zinc	19.8	mg/kg	1.0	6020	05/11/12 15:40	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/09/12 16:45	JANB	12674-11-2	
PCB-1242	6	ug/kg	3	8082A	05/09/12 16:45	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/09/12 16:45	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/09/12 16:45	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/09/12 16:45	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/09/12 16:45	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/09/12 16:45	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.06 (continued)

Sample Tag: VAP-A5.2-NV119_28-29

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/09/12 18:31	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/09/12 18:31	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/09/12 18:31	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/09/12 18:31	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/09/12 18:31	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.06 (continued)

Sample Tag: VAP-A5.2-NV119_28-29

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/09/12 18:31	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/09/12 18:31	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.07
Sample Tag: VAP-A5.2-NV98_1-2
Collected Date/Time: 05/03/2012 13:50
Matrix: Soil
COC Reference: 67645

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:03	EMR		
Extraction, PCB	Completed			3550B	05/09/12 9:33	CCM		
Mercury Digestion	Completed			7471A	05/09/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:00	PER		

Inorganics

Total Solids	93	%	1	Std M 2540 B	05/04/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/11/12 15:45	PER	7440-36-0	
Arsenic	0.78	mg/kg	0.10	6020	05/11/12 15:45	PER	7440-38-2	
Barium	9.48	mg/kg	1.0	6020	05/11/12 15:45	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.2	6020	05/11/12 15:45	PER	7440-41-7	
Boron	Not detected	mg/kg	4	6020	05/11/12 15:45	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/11/12 15:45	PER	7440-43-9	
Chromium	1.36	mg/kg	0.20	6020	05/11/12 15:45	PER	7440-47-3	
Cobalt	3.31	mg/kg	0.2	6020	05/11/12 15:45	PER	7440-48-4	
Copper	1.54	mg/kg	0.20	6020	05/11/12 15:45	PER	7440-50-8	
Lead	2.87	mg/kg	0.20	6020	05/11/12 15:45	PER	7439-92-1	
Manganese	149	mg/kg	0.20	6020	05/11/12 15:45	PER	7439-96-5	
Mercury	0.0063	mg/kg	0.0054	7471A	05/09/12 15:24	JRT	7439-97-6	
Nickel	3.26	mg/kg	0.20	6020	05/11/12 15:45	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/11/12 15:45	PER	7782-49-2	
Silver	0.22	mg/kg	0.10	6020	05/11/12 15:45	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/11/12 15:45	PER	7440-28-0	
Vanadium	2.53	mg/kg	0.20	6020	05/11/12 15:45	PER	7440-62-2	
Zinc	4.57	mg/kg	1.0	6020	05/11/12 15:45	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/09/12 14:05	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/09/12 14:05	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/09/12 14:05	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/09/12 14:05	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/09/12 14:05	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/09/12 14:05	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/09/12 14:05	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.07 (continued)

Sample Tag: VAP-A5.2-NV98_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 13:19	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/08/12 13:19	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 13:19	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/08/12 13:19	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/08/12 13:19	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.07 (continued)

Sample Tag: VAP-A5.2-NV98_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 13:19	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 13:19	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.08
Sample Tag: VAP-A5.2-NV98_1-2 MS
Collected Date/Time: 05/03/2012 13:50
Matrix: Soil
COC Reference: 67645

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:03	EMR		
Extraction, PCB	Completed			3550B	05/09/12 9:33	CCM		
Mercury Digestion	Completed			7471A	05/09/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/04/12 12:00	RGS		
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Metals

Antimony	20.4	mg/kg	0.20	6020	05/11/12 15:59	PER	7440-36-0	
Arsenic	20.5	mg/kg	0.10	6020	05/11/12 15:59	PER	7440-38-2	
Barium	29.9	mg/kg	1.0	6020	05/11/12 15:59	PER	7440-39-3	
Beryllium	19.5	mg/kg	0.20	6020	05/11/12 15:59	PER	7440-41-7	
Boron	19.2	mg/kg	4	6020	05/11/12 15:59	PER	7440-42-8	
Cadmium	20.2	mg/kg	0.10	6020	05/11/12 15:59	PER	7440-43-9	
Chromium	22.2	mg/kg	0.20	6020	05/11/12 15:59	PER	7440-47-3	
Cobalt	22.4	mg/kg	0.20	6020	05/11/12 15:59	PER	7440-48-4	
Copper	20.4	mg/kg	0.20	6020	05/11/12 15:59	PER	7440-50-8	
Lead	20.7	mg/kg	0.20	6020	05/11/12 15:59	PER	7439-92-1	
Manganese	169	mg/kg	0.20	6020	05/11/12 15:59	PER	7439-96-5	
Mercury	0.1355	mg/kg	0.0055	7471A	05/09/12 15:26	JRT	7439-97-6	
Nickel	23.3	mg/kg	0.20	6020	05/11/12 15:59	PER	7440-02-0	
Selenium	17.7	mg/kg	0.20	6020	05/11/12 15:59	PER	7782-49-2	
Silver	19.4	mg/kg	0.10	6020	05/11/12 15:59	PER	7440-22-4	
Thallium	18.9	mg/kg	0.20	6020	05/11/12 15:59	PER	7440-28-0	
Vanadium	23.5	mg/kg	0.20	6020	05/11/12 15:59	PER	7440-62-2	
Zinc	23.8	mg/kg	1.0	6020	05/11/12 15:59	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	20	ug/kg	3	8082A	05/09/12 14:16	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/09/12 14:16	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/09/12 14:16	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/09/12 14:16	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/09/12 14:16	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/09/12 14:16	JANB	11097-69-1	
PCB-1260	20	ug/kg	3	8082A	05/09/12 14:16	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	1,520	ug/kg	40	8270C	05/08/12 13:49	PL	83-32-9	1
Acenaphthylene	1,570	ug/kg	40	8270C	05/08/12 13:49	PL	208-96-8	1

1-Sample spiked at 1.83 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.08 (continued)

Sample Tag: VAP-A5.2-NV98_1-2 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	1,600	ug/kg	40	8270C	05/08/12 13:49	PL	98-86-2	1
Anthracene	1,690	ug/kg	40	8270C	05/08/12 13:49	PL	120-12-7	1
Atrazine	1,880	ug/kg	40	8270C	05/08/12 13:49	PL	1912-24-9	1
1,1'-Biphenyl	1,520	ug/kg	40	8270C	05/08/12 13:49	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,650	ug/kg	40	8270C	05/08/12 13:49	PL	101-55-3	1
di-n-Butyl phthalate	1,840	ug/kg	70	8270C	05/08/12 13:49	PL	84-74-2	1
Benzaldehyde	1,320	ug/kg	40	8270C	05/08/12 13:49	PL	100-52-7	1
Benzo(a)anthracene	1,670	ug/kg	40	8270C	05/08/12 13:49	PL	56-55-3	1
Benzo(a)pyrene	1,560	ug/kg	40	8270C	05/08/12 13:49	PL	50-32-8	1
Benzo(b)fluoranthene	1,690	ug/kg	40	8270C	05/08/12 13:49	PL	205-99-2	1
Benzo(ghi)perylene	1,750	ug/kg	40	8270C	05/08/12 13:49	PL	191-24-2	1
Benzo(k)fluoranthene	1,670	ug/kg	40	8270C	05/08/12 13:49	PL	207-08-9	1
Butyl benzyl phthalate	1,820	ug/kg	40	8270C	05/08/12 13:49	PL	85-68-7	1
2-Chloronaphthalene	1,530	ug/kg	40	8270C	05/08/12 13:49	PL	91-58-7	1
2-Chlorophenol	1,450	ug/kg	40	8270C	05/08/12 13:49	PL	95-57-8	1
4-Chloro-3-methylphenol	1,720	ug/kg	40	8270C	05/08/12 13:49	PL	59-50-7	1
4-Chloroaniline	1,570	ug/kg	40	8270C	05/08/12 13:49	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,630	ug/kg	40	8270C	05/08/12 13:49	PL	7005-72-3	1
Caprolactam	1,670	ug/kg	40	8270C	05/08/12 13:49	PL	105-60-2	1
Carbazole	1,710	ug/kg	40	8270C	05/08/12 13:49	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,510	ug/kg	40	8270C	05/08/12 13:49	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,400	ug/kg	40	8270C	05/08/12 13:49	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,360	ug/kg	40	8270C	05/08/12 13:49	PL	108-60-1	1
Chrysene	1,730	ug/kg	40	8270C	05/08/12 13:49	PL	218-01-9	1
2,4-Dichlorophenol	1,560	ug/kg	40	8270C	05/08/12 13:49	PL	120-83-2	1
2,4-Dimethylphenol	1,540	ug/kg	40	8270C	05/08/12 13:49	PL	105-67-9	1
2,4-Dinitrophenol	820	ug/kg	40	8270C	05/08/12 13:49	PL	51-28-5	1
2,4-Dinitrotoluene	1,770	ug/kg	40	8270C	05/08/12 13:49	PL	121-14-2	1
2,6-Dinitrotoluene	1,720	ug/kg	40	8270C	05/08/12 13:49	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,900	ug/kg	40	8270C	05/08/12 13:49	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,440	ug/kg	40	8270C	05/08/12 13:49	PL	534-52-1	1
Dibenzo(ah)anthracene	1,740	ug/kg	70	8270C	05/08/12 13:49	PL	53-70-3	1
Dibenzofuran	1,610	ug/kg	40	8270C	05/08/12 13:49	PL	132-64-9	1
Diethyl phthalate	1,760	ug/kg	70	8270C	05/08/12 13:49	PL	84-66-2	1
Dimethyl phthalate	1,680	ug/kg	40	8270C	05/08/12 13:49	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	1,910	ug/kg	70	8270C	05/08/12 13:49	PL	117-81-7	1
Fluoranthene	1,690	ug/kg	40	8270C	05/08/12 13:49	PL	206-44-0	1
Fluorene	1,640	ug/kg	40	8270C	05/08/12 13:49	PL	86-73-7	1
Hexachlorobenzene	1,700	ug/kg	40	8270C	05/08/12 13:49	PL	118-74-1	1
Hexachlorobutadiene	1,430	ug/kg	40	8270C	05/08/12 13:49	PL	87-68-3	1
Hexachlorocyclopentadiene	1,130	ug/kg	40	8270C	05/08/12 13:49	PL	77-47-4	1
Hexachloroethane	1,370	ug/kg	40	8270C	05/08/12 13:49	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,750	ug/kg	40	8270C	05/08/12 13:49	PL	193-39-5	1
Isophorone	1,550	ug/kg	40	8270C	05/08/12 13:49	PL	78-59-1	1
2-Methylnaphthalene	1,450	ug/kg	40	8270C	05/08/12 13:49	PL	91-57-6	1
2-Methylphenol	1,520	ug/kg	40	8270C	05/08/12 13:49	PL	95-48-7	1
3-, 4-Methylphenol	3,340	ug/kg	70	8270C	05/08/12 13:49	PL	3/4-Cresol	1
2-Nitroaniline	1,720	ug/kg	40	8270C	05/08/12 13:49	PL	88-74-4	1

1-Sample spiked at 1.83 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.08 (continued)

Sample Tag: VAP-A5.2-NV98_1-2 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	1,460	ug/kg	40	8270C	05/08/12 13:49	PL	88-75-5	1
3-Nitroaniline	1,680	ug/kg	40	8270C	05/08/12 13:49	PL	99-09-2	1
4-Nitroaniline	1,960	ug/kg	40	8270C	05/08/12 13:49	PL	100-01-6	1
4-Nitrophenol	1,680	ug/kg	40	8270C	05/08/12 13:49	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,610	ug/kg	40	8270C	05/08/12 13:49	PL	621-64-7	1
N-Nitrosodiphenylamine	1,450	ug/kg	40	8270C	05/08/12 13:49	PL	86-30-6	1
Naphthalene	1,440	ug/kg	40	8270C	05/08/12 13:49	PL	91-20-3	1
Nitrobenzene	1,440	ug/kg	40	8270C	05/08/12 13:49	PL	98-95-3	1
di-n-Octyl phthalate	1,750	ug/kg	70	8270C	05/08/12 13:49	PL	117-84-0	1
Pentachlorophenol	1,430	ug/kg	40	8270C	05/08/12 13:49	PL	87-86-5	1
Phenanthrene	1,650	ug/kg	40	8270C	05/08/12 13:49	PL	85-01-8	1
Phenol	1,650	ug/kg	40	8270C	05/08/12 13:49	PL	108-95-2	1
Pyrene	1,610	ug/kg	40	8270C	05/08/12 13:49	PL	129-00-0	1
2,4,5-Trichlorophenol	1,740	ug/kg	40	8270C	05/08/12 13:49	PL	95-95-4	1
2,4,6-Trichlorophenol	1,670	ug/kg	40	8270C	05/08/12 13:49	PL	88-06-2	1

1-Sample spiked at 1.83 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.09
Sample Tag: VAP-A5.2-NV98_1-2 MSD
Collected Date/Time: 05/03/2012 13:50
Matrix: Soil
COC Reference: 67645

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:03	EMR		
Extraction, PCB	Completed			3550B	05/09/12 9:33	CCM		
Mercury Digestion	Completed			7471A	05/09/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:00	PER		

Inorganics

Total Solids	93	%	1	Std M 2540 B	05/04/12 12:00	RGS		
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Metals

Antimony	20.4	mg/kg	0.20	6020	05/11/12 16:01	PER	7440-36-0	
Arsenic	20.6	mg/kg	0.10	6020	05/11/12 16:01	PER	7440-38-2	
Barium	29.5	mg/kg	1.0	6020	05/11/12 16:01	PER	7440-39-3	
Beryllium	19.5	mg/kg	0.20	6020	05/11/12 16:01	PER	7440-41-7	
Boron	18.6	mg/kg	4	6020	05/11/12 16:01	PER	7440-42-8	
Cadmium	20.1	mg/kg	0.10	6020	05/11/12 16:01	PER	7440-43-9	
Chromium	22.4	mg/kg	0.20	6020	05/11/12 16:01	PER	7440-47-3	
Cobalt	22.6	mg/kg	0.20	6020	05/11/12 16:01	PER	7440-48-4	
Copper	20.6	mg/kg	0.20	6020	05/11/12 16:01	PER	7440-50-8	
Lead	20.9	mg/kg	0.20	6020	05/11/12 16:01	PER	7439-92-1	
Manganese	170	mg/kg	0.20	6020	05/11/12 16:01	PER	7439-96-5	
Mercury	0.1315	mg/kg	0.0054	7471A	05/09/12 15:28	JRT	7439-97-6	
Nickel	23.6	mg/kg	0.20	6020	05/11/12 16:01	PER	7440-02-0	
Selenium	18.1	mg/kg	0.20	6020	05/11/12 16:01	PER	7782-49-2	
Silver	19.4	mg/kg	0.10	6020	05/11/12 16:01	PER	7440-22-4	
Thallium	18.9	mg/kg	0.20	6020	05/11/12 16:01	PER	7440-28-0	
Vanadium	23.7	mg/kg	0.20	6020	05/11/12 16:01	PER	7440-62-2	
Zinc	24.3	mg/kg	1.0	6020	05/11/12 16:01	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	30	ug/kg	3	8082A	05/09/12 14:26	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/09/12 14:26	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/09/12 14:26	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/09/12 14:26	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/09/12 14:26	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/09/12 14:26	JANB	11097-69-1	
PCB-1260	30	ug/kg	3	8082A	05/09/12 14:26	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	1,540	ug/kg	40	8270C	05/08/12 14:18	PL	83-32-9	1
Acenaphthylene	1,550	ug/kg	40	8270C	05/08/12 14:18	PL	208-96-8	1

1-Sample spiked at 1.79 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.09 (continued)

Sample Tag: VAP-A5.2-NV98_1-2 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	1,610	ug/kg	40	8270C	05/08/12 14:18	PL	98-86-2	1
Anthracene	1,630	ug/kg	40	8270C	05/08/12 14:18	PL	120-12-7	1
Atrazine	1,850	ug/kg	40	8270C	05/08/12 14:18	PL	1912-24-9	1
1,1'-Biphenyl	1,510	ug/kg	40	8270C	05/08/12 14:18	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,620	ug/kg	40	8270C	05/08/12 14:18	PL	101-55-3	1
di-n-Butyl phthalate	1,760	ug/kg	70	8270C	05/08/12 14:18	PL	84-74-2	1
Benzaldehyde	1,320	ug/kg	40	8270C	05/08/12 14:18	PL	100-52-7	1
Benzo(a)anthracene	1,590	ug/kg	40	8270C	05/08/12 14:18	PL	56-55-3	1
Benzo(a)pyrene	1,500	ug/kg	40	8270C	05/08/12 14:18	PL	50-32-8	1
Benzo(b)fluoranthene	1,640	ug/kg	40	8270C	05/08/12 14:18	PL	205-99-2	1
Benzo(ghi)perylene	1,630	ug/kg	40	8270C	05/08/12 14:18	PL	191-24-2	1
Benzo(k)fluoranthene	1,550	ug/kg	40	8270C	05/08/12 14:18	PL	207-08-9	1
Butyl benzyl phthalate	1,780	ug/kg	40	8270C	05/08/12 14:18	PL	85-68-7	1
2-Chloronaphthalene	1,540	ug/kg	40	8270C	05/08/12 14:18	PL	91-58-7	1
2-Chlorophenol	1,480	ug/kg	40	8270C	05/08/12 14:18	PL	95-57-8	1
4-Chloro-3-methylphenol	1,680	ug/kg	40	8270C	05/08/12 14:18	PL	59-50-7	1
4-Chloroaniline	1,580	ug/kg	40	8270C	05/08/12 14:18	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,610	ug/kg	40	8270C	05/08/12 14:18	PL	7005-72-3	1
Caprolactam	1,630	ug/kg	40	8270C	05/08/12 14:18	PL	105-60-2	1
Carbazole	1,640	ug/kg	40	8270C	05/08/12 14:18	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,520	ug/kg	40	8270C	05/08/12 14:18	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,410	ug/kg	40	8270C	05/08/12 14:18	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,370	ug/kg	40	8270C	05/08/12 14:18	PL	108-60-1	1
Chrysene	1,660	ug/kg	40	8270C	05/08/12 14:18	PL	218-01-9	1
2,4-Dichlorophenol	1,580	ug/kg	40	8270C	05/08/12 14:18	PL	120-83-2	1
2,4-Dimethylphenol	1,570	ug/kg	40	8270C	05/08/12 14:18	PL	105-67-9	1
2,4-Dinitrophenol	710	ug/kg	40	8270C	05/08/12 14:18	PL	51-28-5	1
2,4-Dinitrotoluene	1,680	ug/kg	40	8270C	05/08/12 14:18	PL	121-14-2	1
2,6-Dinitrotoluene	1,670	ug/kg	40	8270C	05/08/12 14:18	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,780	ug/kg	40	8270C	05/08/12 14:18	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,270	ug/kg	40	8270C	05/08/12 14:18	PL	534-52-1	1
Dibenzo(ah)anthracene	1,620	ug/kg	70	8270C	05/08/12 14:18	PL	53-70-3	1
Dibenzofuran	1,600	ug/kg	40	8270C	05/08/12 14:18	PL	132-64-9	1
Diethyl phthalate	1,720	ug/kg	70	8270C	05/08/12 14:18	PL	84-66-2	1
Dimethyl phthalate	1,640	ug/kg	40	8270C	05/08/12 14:18	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	1,840	ug/kg	70	8270C	05/08/12 14:18	PL	117-81-7	1
Fluoranthene	1,610	ug/kg	40	8270C	05/08/12 14:18	PL	206-44-0	1
Fluorene	1,620	ug/kg	40	8270C	05/08/12 14:18	PL	86-73-7	1
Hexachlorobenzene	1,620	ug/kg	40	8270C	05/08/12 14:18	PL	118-74-1	1
Hexachlorobutadiene	1,470	ug/kg	40	8270C	05/08/12 14:18	PL	87-68-3	1
Hexachlorocyclopentadiene	1,100	ug/kg	40	8270C	05/08/12 14:18	PL	77-47-4	1
Hexachloroethane	1,410	ug/kg	40	8270C	05/08/12 14:18	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,630	ug/kg	40	8270C	05/08/12 14:18	PL	193-39-5	1
Isophorone	1,540	ug/kg	40	8270C	05/08/12 14:18	PL	78-59-1	1
2-Methylnaphthalene	1,470	ug/kg	40	8270C	05/08/12 14:18	PL	91-57-6	1
2-Methylphenol	1,550	ug/kg	40	8270C	05/08/12 14:18	PL	95-48-7	1
3-, 4-Methylphenol	3,310	ug/kg	70	8270C	05/08/12 14:18	PL	3/4-Cresol	1
2-Nitroaniline	1,680	ug/kg	40	8270C	05/08/12 14:18	PL	88-74-4	1

1-Sample spiked at 1.79 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.09 (continued)

Sample Tag: VAP-A5.2-NV98_1-2 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	1,490	ug/kg	40	8270C	05/08/12 14:18	PL	88-75-5	1
3-Nitroaniline	1,600	ug/kg	40	8270C	05/08/12 14:18	PL	99-09-2	1
4-Nitroaniline	1,870	ug/kg	40	8270C	05/08/12 14:18	PL	100-01-6	1
4-Nitrophenol	1,570	ug/kg	40	8270C	05/08/12 14:18	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,590	ug/kg	40	8270C	05/08/12 14:18	PL	621-64-7	1
N-Nitrosodiphenylamine	1,380	ug/kg	40	8270C	05/08/12 14:18	PL	86-30-6	1
Naphthalene	1,450	ug/kg	40	8270C	05/08/12 14:18	PL	91-20-3	1
Nitrobenzene	1,480	ug/kg	40	8270C	05/08/12 14:18	PL	98-95-3	1
di-n-Octyl phthalate	1,690	ug/kg	70	8270C	05/08/12 14:18	PL	117-84-0	1
Pentachlorophenol	1,320	ug/kg	40	8270C	05/08/12 14:18	PL	87-86-5	1
Phenanthrene	1,600	ug/kg	40	8270C	05/08/12 14:18	PL	85-01-8	1
Phenol	1,690	ug/kg	40	8270C	05/08/12 14:18	PL	108-95-2	1
Pyrene	1,590	ug/kg	40	8270C	05/08/12 14:18	PL	129-00-0	1
2,4,5-Trichlorophenol	1,690	ug/kg	40	8270C	05/08/12 14:18	PL	95-95-4	1
2,4,6-Trichlorophenol	1,640	ug/kg	40	8270C	05/08/12 14:18	PL	88-06-2	1

1-Sample spiked at 1.79 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.10
Sample Tag: VAP-A5.2-NV98_11-12
Collected Date/Time: 05/03/2012 14:15
Matrix: Soil
COC Reference: 67645

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:02	EMR		
Extraction, PCB	Completed			3550B	05/09/12 9:33	CCM		
Mercury Digestion	Completed			7471A	05/09/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/04/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/11/12 16:04	PER	7440-36-0	
Arsenic	0.57	mg/kg	0.10	6020	05/11/12 16:04	PER	7440-38-2	
Barium	6.18	mg/kg	1.0	6020	05/11/12 16:04	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/11/12 16:04	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/11/12 16:04	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/11/12 16:04	PER	7440-43-9	
Chromium	1.22	mg/kg	0.21	6020	05/11/12 16:04	PER	7440-47-3	
Cobalt	1.82	mg/kg	0.21	6020	05/11/12 16:04	PER	7440-48-4	
Copper	1.83	mg/kg	0.21	6020	05/11/12 16:04	PER	7440-50-8	
Lead	1.35	mg/kg	0.21	6020	05/11/12 16:04	PER	7439-92-1	
Manganese	131	mg/kg	0.21	6020	05/11/12 16:04	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0056	7471A	05/09/12 15:21	JRT	7439-97-6	
Nickel	3.58	mg/kg	0.21	6020	05/11/12 16:04	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/11/12 16:04	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/11/12 16:04	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/11/12 16:04	PER	7440-28-0	
Vanadium	2.11	mg/kg	0.21	6020	05/11/12 16:04	PER	7440-62-2	
Zinc	4.94	mg/kg	1.0	6020	05/11/12 16:04	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/09/12 16:56	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/09/12 16:56	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/09/12 16:56	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/09/12 16:56	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/09/12 16:56	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/09/12 16:56	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/09/12 16:56	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.10 (continued)

Sample Tag: VAP-A5.2-NV98_11-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/09/12 19:01	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/09/12 19:01	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/09/12 19:01	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/09/12 19:01	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/09/12 19:01	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.10 (continued)

Sample Tag: VAP-A5.2-NV98_11-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/09/12 19:01	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/09/12 19:01	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.11

Sample Tag: VAP-A5.2-NV98_13-15

Collected Date/Time: 05/03/2012 14:40

Matrix: Wastewater

COC Reference: 67645

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.3	IR
3	40ml Glass	HCL	Yes	4.3	IR
1	125ml Plastic	HNO3	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

BNA Extraction	Completed			3510C	05/07/12 23:32	EMR		
Extraction, PCB	Completed			3510C	05/08/12 14:22	CCM		
Mercury Digestion	Completed			7471A	05/07/12 10:05	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:46	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:46	SLS	7440-38-2	
Barium, Dissolved	0.021	mg/L	0.010	6020	05/10/12 14:46	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 14:46	SLS	7440-41-7	
Boron, Dissolved	0.45	mg/L	0.04	6020	05/10/12 14:46	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 14:46	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:46	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:46	SLS	7440-48-4	
Copper, Dissolved	0.009	mg/L	0.002	6020	05/10/12 14:46	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:46	SLS	7439-92-1	
Manganese, Dissolved	0.123	mg/L	0.010	6020	05/10/12 14:46	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/08/12 11:40	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:46	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:46	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 14:46	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:46	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:46	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:46	SLS	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List Dissolved (Column 1)**

PCB-1016	Not detected	ug/L	0.05	8082A	05/09/12 15:29	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/09/12 15:29	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/09/12 15:29	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/09/12 15:29	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/09/12 15:29	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/09/12 15:29	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/09/12 15:29	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/08/12 16:58	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/08/12 16:58	PL	118-74-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.11 (continued)

Sample Tag: VAP-A5.2-NV98_13-15

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/09/12 15:06	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/09/12 15:06	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	05/09/12 15:06	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	3	ug/L	2	8270C	05/09/12 15:06	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	88-75-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52403.11 (continued)

Sample Tag: VAP-A5.2-NV98_13-15

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/09/12 15:06	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	100	8260B - SIM	05/10/12 16:30	JGH	123-91-1	



2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

67645

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME			
Randy Christensen			
COMPANY			
ARCADIS			
ADDRESS			
10559 Citation Drive Suite 100			
CITY			STATE
Brighton			MI
			ZIP CODE
			48116
PHONE NO.		FAX NO.	P.O. NO.
810-225-1910		810-229-8837	P0125047
E-MAIL ADDRESS			QUOTE NO.
randy.christensen@arcadis-us.com			Task#: 5

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208	E-MAIL ADDRESS dfavero@racertrust.org		

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Lansing Plant 2 Project# B0064479.2012	SAMPLER(S) - PLEASE PRINT/SIGN NAME Meryl Hicks / Austin Westhous
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER _____	
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____	

MATRIX	GW=GROUNDWATER	WW=WASTEWATER	S=SOIL	L=LIQUID	SD=SOLID
CODE:	SL=SLUDGE	DW=DRINKING WATER	O=OIL	WP=WPIE	A=AIR W=WASTE

[illegible]

DATE	TIME	LOCATION	DEPTH	PARAMETER	RESULT	REMARKS
10/10/01	14:30	100m	10m	SVOC	✓	
				PCB	✓	
				Metals	✓	
				1,4-dioxane	✓	
				SVOC	✓	
				PCB	✓	
				Metals	✓	
				1,4-dioxane	✓	
				SVOC	✓	
				PCB	✓	
				Metals	✓	
				1,4-dioxane	✓	
				SVOC	✓	
				PCB	✓	
				Metals	✓	
				1,4-dioxane	✓	
				SVOC	✓	
				PCB	✓	
				Metals	✓	
				1,4-dioxane	✓	
				SVOC	✓	
				PCB	✓	
				Metals	✓	
				1,4-dioxane	✓	
				SVOC	✓	
				PCB	✓	
				Metals	✓	
				1,4-dioxane	✓	
				SVOC	✓	
				PCB	✓	
				Metals	✓	
				1,4-dioxane	✓	
				SVOC	✓	
				PCB	✓	
				Metals	✓	
				1,4-dioxane	✓	
				SVOC	✓	
				PCB	✓	
				Metals	✓	
				1,4-dioxane	✓	
				SVOC	✓	
				PCB	✓	
				Metals	✓	
				1,4-dioxane	✓	
				SVOC	✓	
				PCB	✓	
				Metals	✓	
				1,4-dioxane	✓	
				SVOC	✓	
				PCB	✓	
				Metals	✓	
				1,4-dioxane	✓	
				SVOC	✓	
				PCB	✓	
				Metals	✓	
				1,4-dioxane	✓	
				SVOC	✓	
				PCB	✓	
				Metals	✓	
				1,4-dioxane	✓	
				SVOC	✓	
				PCB	✓	
				Metals	✓	
				1,4-dioxane	✓	
				SVOC	✓	
				PCB	✓	
				Metals	✓	
				1,4-dioxane	✓	
				SVOC	✓	
				PCB	✓	
				Metals	✓	
				1,4-dioxane	✓	
				SVOC	✓	
				PCB	✓	
				Metals	✓	
				1,4-dioxane	✓	
				SVOC	✓	
				PCB	✓	
				Metals	✓	
				1,4-dioxane	✓	
				SVOC	✓	
				PCB	✓	
				Metals	✓	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>Mary A. Hink</i>	☐ Sampler	DATE 5-4-10	TIME 915
RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>Sh</i> <i>mes</i>		DATE 5-4-10	TIME 915
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1.1



Analytical Laboratory Report

Revised Report

Report ID: S52404.01(02)

Generated on 05/21/2012

Replaces report S52404.01(01) generated on 05/15/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52404.01-S52404.25

Project: Lansing Plant #2 Project# B0064479.2012

Collected Date: 05/03/2012

Submitted Date/Time: 05/04/2012 09:45

Sampled by: Meryl H. /C.Barton

P.O. #: PO125047

PCB reporting limit lowered

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Revised Report

Sample Summary (25 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52404.01	SB-A5.2-NT111_1-2	Soil	05/03/2012 08:40
S52404.02	SB-A5.2-NT111_4-5	Soil	05/03/2012 09:03
S52404.03	SB-A5.2-NT111_7-8	Soil	05/03/2012 09:32
S52404.04	SB-A5.2-NT111_12-13	Soil	05/03/2012 09:45
S52404.05	SB-A5.2-NT111_17-18	Soil	05/03/2012 09:55
S52404.06	SB-A5.2-NT111_19-20	Soil	05/03/2012 10:03
S52404.07	SB-A5.2-NO106_1-2	Soil	05/03/2012 10:30
S52404.08	SB-A5.2-NO106_6-7	Soil	05/03/2012 10:45
S52404.09	SB-A5.2-NO106_10-11	Soil	05/03/2012 10:30
S52404.10	SB-A5.2-NO106_9-13	Groundwater	05/03/2012 12:15
S52404.11	SB-A5.2-NO106_13-14	Soil	05/03/2012 13:05
S52404.12	SB-A5.2-NO106_20-21	Soil	05/03/2012 13:20
S52404.13	SB-A5.2-NO106_20-21 MS	Soil	05/03/2012 13:20
S52404.14	SB-A5.2-NO106_20-21 MSD	Soil	05/03/2012 13:20
S52404.15	SB-A5.2-NO106_24-25	Soil	05/03/2012 13:35
S52404.16	SB-A5.2-NK111_1-2	Soil	05/03/2012 14:00
S52404.17	SB-A5.2-NK111_7.5-8.5	Soil	05/03/2012 14:22
S52404.18	SB-A5.2-NK111_12-13	Soil	05/03/2012 14:35
S52404.19	SB-A5.2-NK111_15-16	Soil	05/03/2012 14:42
S52404.20	SB-A5.2-NK111_20-21	Soil	05/03/2012 14:50
S52404.21	SB-A5.2-NK111_23-24	Soil	05/03/2012 16:22
S52404.22	SB-A5.2-NK111_25-26	Soil	05/03/2012 16:15
S52404.23	SB-A5.2-NG115_1-2	Soil	05/03/2012 16:50
S52404.24	SB-A5.2-NG115_6-7	Soil	05/03/2012 17:30
S52404.25	SB-A5.2-DUP08	Soil	05/03/2012 00:01



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.01
Sample Tag: SB-A5.2-NT111_1-2
Collected Date/Time: 05/03/2012 08:40
Matrix: Soil
COC Reference: 67627

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:02	EMR		
Extraction, PCB	Completed			3550B	05/09/12 9:33	CCM		
Mercury Digestion	Completed			7471A	05/09/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:00	PER		

Inorganics

Total Solids	80	%	1	Std M 2540 B	05/04/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/11/12 16:15	PER	7440-36-0	
Arsenic	0.99	mg/kg	0.10	6020	05/11/12 16:15	PER	7440-38-2	
Barium	18.3	mg/kg	1.0	6020	05/11/12 16:15	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/11/12 16:15	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	05/11/12 16:15	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/11/12 16:15	PER	7440-43-9	
Chromium	5.05	mg/kg	0.21	6020	05/11/12 16:15	PER	7440-47-3	
Cobalt	25.4	mg/kg	0.21	6020	05/11/12 16:15	PER	7440-48-4	
Copper	8.10	mg/kg	0.21	6020	05/11/12 16:15	PER	7440-50-8	
Lead	2.92	mg/kg	0.21	6020	05/11/12 16:15	PER	7439-92-1	
Manganese	148	mg/kg	0.21	6020	05/11/12 16:15	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0063	7471A	05/09/12 15:02	JRT	7439-97-6	
Nickel	6.77	mg/kg	0.21	6020	05/11/12 16:15	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/11/12 16:15	PER	7782-49-2	
Silver	3.31	mg/kg	0.10	6020	05/11/12 16:15	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/11/12 16:15	PER	7440-28-0	
Vanadium	2.45	mg/kg	0.21	6020	05/11/12 16:15	PER	7440-62-2	
Zinc	7.54	mg/kg	1.0	6020	05/11/12 16:15	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/09/12 17:06	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/09/12 17:06	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/09/12 17:06	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/09/12 17:06	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/09/12 17:06	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/09/12 17:06	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/09/12 17:06	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.01 (continued)

Sample Tag: SB-A5.2-NT111_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/09/12 19:30	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/09/12 19:30	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/09/12 19:30	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/09/12 19:30	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/09/12 19:30	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.01 (continued)

Sample Tag: SB-A5.2-NT111_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/09/12 19:30	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/09/12 19:30	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.02
Sample Tag: SB-A5.2-NT111_4-5
Collected Date/Time: 05/03/2012 09:03
Matrix: Soil
COC Reference: 67627

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:03	EMR		
Extraction, PCB	Completed			3550B	05/09/12 9:33	CCM		
Mercury Digestion	Completed			7471A	05/09/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/04/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/11/12 16:17	PER	7440-36-0	
Arsenic	1.02	mg/kg	0.10	6020	05/11/12 16:17	PER	7440-38-2	
Barium	37.6	mg/kg	1.0	6020	05/11/12 16:17	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.2	6020	05/11/12 16:17	PER	7440-41-7	
Boron	6.32	mg/kg	4.1	6020	05/11/12 16:17	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/11/12 16:17	PER	7440-43-9	
Chromium	4.47	mg/kg	0.20	6020	05/11/12 16:17	PER	7440-47-3	
Cobalt	4.05	mg/kg	0.2	6020	05/11/12 16:17	PER	7440-48-4	
Copper	4.55	mg/kg	0.20	6020	05/11/12 16:17	PER	7440-50-8	
Lead	4.07	mg/kg	0.20	6020	05/11/12 16:17	PER	7439-92-1	
Manganese	329	mg/kg	0.20	6020	05/11/12 16:17	PER	7439-96-5	
Mercury	0.0122	mg/kg	0.0054	7471A	05/09/12 15:06	JRT	7439-97-6	
Nickel	8.84	mg/kg	0.20	6020	05/11/12 16:17	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/11/12 16:17	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/11/12 16:17	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/11/12 16:17	PER	7440-28-0	
Vanadium	6.52	mg/kg	0.20	6020	05/11/12 16:17	PER	7440-62-2	
Zinc	9.54	mg/kg	1.0	6020	05/11/12 16:17	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/09/12 17:17	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/09/12 17:17	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/09/12 17:17	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/09/12 17:17	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/09/12 17:17	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/09/12 17:17	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/09/12 17:17	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.02 (continued)

Sample Tag: SB-A5.2-NT111_4-5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 14:47	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/08/12 14:47	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 14:47	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/08/12 14:47	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/08/12 14:47	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.02 (continued)

Sample Tag: SB-A5.2-NT111_4-5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 14:47	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 14:47	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.03
Sample Tag: SB-A5.2-NT111_7-8
Collected Date/Time: 05/03/2012 09:32
Matrix: Soil
COC Reference: 67627

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:03	EMR		
Extraction, PCB	Completed			3550B	05/09/12 9:33	CCM		
Mercury Digestion	Completed			7471A	05/09/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/04/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/11/12 16:19	PER	7440-36-0	
Arsenic	0.47	mg/kg	0.10	6020	05/11/12 16:19	PER	7440-38-2	
Barium	5.88	mg/kg	1.0	6020	05/11/12 16:19	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.2	6020	05/11/12 16:19	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/11/12 16:19	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/11/12 16:19	PER	7440-43-9	
Chromium	1.08	mg/kg	0.20	6020	05/11/12 16:19	PER	7440-47-3	
Cobalt	0.93	mg/kg	0.2	6020	05/11/12 16:19	PER	7440-48-4	
Copper	2.46	mg/kg	0.20	6020	05/11/12 16:19	PER	7440-50-8	
Lead	1.34	mg/kg	0.20	6020	05/11/12 16:19	PER	7439-92-1	
Manganese	87.8	mg/kg	0.20	6020	05/11/12 16:19	PER	7439-96-5	
Mercury	0.0081	mg/kg	0.0058	7471A	05/09/12 15:08	JRT	7439-97-6	
Nickel	2.42	mg/kg	0.20	6020	05/11/12 16:19	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/11/12 16:19	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/11/12 16:19	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/11/12 16:19	PER	7440-28-0	
Vanadium	1.93	mg/kg	0.20	6020	05/11/12 16:19	PER	7440-62-2	
Zinc	3.34	mg/kg	1.0	6020	05/11/12 16:19	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/10/12 13:19	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/10/12 13:19	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/10/12 13:19	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/10/12 13:19	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/10/12 13:19	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/10/12 13:19	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/10/12 13:19	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.03 (continued)

Sample Tag: SB-A5.2-NT111_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/08/12 15:16	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	120-83-2	
2,4-Dimethylphenol	240	ug/kg	40	8270C	05/08/12 15:16	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/08/12 15:16	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/08/12 15:16	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/08/12 15:16	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	91-57-6	
2-Methylphenol	50	ug/kg	40	8270C	05/08/12 15:16	PL	95-48-7	
3-, 4-Methylphenol	370	ug/kg	80	8270C	05/08/12 15:16	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.03 (continued)

Sample Tag: SB-A5.2-NT111_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/08/12 15:16	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 15:16	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.04
Sample Tag: SB-A5.2-NT111_12-13
Collected Date/Time: 05/03/2012 09:45
Matrix: Soil
COC Reference: 67627

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:03	EMR		
Extraction, PCB	Completed			3550B	05/09/12 9:33	CCM		
Mercury Digestion	Completed			7471A	05/09/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:00	PER		

Inorganics

Total Solids	85	%	1	Std M 2540 B	05/04/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/11/12 16:21	PER	7440-36-0	
Arsenic	1.50	mg/kg	0.10	6020	05/11/12 16:21	PER	7440-38-2	
Barium	15.2	mg/kg	1.0	6020	05/11/12 16:21	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/11/12 16:21	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/11/12 16:21	PER	7440-42-8	
Cadmium	0.15	mg/kg	0.10	6020	05/11/12 16:21	PER	7440-43-9	
Chromium	4.33	mg/kg	0.21	6020	05/11/12 16:21	PER	7440-47-3	
Cobalt	3.05	mg/kg	0.21	6020	05/11/12 16:21	PER	7440-48-4	
Copper	11.3	mg/kg	0.21	6020	05/11/12 16:21	PER	7440-50-8	
Lead	5.23	mg/kg	0.21	6020	05/11/12 16:21	PER	7439-92-1	
Manganese	269	mg/kg	0.21	6020	05/11/12 16:21	PER	7439-96-5	
Mercury	0.0147	mg/kg	0.0059	7471A	05/09/12 15:35	JRT	7439-97-6	
Nickel	9.30	mg/kg	0.21	6020	05/11/12 16:21	PER	7440-02-0	
Selenium	0.27	mg/kg	0.21	6020	05/11/12 16:21	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/11/12 16:21	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/11/12 16:21	PER	7440-28-0	
Vanadium	7.84	mg/kg	0.21	6020	05/11/12 16:21	PER	7440-62-2	
Zinc	18.0	mg/kg	1.0	6020	05/11/12 16:21	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/09/12 17:38	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/09/12 17:38	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/09/12 17:38	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/09/12 17:38	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/09/12 17:38	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/09/12 17:38	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/09/12 17:38	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.04 (continued)

Sample Tag: SB-A5.2-NT111_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/08/12 15:46	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/08/12 15:46	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/08/12 15:46	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/08/12 15:46	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/08/12 15:46	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.04 (continued)

Sample Tag: SB-A5.2-NT111_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/08/12 15:46	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 15:46	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.05

Sample Tag: SB-A5.2-NT111_17-18

Collected Date/Time: 05/03/2012 09:55

Matrix: Soil

COC Reference: 67627

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:03	EMR		
Extraction, PCB	Completed			3550B	05/09/12 9:33	CCM		
Mercury Digestion	Completed			7471A	05/09/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/04/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/11/12 16:23	PER	7440-36-0	
Arsenic	1.92	mg/kg	0.10	6020	05/11/12 16:23	PER	7440-38-2	
Barium	16.2	mg/kg	1.0	6020	05/11/12 16:23	PER	7440-39-3	
Beryllium	0.33	mg/kg	0.21	6020	05/11/12 16:23	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	05/11/12 16:23	PER	7440-42-8	
Cadmium	0.30	mg/kg	0.10	6020	05/11/12 16:23	PER	7440-43-9	
Chromium	2.39	mg/kg	0.21	6020	05/11/12 16:23	PER	7440-47-3	
Cobalt	2.54	mg/kg	0.21	6020	05/11/12 16:23	PER	7440-48-4	
Copper	9.08	mg/kg	0.21	6020	05/11/12 16:23	PER	7440-50-8	
Lead	4.81	mg/kg	0.21	6020	05/11/12 16:23	PER	7439-92-1	
Manganese	251	mg/kg	0.21	6020	05/11/12 16:23	PER	7439-96-5	
Mercury	0.0127	mg/kg	0.0056	7471A	05/09/12 15:37	JRT	7439-97-6	
Nickel	7.42	mg/kg	0.21	6020	05/11/12 16:23	PER	7440-02-0	
Selenium	0.30	mg/kg	0.21	6020	05/11/12 16:23	PER	7782-49-2	
Silver	0.21	mg/kg	0.10	6020	05/11/12 16:23	PER	7440-22-4	
Thallium	0.21	mg/kg	0.21	6020	05/11/12 16:23	PER	7440-28-0	
Vanadium	4.82	mg/kg	0.21	6020	05/11/12 16:23	PER	7440-62-2	
Zinc	12.4	mg/kg	1.0	6020	05/11/12 16:23	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/09/12 17:48	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/09/12 17:48	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/09/12 17:48	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/09/12 17:48	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/09/12 17:48	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/09/12 17:48	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/09/12 17:48	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.05 (continued)

Sample Tag: SB-A5.2-NT111_17-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/08/12 16:15	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/08/12 16:15	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/08/12 16:15	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/08/12 16:15	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/08/12 16:15	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.05 (continued)

Sample Tag: SB-A5.2-NT111_17-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/08/12 16:15	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 16:15	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.06
Sample Tag: SB-A5.2-NT111_19-20
Collected Date/Time: 05/03/2012 10:03
Matrix: Soil
COC Reference: 67627

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:03	EMR		
Extraction, PCB	Completed			3550B	05/09/12 9:33	CCM		
Mercury Digestion	Completed			7471A	05/09/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:00	PER		

Inorganics

Total Solids	93	%	1	Std M 2540 B	05/04/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/11/12 16:26	PER	7440-36-0	
Arsenic	1.31	mg/kg	0.10	6020	05/11/12 16:26	PER	7440-38-2	
Barium	8.95	mg/kg	1.0	6020	05/11/12 16:26	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.2	6020	05/11/12 16:26	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/11/12 16:26	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/11/12 16:26	PER	7440-43-9	
Chromium	1.92	mg/kg	0.20	6020	05/11/12 16:26	PER	7440-47-3	
Cobalt	1.93	mg/kg	0.2	6020	05/11/12 16:26	PER	7440-48-4	
Copper	5.96	mg/kg	0.20	6020	05/11/12 16:26	PER	7440-50-8	
Lead	2.66	mg/kg	0.20	6020	05/11/12 16:26	PER	7439-92-1	
Manganese	155	mg/kg	0.20	6020	05/11/12 16:26	PER	7439-96-5	
Mercury	0.0076	mg/kg	0.0053	7471A	05/09/12 15:39	JRT	7439-97-6	
Nickel	6.15	mg/kg	0.20	6020	05/11/12 16:26	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/11/12 16:26	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/11/12 16:26	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/11/12 16:26	PER	7440-28-0	
Vanadium	3.53	mg/kg	0.20	6020	05/11/12 16:26	PER	7440-62-2	
Zinc	10.1	mg/kg	1.0	6020	05/11/12 16:26	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	50	8082A	05/09/12 17:59	JANB	12674-11-2	X
PCB-1242	Not detected	ug/kg	50	8082A	05/09/12 17:59	JANB	53469-21-9	X
PCB-1221	Not detected	ug/kg	50	8082A	05/09/12 17:59	JANB	11104-28-2	X
PCB-1232	Not detected	ug/kg	50	8082A	05/09/12 17:59	JANB	11141-16-5	X
PCB-1248	Not detected	ug/kg	50	8082A	05/09/12 17:59	JANB	12672-29-6	X
PCB-1254	Not detected	ug/kg	50	8082A	05/09/12 17:59	JANB	11097-69-1	X
PCB-1260	Not detected	ug/kg	50	8082A	05/09/12 17:59	JANB	11096-82-5	X

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	208-96-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.06 (continued)

Sample Tag: SB-A5.2-NT111_19-20

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	98-86-2	X
Anthracene	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	120-12-7	X
Atrazine	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	1,000	8270C	05/08/12 23:05	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	105-60-2	X
Carbazole	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	108-60-1	X
Chrysene	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	1,000	8270C	05/08/12 23:05	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	1,000	8270C	05/08/12 23:05	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	1,000	8270C	05/08/12 23:05	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	206-44-0	X
Fluorene	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	193-39-5	X
Isophorone	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	1,000	8270C	05/08/12 23:05	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	88-74-4	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.06 (continued)

Sample Tag: SB-A5.2-NT111_19-20

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	1,000	8270C	05/08/12 23:05	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	87-86-5	X
Phenanthrene	2,200	ug/kg	700	8270C	05/08/12 23:05	PL	85-01-8	X
Phenol	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	108-95-2	X
Pyrene	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	700	8270C	05/08/12 23:05	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.07
Sample Tag: SB-A5.2-NO106_1-2
Collected Date/Time: 05/03/2012 10:30
Matrix: Soil
COC Reference: 67627

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:03	EMR		
Extraction, PCB	Completed			3550B	05/09/12 9:33	CCM		
Mercury Digestion	Completed			7471A	05/09/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:00	PER		

Inorganics

Total Solids	95	%	1	Std M 2540 B	05/04/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/11/12 16:28	PER	7440-36-0	
Arsenic	0.67	mg/kg	0.10	6020	05/11/12 16:28	PER	7440-38-2	
Barium	7.35	mg/kg	1.0	6020	05/11/12 16:28	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.19	6020	05/11/12 16:28	PER	7440-41-7	
Boron	Not detected	mg/kg	3.9	6020	05/11/12 16:28	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/11/12 16:28	PER	7440-43-9	
Chromium	1.32	mg/kg	0.20	6020	05/11/12 16:28	PER	7440-47-3	
Cobalt	1.36	mg/kg	0.19	6020	05/11/12 16:28	PER	7440-48-4	
Copper	1.35	mg/kg	0.20	6020	05/11/12 16:28	PER	7440-50-8	
Lead	2.49	mg/kg	0.20	6020	05/11/12 16:28	PER	7439-92-1	
Manganese	142	mg/kg	0.20	6020	05/11/12 16:28	PER	7439-96-5	
Mercury	0.0088	mg/kg	0.0052	7471A	05/09/12 15:42	JRT	7439-97-6	
Nickel	3.63	mg/kg	0.20	6020	05/11/12 16:28	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/11/12 16:28	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/11/12 16:28	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/11/12 16:28	PER	7440-28-0	
Vanadium	1.76	mg/kg	0.20	6020	05/11/12 16:28	PER	7440-62-2	
Zinc	3.33	mg/kg	1.0	6020	05/11/12 16:28	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/09/12 18:09	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/09/12 18:09	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/09/12 18:09	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/09/12 18:09	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/09/12 18:09	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/09/12 18:09	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/09/12 18:09	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.07 (continued)

Sample Tag: SB-A5.2-NO106_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 16:44	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	56-55-3	
Benzo(a)pyrene	40	ug/kg	40	8270C	05/08/12 16:44	PL	50-32-8	
Benzo(b)fluoranthene	80	ug/kg	40	8270C	05/08/12 16:44	PL	205-99-2	p
Benzo(ghi)perylene	50	ug/kg	40	8270C	05/08/12 16:44	PL	191-24-2	
Benzo(k)fluoranthene	80	ug/kg	40	8270C	05/08/12 16:44	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	108-60-1	
Chrysene	40	ug/kg	40	8270C	05/08/12 16:44	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/08/12 16:44	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 16:44	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/08/12 16:44	PL	117-81-7	
Fluoranthene	50	ug/kg	40	8270C	05/08/12 16:44	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	50	ug/kg	40	8270C	05/08/12 16:44	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/08/12 16:44	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	88-75-5	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.07 (continued)

Sample Tag: SB-A5.2-NO106_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 16:44	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	108-95-2	
Pyrene	40	ug/kg	40	8270C	05/08/12 16:44	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 16:44	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.08
Sample Tag: SB-A5.2-NO106_6-7
Collected Date/Time: 05/03/2012 10:45
Matrix: Soil
COC Reference: 67627

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:03	EMR		
Extraction, PCB	Completed			3550B	05/09/12 9:33	CCM		
Mercury Digestion	Completed			7471A	05/09/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/04/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/11/12 16:30	PER	7440-36-0	
Arsenic	0.83	mg/kg	0.10	6020	05/11/12 16:30	PER	7440-38-2	
Barium	7.77	mg/kg	1.0	6020	05/11/12 16:30	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.2	6020	05/11/12 16:30	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/11/12 16:30	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/11/12 16:30	PER	7440-43-9	
Chromium	1.09	mg/kg	0.20	6020	05/11/12 16:30	PER	7440-47-3	
Cobalt	1.38	mg/kg	0.2	6020	05/11/12 16:30	PER	7440-48-4	
Copper	2.29	mg/kg	0.20	6020	05/11/12 16:30	PER	7440-50-8	
Lead	2.47	mg/kg	0.20	6020	05/11/12 16:30	PER	7439-92-1	
Manganese	169	mg/kg	0.20	6020	05/11/12 16:30	PER	7439-96-5	
Mercury	0.0062	mg/kg	0.0057	7471A	05/09/12 15:44	JRT	7439-97-6	
Nickel	3.57	mg/kg	0.20	6020	05/11/12 16:30	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/11/12 16:30	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/11/12 16:30	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/11/12 16:30	PER	7440-28-0	
Vanadium	1.94	mg/kg	0.20	6020	05/11/12 16:30	PER	7440-62-2	
Zinc	4.17	mg/kg	1.0	6020	05/11/12 16:30	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/09/12 16:22	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/09/12 16:22	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/09/12 16:22	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/09/12 16:22	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/09/12 16:22	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/09/12 16:22	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/09/12 16:22	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.08 (continued)

Sample Tag: SB-A5.2-NO106_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 17:13	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/08/12 17:13	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 17:13	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/08/12 17:13	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/08/12 17:13	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.08 (continued)

Sample Tag: SB-A5.2-NO106_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 17:13	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 17:13	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.09
Sample Tag: SB-A5.2-NO106_10-11
Collected Date/Time: 05/03/2012 10:30
Matrix: Soil
COC Reference: 67627

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:03	EMR		
Extraction, PCB	Completed			3550B	05/09/12 9:33	CCM		
Mercury Digestion	Completed			7471A	05/09/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:00	PER		

Inorganics

Total Solids	84	%	1	Std M 2540 B	05/04/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/11/12 16:32	PER	7440-36-0	
Arsenic	0.73	mg/kg	0.10	6020	05/11/12 16:32	PER	7440-38-2	
Barium	7.45	mg/kg	1.0	6020	05/11/12 16:32	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.2	6020	05/11/12 16:32	PER	7440-41-7	
Boron	Not detected	mg/kg	4	6020	05/11/12 16:32	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/11/12 16:32	PER	7440-43-9	
Chromium	1.30	mg/kg	0.20	6020	05/11/12 16:32	PER	7440-47-3	
Cobalt	1.09	mg/kg	0.2	6020	05/11/12 16:32	PER	7440-48-4	
Copper	4.65	mg/kg	0.20	6020	05/11/12 16:32	PER	7440-50-8	
Lead	1.97	mg/kg	0.20	6020	05/11/12 16:32	PER	7439-92-1	
Manganese	127	mg/kg	0.20	6020	05/11/12 16:32	PER	7439-96-5	
Mercury	0.0088	mg/kg	0.0059	7471A	05/09/12 15:46	JRT	7439-97-6	
Nickel	2.75	mg/kg	0.20	6020	05/11/12 16:32	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/11/12 16:32	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/11/12 16:32	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/11/12 16:32	PER	7440-28-0	
Vanadium	1.55	mg/kg	0.20	6020	05/11/12 16:32	PER	7440-62-2	
Zinc	4.88	mg/kg	1.0	6020	05/11/12 16:32	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/09/12 16:32	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/09/12 16:32	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/09/12 16:32	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/09/12 16:32	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/09/12 16:32	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/09/12 16:32	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/09/12 16:32	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.09 (continued)

Sample Tag: SB-A5.2-NO106_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/08/12 17:43	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/08/12 17:43	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/08/12 17:43	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/08/12 17:43	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/08/12 17:43	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	99-09-2	



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Revised Report

Lab Sample ID: S52404.09 (continued)

Sample Tag: SB-A5.2-NO106_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	100-02-7	
N-Nitrosodi-n-propylamine	660	ug/kg	40	8270C	05/08/12 17:43	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/08/12 17:43	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	85-01-8	
Phenol	50	ug/kg	40	8270C	05/08/12 17:43	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 17:43	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.10
Sample Tag: SB-A5.2-NO106_9-13
Collected Date/Time: 05/03/2012 12:15
Matrix: Groundwater
COC Reference: 67627

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.3	IR
3	40ml Glass	HCL	Yes	4.3	IR
1	125ml Plastic	HNO3	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/07/12 22:00	EMR		
Extraction, PCB	Completed			3510C	05/08/12 15:30	CCM		
Mercury Digestion	Completed			7471A	05/07/12 10:05	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	0.004	mg/L	0.002	6020	05/10/12 14:50	SLS	7440-36-0	
Arsenic, Dissolved	0.012	mg/L	0.002	6020	05/10/12 14:50	SLS	7440-38-2	
Barium, Dissolved	0.033	mg/L	0.010	6020	05/10/12 14:50	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 14:50	SLS	7440-41-7	
Boron, Dissolved	0.50	mg/L	0.04	6020	05/10/12 14:50	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 14:50	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:50	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:50	SLS	7440-48-4	
Copper, Dissolved	0.007	mg/L	0.002	6020	05/10/12 14:50	SLS	7440-50-8	
Lead, Dissolved	0.002	mg/L	0.002	6020	05/10/12 14:50	SLS	7439-92-1	
Manganese, Dissolved	0.164	mg/L	0.010	6020	05/10/12 14:50	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/07/12 11:43	JRH	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:50	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:50	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 14:50	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 14:50	SLS	7440-28-0	
Vanadium, Dissolved	0.003	mg/L	0.002	6020	05/10/12 14:50	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 14:50	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/09/12 15:18	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/09/12 15:18	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/09/12 15:18	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/09/12 15:18	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/09/12 15:18	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/09/12 15:18	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/09/12 15:18	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/08/12 17:28	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/08/12 17:28	PL	118-74-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.10 (continued)

Sample Tag: SB-A5.2-NO106_9-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	208-96-8	
Acetophenone	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	98-86-2	
Anthracene	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	120-12-7	
Atrazine	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	4	8270C	05/09/12 15:35	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	7005-72-3	
Caprolactam	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	105-60-2	
Carbazole	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	108-60-1	
Chrysene	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	120-83-2	
2,4-Dimethylphenol	47	ug/L	2	8270C	05/09/12 15:35	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	4	8270C	05/09/12 15:35	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	4	8270C	05/09/12 15:35	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	4	8270C	05/09/12 15:35	PL	117-81-7	
Fluoranthene	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	206-44-0	
Fluorene	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	193-39-5	
Isophorone	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	95-48-7	
3-, 4-Methylphenol	3	ug/L	2	8270C	05/09/12 15:35	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	88-74-4	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.10 (continued)

Sample Tag: SB-A5.2-NO106_9-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2-Nitrophenol	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	86-30-6	
Naphthalene	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	87-86-5	
Phenanthrene	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	85-01-8	
Phenol	21	ug/L	2	8270C	05/09/12 15:35	PL	108-95-2	
Pyrene	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	2	8270C	05/09/12 15:35	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	100	8260B - SIM	05/10/12 16:50	JGH	123-91-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.11
Sample Tag: SB-A5.2-NO106_13-14
Collected Date/Time: 05/03/2012 13:05
Matrix: Soil
COC Reference: 67627

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:03	EMR		
Extraction, PCB	Completed			3550B	05/09/12 9:33	CCM		
Mercury Digestion	Completed			7471A	05/09/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:00	PER		

Inorganics

Total Solids	80	%	1	Std M 2540 B	05/07/12 16:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.22	6020	05/11/12 16:34	PER	7440-36-0	
Arsenic	0.69	mg/kg	0.11	6020	05/11/12 16:34	PER	7440-38-2	
Barium	4.34	mg/kg	1.1	6020	05/11/12 16:34	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.22	6020	05/11/12 16:34	PER	7440-41-7	
Boron	Not detected	mg/kg	4.4	6020	05/11/12 16:34	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.11	6020	05/11/12 16:34	PER	7440-43-9	
Chromium	1.14	mg/kg	0.22	6020	05/11/12 16:34	PER	7440-47-3	
Cobalt	0.87	mg/kg	0.22	6020	05/11/12 16:34	PER	7440-48-4	
Copper	2.11	mg/kg	0.22	6020	05/11/12 16:34	PER	7440-50-8	
Lead	1.68	mg/kg	0.22	6020	05/11/12 16:34	PER	7439-92-1	
Manganese	220	mg/kg	0.22	6020	05/11/12 16:34	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0062	7471A	05/09/12 15:48	JRT	7439-97-6	
Nickel	2.79	mg/kg	0.22	6020	05/11/12 16:34	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.22	6020	05/11/12 16:34	PER	7782-49-2	
Silver	Not detected	mg/kg	0.11	6020	05/11/12 16:34	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.22	6020	05/11/12 16:34	PER	7440-28-0	
Vanadium	1.15	mg/kg	0.22	6020	05/11/12 16:34	PER	7440-62-2	
Zinc	3.17	mg/kg	1.1	6020	05/11/12 16:34	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/09/12 16:43	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/09/12 16:43	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/09/12 16:43	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/09/12 16:43	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/09/12 16:43	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/09/12 16:43	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/09/12 16:43	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.11 (continued)

Sample Tag: SB-A5.2-NO106_13-14

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/08/12 18:12	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/08/12 18:12	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/08/12 18:12	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/08/12 18:12	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/08/12 18:12	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.11 (continued)

Sample Tag: SB-A5.2-NO106_13-14

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/08/12 18:12	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 18:12	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.12
Sample Tag: SB-A5.2-NO106_20-21
Collected Date/Time: 05/03/2012 13:20
Matrix: Soil
COC Reference: 67627

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:03	EMR		
Extraction, PCB	Completed			3550B	05/09/12 13:15	CCM		
Mercury Digestion	Completed			7471A	05/09/12 13:25	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:30	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/07/12 16:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/14/12 13:16	PER	7440-36-0	
Arsenic	2.69	mg/kg	0.10	6020	05/14/12 13:16	PER	7440-38-2	
Barium	16.4	mg/kg	1.0	6020	05/14/12 13:16	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/14/12 13:16	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/14/12 13:16	PER	7440-42-8	
Cadmium	0.10	mg/kg	0.10	6020	05/14/12 13:16	PER	7440-43-9	
Chromium	5.46	mg/kg	0.20	6020	05/14/12 13:16	PER	7440-47-3	
Cobalt	3.13	mg/kg	0.20	6020	05/14/12 13:16	PER	7440-48-4	
Copper	9.35	mg/kg	0.20	6020	05/14/12 13:16	PER	7440-50-8	
Lead	4.01	mg/kg	0.20	6020	05/14/12 13:16	PER	7439-92-1	
Manganese	219	mg/kg	0.20	6020	05/14/12 13:16	PER	7439-96-5	
Mercury	0.0166	mg/kg	0.0055	7471A	05/09/12 16:25	JRT	7439-97-6	
Nickel	8.99	mg/kg	0.20	6020	05/14/12 13:16	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/14/12 13:16	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 13:16	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/14/12 13:16	PER	7440-28-0	
Vanadium	8.92	mg/kg	0.20	6020	05/14/12 13:16	PER	7440-62-2	
Zinc	17.4	mg/kg	1.0	6020	05/14/12 13:16	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/09/12 15:53	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/09/12 15:53	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/09/12 15:53	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/09/12 15:53	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/09/12 15:53	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/09/12 15:53	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/09/12 15:53	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	208-96-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.12 (continued)

Sample Tag: SB-A5.2-NO106_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	98-86-2	X
Anthracene	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	120-12-7	X
Atrazine	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	1,000	8270C	05/08/12 21:37	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	105-60-2	X
Carbazole	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	108-60-1	X
Chrysene	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	120-83-2	X
2,4-Dimethylphenol	11,800	ug/kg	500	8270C	05/08/12 21:37	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	1,000	8270C	05/08/12 21:37	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	1,000	8270C	05/08/12 21:37	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	1,000	8270C	05/08/12 21:37	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	206-44-0	X
Fluorene	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	193-39-5	X
Isophorone	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	91-57-6	X
2-Methylphenol	1,000	ug/kg	500	8270C	05/08/12 21:37	PL	95-48-7	X
3-, 4-Methylphenol	47,000	ug/kg	1,000	8270C	05/08/12 21:37	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	88-74-4	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.12 (continued)

Sample Tag: SB-A5.2-NO106_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	1,000	8270C	05/08/12 21:37	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	87-86-5	X
Phenanthrene	1,000	ug/kg	500	8270C	05/08/12 21:37	PL	85-01-8	X
Phenol	44,900	ug/kg	500	8270C	05/08/12 21:37	PL	108-95-2	X
Pyrene	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	500	8270C	05/08/12 21:37	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.13
Sample Tag: SB-A5.2-NO106_20-21 MS
Collected Date/Time: 05/03/2012 13:20
Matrix: Soil
COC Reference: 67627

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:03	EMR		
Extraction, PCB	Completed			3550B	05/09/12 13:15	CCM		
Mercury Digestion	Completed			7471A	05/09/12 13:25	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:30	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/07/12 16:30	RGS		
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Metals

Antimony	17.6	mg/kg	0.20	6020	05/14/12 13:20	PER	7440-36-0	
Arsenic	24.7	mg/kg	0.10	6020	05/14/12 13:20	PER	7440-38-2	
Barium	39.9	mg/kg	1.0	6020	05/14/12 13:20	PER	7440-39-3	
Beryllium	23.0	mg/kg	0.20	6020	05/14/12 13:20	PER	7440-41-7	
Boron	24.2	mg/kg	4.1	6020	05/14/12 13:20	PER	7440-42-8	
Cadmium	21.6	mg/kg	0.10	6020	05/14/12 13:20	PER	7440-43-9	
Chromium	27.5	mg/kg	0.20	6020	05/14/12 13:20	PER	7440-47-3	
Cobalt	23.5	mg/kg	0.20	6020	05/14/12 13:20	PER	7440-48-4	
Copper	33.0	mg/kg	0.20	6020	05/14/12 13:20	PER	7440-50-8	
Lead	23.4	mg/kg	0.20	6020	05/14/12 13:20	PER	7439-92-1	
Manganese	239	mg/kg	0.20	6020	05/14/12 13:20	PER	7439-96-5	
Mercury	0.1161	mg/kg	0.0055	7471A	05/09/12 16:27	JRT	7439-97-6	
Nickel	29.2	mg/kg	0.20	6020	05/14/12 13:20	PER	7440-02-0	
Selenium	21.2	mg/kg	0.20	6020	05/14/12 13:20	PER	7782-49-2	
Silver	19.4	mg/kg	0.10	6020	05/14/12 13:20	PER	7440-22-4	
Thallium	17.9	mg/kg	0.20	6020	05/14/12 13:20	PER	7440-28-0	
Vanadium	31.4	mg/kg	0.20	6020	05/14/12 13:20	PER	7440-62-2	
Zinc	35.3	mg/kg	1.0	6020	05/14/12 13:20	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	20	ug/kg	3	8082A	05/09/12 16:03	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/09/12 16:03	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/09/12 16:03	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/09/12 16:03	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/09/12 16:03	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/09/12 16:03	JANB	11097-69-1	
PCB-1260	30	ug/kg	3	8082A	05/09/12 16:03	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	1,600	ug/kg	500	8270C	05/08/12 22:06	PL	83-32-9	X1
Acenaphthylene	1,600	ug/kg	500	8270C	05/08/12 22:06	PL	208-96-8	X1

X-Elevated reporting limit due to matrix interference 1-Sample spiked at 1.8 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.13 (continued)

Sample Tag: SB-A5.2-NO106_20-21 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	1,900	ug/kg	500	8270C	05/08/12 22:06	PL	98-86-2	X1
Anthracene	1,600	ug/kg	500	8270C	05/08/12 22:06	PL	120-12-7	X1
Atrazine	2,100	ug/kg	500	8270C	05/08/12 22:06	PL	1912-24-9	X1
1,1'-Biphenyl	1,700	ug/kg	500	8270C	05/08/12 22:06	PL	92-52-4	X1
4-Bromophenyl phenyl ether	1,800	ug/kg	500	8270C	05/08/12 22:06	PL	101-55-3	X1
di-n-Butyl phthalate	2,000	ug/kg	1,000	8270C	05/08/12 22:06	PL	84-74-2	X1
Benzaldehyde	1,300	ug/kg	500	8270C	05/08/12 22:06	PL	100-52-7	X1
Benzo(a)anthracene	1,600	ug/kg	500	8270C	05/08/12 22:06	PL	56-55-3	X1
Benzo(a)pyrene	1,600	ug/kg	500	8270C	05/08/12 22:06	PL	50-32-8	X1
Benzo(b)fluoranthene	1,700	ug/kg	500	8270C	05/08/12 22:06	PL	205-99-2	X1
Benzo(ghi)perylene	1,300	ug/kg	500	8270C	05/08/12 22:06	PL	191-24-2	X1
Benzo(k)fluoranthene	1,600	ug/kg	500	8270C	05/08/12 22:06	PL	207-08-9	X1
Butyl benzyl phthalate	1,900	ug/kg	500	8270C	05/08/12 22:06	PL	85-68-7	X1
2-Chloronaphthalene	1,600	ug/kg	500	8270C	05/08/12 22:06	PL	91-58-7	X1
2-Chlorophenol	1,500	ug/kg	500	8270C	05/08/12 22:06	PL	95-57-8	X1
4-Chloro-3-methylphenol	1,700	ug/kg	500	8270C	05/08/12 22:06	PL	59-50-7	X1
4-Chloroaniline	1,400	ug/kg	500	8270C	05/08/12 22:06	PL	106-47-8	X1
4-Chlorophenyl phenyl ether	1,700	ug/kg	500	8270C	05/08/12 22:06	PL	7005-72-3	X1
Caprolactam	1,300	ug/kg	500	8270C	05/08/12 22:06	PL	105-60-2	X1
Carbazole	1,700	ug/kg	500	8270C	05/08/12 22:06	PL	86-74-8	X1
bis(2-Chloroethoxy)methane	1,600	ug/kg	500	8270C	05/08/12 22:06	PL	111-91-1	X1
bis(2-Chloroethyl)ether	1,500	ug/kg	500	8270C	05/08/12 22:06	PL	111-44-4	X1
bis(2-Chloroisopropyl)ether	1,300	ug/kg	500	8270C	05/08/12 22:06	PL	108-60-1	X1
Chrysene	1,700	ug/kg	500	8270C	05/08/12 22:06	PL	218-01-9	X1
2,4-Dichlorophenol	1,500	ug/kg	500	8270C	05/08/12 22:06	PL	120-83-2	X1
2,4-Dimethylphenol	8,200	ug/kg	500	8270C	05/08/12 22:06	PL	105-67-9	X1
2,4-Dinitrophenol	Not detected	ug/kg	500	8270C	05/08/12 22:06	PL	51-28-5	X1
2,4-Dinitrotoluene	1,500	ug/kg	500	8270C	05/08/12 22:06	PL	121-14-2	X1
2,6-Dinitrotoluene	1,500	ug/kg	500	8270C	05/08/12 22:06	PL	606-20-2	X1
3,3'-Dichlorobenzidine	1,700	ug/kg	500	8270C	05/08/12 22:06	PL	91-94-1	X1
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	500	8270C	05/08/12 22:06	PL	534-52-1	X1
Dibenzo(ah)anthracene	1,000	ug/kg	1,000	8270C	05/08/12 22:06	PL	53-70-3	X1
Dibenzofuran	1,700	ug/kg	500	8270C	05/08/12 22:06	PL	132-64-9	X1
Diethyl phthalate	2,000	ug/kg	1,000	8270C	05/08/12 22:06	PL	84-66-2	X1
Dimethyl phthalate	1,700	ug/kg	500	8270C	05/08/12 22:06	PL	131-11-3	X1
bis(2-Ethylhexyl)phthalate	2,000	ug/kg	1,000	8270C	05/08/12 22:06	PL	117-81-7	X1
Fluoranthene	1,700	ug/kg	500	8270C	05/08/12 22:06	PL	206-44-0	X1
Fluorene	1,700	ug/kg	500	8270C	05/08/12 22:06	PL	86-73-7	X1
Hexachlorobenzene	2,000	ug/kg	500	8270C	05/08/12 22:06	PL	118-74-1	X1
Hexachlorobutadiene	1,600	ug/kg	500	8270C	05/08/12 22:06	PL	87-68-3	X1
Hexachlorocyclopentadiene	Not detected	ug/kg	500	8270C	05/08/12 22:06	PL	77-47-4	X1
Hexachloroethane	1,300	ug/kg	500	8270C	05/08/12 22:06	PL	67-72-1	X1
Indeno(1,2,3-cd)pyrene	1,300	ug/kg	500	8270C	05/08/12 22:06	PL	193-39-5	X1
Isophorone	1,400	ug/kg	500	8270C	05/08/12 22:06	PL	78-59-1	X1
2-Methylnaphthalene	1,500	ug/kg	500	8270C	05/08/12 22:06	PL	91-57-6	X1
2-Methylphenol	2,200	ug/kg	500	8270C	05/08/12 22:06	PL	95-48-7	X1
3-, 4-Methylphenol	32,000	ug/kg	1,000	8270C	05/08/12 22:06	PL	3/4-Cresol	X1
2-Nitroaniline	1,600	ug/kg	500	8270C	05/08/12 22:06	PL	88-74-4	X1

X-Elevated reporting limit due to matrix interference 1-Sample spiked at 1.8 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.13 (continued)
Sample Tag: SB-A5.2-NO106_20-21 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	1,000	ug/kg	500	8270C	05/08/12 22:06	PL	88-75-5	X1
3-Nitroaniline	1,800	ug/kg	500	8270C	05/08/12 22:06	PL	99-09-2	X1
4-Nitroaniline	2,000	ug/kg	500	8270C	05/08/12 22:06	PL	100-01-6	X1
4-Nitrophenol	1,300	ug/kg	500	8270C	05/08/12 22:06	PL	100-02-7	X1
N-Nitrosodi-n-propylamine	1,600	ug/kg	500	8270C	05/08/12 22:06	PL	621-64-7	X1
N-Nitrosodiphenylamine	1,600	ug/kg	500	8270C	05/08/12 22:06	PL	86-30-6	X1
Naphthalene	1,500	ug/kg	500	8270C	05/08/12 22:06	PL	91-20-3	X1
Nitrobenzene	1,500	ug/kg	500	8270C	05/08/12 22:06	PL	98-95-3	X1
di-n-Octyl phthalate	2,000	ug/kg	1,000	8270C	05/08/12 22:06	PL	117-84-0	X1
Pentachlorophenol	700	ug/kg	500	8270C	05/08/12 22:06	PL	87-86-5	X1
Phenanthrene	2,100	ug/kg	500	8270C	05/08/12 22:06	PL	85-01-8	X1
Phenol	33,400	ug/kg	500	8270C	05/08/12 22:06	PL	108-95-2	X1
Pyrene	1,700	ug/kg	500	8270C	05/08/12 22:06	PL	129-00-0	X1
2,4,5-Trichlorophenol	1,500	ug/kg	500	8270C	05/08/12 22:06	PL	95-95-4	X1
2,4,6-Trichlorophenol	1,600	ug/kg	500	8270C	05/08/12 22:06	PL	88-06-2	X1

X-Elevated reporting limit due to matrix interference 1-Sample spiked at 1.8 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.14

Sample Tag: SB-A5.2-NO106_20-21 MSD

Collected Date/Time: 05/03/2012 13:20

Matrix: Soil

COC Reference: 67627

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:03	EMR		
Extraction, PCB	Completed			3550B	05/09/12 13:15	CCM		
Mercury Digestion	Completed			7471A	05/09/12 13:25	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:30	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	05/07/12 16:30	RGS		
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Metals

Antimony	17.7	mg/kg	0.20	6020	05/14/12 13:25	PER	7440-36-0	
Arsenic	23.7	mg/kg	0.10	6020	05/14/12 13:25	PER	7440-38-2	
Barium	39.5	mg/kg	1.0	6020	05/14/12 13:25	PER	7440-39-3	
Beryllium	22.5	mg/kg	0.20	6020	05/14/12 13:25	PER	7440-41-7	
Boron	23.8	mg/kg	4.1	6020	05/14/12 13:25	PER	7440-42-8	
Cadmium	21.7	mg/kg	0.10	6020	05/14/12 13:25	PER	7440-43-9	
Chromium	27.3	mg/kg	0.20	6020	05/14/12 13:25	PER	7440-47-3	
Cobalt	23.5	mg/kg	0.20	6020	05/14/12 13:25	PER	7440-48-4	
Copper	32.7	mg/kg	0.20	6020	05/14/12 13:25	PER	7440-50-8	
Lead	23.7	mg/kg	0.20	6020	05/14/12 13:25	PER	7439-92-1	
Manganese	239	mg/kg	0.20	6020	05/14/12 13:25	PER	7439-96-5	
Mercury	0.1323	mg/kg	0.0055	7471A	05/09/12 16:29	JRT	7439-97-6	
Nickel	28.9	mg/kg	0.20	6020	05/14/12 13:25	PER	7440-02-0	
Selenium	20.6	mg/kg	0.20	6020	05/14/12 13:25	PER	7782-49-2	
Silver	19.4	mg/kg	0.10	6020	05/14/12 13:25	PER	7440-22-4	
Thallium	18.2	mg/kg	0.20	6020	05/14/12 13:25	PER	7440-28-0	
Vanadium	31.4	mg/kg	0.20	6020	05/14/12 13:25	PER	7440-62-2	
Zinc	35.2	mg/kg	1.0	6020	05/14/12 13:25	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	20	ug/kg	3	8082A	05/09/12 16:14	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/09/12 16:14	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/09/12 16:14	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/09/12 16:14	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/09/12 16:14	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/09/12 16:14	JANB	11097-69-1	
PCB-1260	20	ug/kg	3	8082A	05/09/12 16:14	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,600	ug/kg	500	8270C	05/08/12 22:35	PL	83-32-9	X1
Acenaphthylene	1,600	ug/kg	500	8270C	05/08/12 22:35	PL	208-96-8	X1

X-Elevated reporting limit due to matrix interference 1-Sample spiked at 1.8 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.14 (continued)

Sample Tag: SB-A5.2-NO106_20-21 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	1,800	ug/kg	500	8270C	05/08/12 22:35	PL	98-86-2	X1
Anthracene	1,600	ug/kg	500	8270C	05/08/12 22:35	PL	120-12-7	X1
Atrazine	1,800	ug/kg	500	8270C	05/08/12 22:35	PL	1912-24-9	X1
1,1'-Biphenyl	1,600	ug/kg	500	8270C	05/08/12 22:35	PL	92-52-4	X1
4-Bromophenyl phenyl ether	1,600	ug/kg	500	8270C	05/08/12 22:35	PL	101-55-3	X1
di-n-Butyl phthalate	2,000	ug/kg	1,000	8270C	05/08/12 22:35	PL	84-74-2	X1
Benzaldehyde	1,400	ug/kg	500	8270C	05/08/12 22:35	PL	100-52-7	X1
Benzo(a)anthracene	1,800	ug/kg	500	8270C	05/08/12 22:35	PL	56-55-3	X1
Benzo(a)pyrene	1,600	ug/kg	500	8270C	05/08/12 22:35	PL	50-32-8	X1
Benzo(b)fluoranthene	1,700	ug/kg	500	8270C	05/08/12 22:35	PL	205-99-2	X1
Benzo(ghi)perylene	1,300	ug/kg	500	8270C	05/08/12 22:35	PL	191-24-2	X1
Benzo(k)fluoranthene	1,600	ug/kg	500	8270C	05/08/12 22:35	PL	207-08-9	X1
Butyl benzyl phthalate	1,900	ug/kg	500	8270C	05/08/12 22:35	PL	85-68-7	X1
2-Chloronaphthalene	1,600	ug/kg	500	8270C	05/08/12 22:35	PL	91-58-7	X1
2-Chlorophenol	1,500	ug/kg	500	8270C	05/08/12 22:35	PL	95-57-8	X1
4-Chloro-3-methylphenol	1,800	ug/kg	500	8270C	05/08/12 22:35	PL	59-50-7	X1
4-Chloroaniline	1,500	ug/kg	500	8270C	05/08/12 22:35	PL	106-47-8	X1
4-Chlorophenyl phenyl ether	1,700	ug/kg	500	8270C	05/08/12 22:35	PL	7005-72-3	X1
Caprolactam	1,400	ug/kg	500	8270C	05/08/12 22:35	PL	105-60-2	X1
Carbazole	1,700	ug/kg	500	8270C	05/08/12 22:35	PL	86-74-8	X1
bis(2-Chloroethoxy)methane	1,600	ug/kg	500	8270C	05/08/12 22:35	PL	111-91-1	X1
bis(2-Chloroethyl)ether	1,500	ug/kg	500	8270C	05/08/12 22:35	PL	111-44-4	X1
bis(2-Chloroisopropyl)ether	1,400	ug/kg	500	8270C	05/08/12 22:35	PL	108-60-1	X1
Chrysene	1,800	ug/kg	500	8270C	05/08/12 22:35	PL	218-01-9	X1
2,4-Dichlorophenol	1,600	ug/kg	500	8270C	05/08/12 22:35	PL	120-83-2	X1
2,4-Dimethylphenol	5,300	ug/kg	500	8270C	05/08/12 22:35	PL	105-67-9	X1
2,4-Dinitrophenol	Not detected	ug/kg	500	8270C	05/08/12 22:35	PL	51-28-5	X1
2,4-Dinitrotoluene	1,700	ug/kg	500	8270C	05/08/12 22:35	PL	121-14-2	X1
2,6-Dinitrotoluene	1,600	ug/kg	500	8270C	05/08/12 22:35	PL	606-20-2	X1
3,3'-Dichlorobenzidine	2,000	ug/kg	500	8270C	05/08/12 22:35	PL	91-94-1	X1
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	500	8270C	05/08/12 22:35	PL	534-52-1	X1
Dibenzo(ah)anthracene	1,000	ug/kg	1,000	8270C	05/08/12 22:35	PL	53-70-3	X1
Dibenzofuran	1,600	ug/kg	500	8270C	05/08/12 22:35	PL	132-64-9	X1
Diethyl phthalate	2,000	ug/kg	1,000	8270C	05/08/12 22:35	PL	84-66-2	X1
Dimethyl phthalate	1,700	ug/kg	500	8270C	05/08/12 22:35	PL	131-11-3	X1
bis(2-Ethylhexyl)phthalate	2,000	ug/kg	1,000	8270C	05/08/12 22:35	PL	117-81-7	X1
Fluoranthene	1,700	ug/kg	500	8270C	05/08/12 22:35	PL	206-44-0	X1
Fluorene	1,700	ug/kg	500	8270C	05/08/12 22:35	PL	86-73-7	X1
Hexachlorobenzene	1,700	ug/kg	500	8270C	05/08/12 22:35	PL	118-74-1	X1
Hexachlorobutadiene	1,600	ug/kg	500	8270C	05/08/12 22:35	PL	87-68-3	X1
Hexachlorocyclopentadiene	Not detected	ug/kg	500	8270C	05/08/12 22:35	PL	77-47-4	X1
Hexachloroethane	1,400	ug/kg	500	8270C	05/08/12 22:35	PL	67-72-1	X1
Indeno(1,2,3-cd)pyrene	1,400	ug/kg	500	8270C	05/08/12 22:35	PL	193-39-5	X1
Isophorone	1,600	ug/kg	500	8270C	05/08/12 22:35	PL	78-59-1	X1
2-Methylnaphthalene	1,500	ug/kg	500	8270C	05/08/12 22:35	PL	91-57-6	X1
2-Methylphenol	1,900	ug/kg	500	8270C	05/08/12 22:35	PL	95-48-7	X1
3-, 4-Methylphenol	22,000	ug/kg	1,000	8270C	05/08/12 22:35	PL	3/4-Cresol	X1
2-Nitroaniline	1,600	ug/kg	500	8270C	05/08/12 22:35	PL	88-74-4	X1

X-Elevated reporting limit due to matrix interference 1-Sample spiked at 1.8 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.14 (continued)
Sample Tag: SB-A5.2-NO106_20-21 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	1,100	ug/kg	500	8270C	05/08/12 22:35	PL	88-75-5	X1
3-Nitroaniline	1,700	ug/kg	500	8270C	05/08/12 22:35	PL	99-09-2	X1
4-Nitroaniline	2,000	ug/kg	500	8270C	05/08/12 22:35	PL	100-01-6	X1
4-Nitrophenol	1,000	ug/kg	500	8270C	05/08/12 22:35	PL	100-02-7	X1
N-Nitrosodi-n-propylamine	1,700	ug/kg	500	8270C	05/08/12 22:35	PL	621-64-7	X1
N-Nitrosodiphenylamine	1,500	ug/kg	500	8270C	05/08/12 22:35	PL	86-30-6	X1
Naphthalene	1,500	ug/kg	500	8270C	05/08/12 22:35	PL	91-20-3	X1
Nitrobenzene	1,400	ug/kg	500	8270C	05/08/12 22:35	PL	98-95-3	X1
di-n-Octyl phthalate	2,000	ug/kg	1,000	8270C	05/08/12 22:35	PL	117-84-0	X1
Pentachlorophenol	Not detected	ug/kg	500	8270C	05/08/12 22:35	PL	87-86-5	X1
Phenanthrene	1,800	ug/kg	500	8270C	05/08/12 22:35	PL	85-01-8	X1
Phenol	28,700	ug/kg	500	8270C	05/08/12 22:35	PL	108-95-2	X1
Pyrene	1,700	ug/kg	500	8270C	05/08/12 22:35	PL	129-00-0	X1
2,4,5-Trichlorophenol	1,500	ug/kg	500	8270C	05/08/12 22:35	PL	95-95-4	X1
2,4,6-Trichlorophenol	1,600	ug/kg	500	8270C	05/08/12 22:35	PL	88-06-2	X1

X-Elevated reporting limit due to matrix interference 1-Sample spiked at 1.8 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.15
Sample Tag: SB-A5.2-NO106_24-25
Collected Date/Time: 05/03/2012 13:35
Matrix: Soil
COC Reference: 67626

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:03	EMR		
Extraction, PCB	Completed			3550B	05/09/12 9:33	CCM		
Mercury Digestion	Completed			7471A	05/09/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:30	PER		

Inorganics

Total Solids	95	%	1	Std M 2540 B	05/07/12 16:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/14/12 13:36	PER	7440-36-0	
Arsenic	1.54	mg/kg	0.10	6020	05/14/12 13:36	PER	7440-38-2	
Barium	3.23	mg/kg	1.0	6020	05/14/12 13:36	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/14/12 13:36	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/14/12 13:36	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 13:36	PER	7440-43-9	
Chromium	0.70	mg/kg	0.20	6020	05/14/12 13:36	PER	7440-47-3	
Cobalt	0.98	mg/kg	0.20	6020	05/14/12 13:36	PER	7440-48-4	
Copper	2.49	mg/kg	0.20	6020	05/14/12 13:36	PER	7440-50-8	
Lead	2.26	mg/kg	0.20	6020	05/14/12 13:36	PER	7439-92-1	
Manganese	112	mg/kg	0.20	6020	05/14/12 13:36	PER	7439-96-5	
Mercury	0.0056	mg/kg	0.0053	7471A	05/09/12 15:51	JRT	7439-97-6	
Nickel	3.06	mg/kg	0.20	6020	05/14/12 13:36	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/14/12 13:36	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 13:36	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/14/12 13:36	PER	7440-28-0	
Vanadium	1.20	mg/kg	0.20	6020	05/14/12 13:36	PER	7440-62-2	
Zinc	16.7	mg/kg	1.0	6020	05/14/12 13:36	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/09/12 16:53	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/09/12 16:53	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/09/12 16:53	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/09/12 16:53	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/09/12 16:53	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/09/12 16:53	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/09/12 16:53	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.15 (continued)

Sample Tag: SB-A5.2-NO106_24-25

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 18:41	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	120-83-2	
2,4-Dimethylphenol	100	ug/kg	40	8270C	05/08/12 18:41	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/08/12 18:41	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 18:41	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/08/12 18:41	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	91-57-6	
2-Methylphenol	120	ug/kg	40	8270C	05/08/12 18:41	PL	95-48-7	
3-, 4-Methylphenol	6,350	ug/kg	70	8270C	05/08/12 18:41	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.15 (continued)

Sample Tag: SB-A5.2-NO106_24-25

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 18:41	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	85-01-8	
Phenol	18,770	ug/kg	40	8270C	05/08/12 18:41	PL	108-95-2	E
Pyrene	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 18:41	PL	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	208-96-8	
Acetophenone	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	98-86-2	
Anthracene	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	120-12-7	
Atrazine	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	400	8270C	05/09/12 19:59	PL	84-74-2	Y
Benzaldehyde	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	105-60-2	
Carbazole	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	108-60-1	
Chrysene	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	91-94-1	

E-Concentration exceeds calibration range

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.15 (continued)

Sample Tag: SB-A5.2-NO106_24-25

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	400	8270C	05/09/12 19:59	PL	53-70-3	Y
Dibenzofuran	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	400	8270C	05/09/12 19:59	PL	84-66-2	Y
Dimethyl phthalate	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	400	8270C	05/09/12 19:59	PL	117-81-7	Y
Fluoranthene	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	206-44-0	
Fluorene	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	193-39-5	
Isophorone	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	95-48-7	
3-, 4-Methylphenol	4,700	ug/kg	400	8270C	05/09/12 19:59	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	86-30-6	
Naphthalene	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	400	8270C	05/09/12 19:59	PL	117-84-0	Y
Pentachlorophenol	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	85-01-8	
Phenol	13,800	ug/kg	200	8270C	05/09/12 19:59	PL	108-95-2	
Pyrene	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	200	8270C	05/09/12 19:59	PL	88-06-2	

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.16
Sample Tag: SB-A5.2-NK111_1-2
Collected Date/Time: 05/03/2012 14:00
Matrix: Soil
COC Reference: 67626

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:03	EMR		
Extraction, PCB	Completed			3550B	05/09/12 13:15	CCM		
Mercury Digestion	Completed			7471A	05/09/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:30	PER		

Inorganics

Total Solids	94	%	1	Std M 2540 B	05/07/12 16:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/14/12 13:47	PER	7440-36-0	
Arsenic	0.54	mg/kg	0.10	6020	05/14/12 13:47	PER	7440-38-2	
Barium	11.2	mg/kg	1.0	6020	05/14/12 13:47	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/14/12 13:47	PER	7440-41-7	
Boron	Not detected	mg/kg	3.9	6020	05/14/12 13:47	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 13:47	PER	7440-43-9	
Chromium	1.61	mg/kg	0.20	6020	05/14/12 13:47	PER	7440-47-3	
Cobalt	2.46	mg/kg	0.20	6020	05/14/12 13:47	PER	7440-48-4	
Copper	1.83	mg/kg	0.20	6020	05/14/12 13:47	PER	7440-50-8	
Lead	2.10	mg/kg	0.20	6020	05/14/12 13:47	PER	7439-92-1	
Manganese	151	mg/kg	0.20	6020	05/14/12 13:47	PER	7439-96-5	
Mercury	0.0093	mg/kg	0.0053	7471A	05/09/12 15:53	JRT	7439-97-6	
Nickel	5.02	mg/kg	0.20	6020	05/14/12 13:47	PER	7440-02-0	
Selenium	0.21	mg/kg	0.20	6020	05/14/12 13:47	PER	7782-49-2	
Silver	0.14	mg/kg	0.10	6020	05/14/12 13:47	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/14/12 13:47	PER	7440-28-0	
Vanadium	2.16	mg/kg	0.20	6020	05/14/12 13:47	PER	7440-62-2	
Zinc	3.89	mg/kg	1.0	6020	05/14/12 13:47	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/09/12 17:04	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/09/12 17:04	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/09/12 17:04	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/09/12 17:04	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/09/12 17:04	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/09/12 17:04	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/09/12 17:04	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.16 (continued)

Sample Tag: SB-A5.2-NK111_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 19:10	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/08/12 19:10	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 19:10	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/08/12 19:10	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/08/12 19:10	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.16 (continued)

Sample Tag: SB-A5.2-NK111_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 19:10	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 19:10	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.17

Sample Tag: SB-A5.2-NK111_7.5-8.5

Collected Date/Time: 05/03/2012 14:22

Matrix: Soil

COC Reference: 67626

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:03	EMR		
Extraction, PCB	Completed			3550B	05/09/12 13:15	CCM		
Mercury Digestion	Completed			7471A	05/09/12 13:25	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:30	PER		

Inorganics

Total Solids	97	%	1	Std M 2540 B	05/07/12 16:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/14/12 13:49	PER	7440-36-0	
Arsenic	1.21	mg/kg	0.10	6020	05/14/12 13:49	PER	7440-38-2	
Barium	24.6	mg/kg	1.0	6020	05/14/12 13:49	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/14/12 13:49	PER	7440-41-7	
Boron	Not detected	mg/kg	3.8	6020	05/14/12 13:49	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 13:49	PER	7440-43-9	
Chromium	4.98	mg/kg	0.20	6020	05/14/12 13:49	PER	7440-47-3	
Cobalt	2.69	mg/kg	0.20	6020	05/14/12 13:49	PER	7440-48-4	
Copper	7.69	mg/kg	0.20	6020	05/14/12 13:49	PER	7440-50-8	
Lead	4.01	mg/kg	0.20	6020	05/14/12 13:49	PER	7439-92-1	
Manganese	187	mg/kg	0.20	6020	05/14/12 13:49	PER	7439-96-5	
Mercury	0.0106	mg/kg	0.0051	7471A	05/09/12 16:04	JRT	7439-97-6	
Nickel	7.87	mg/kg	0.20	6020	05/14/12 13:49	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/14/12 13:49	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 13:49	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/14/12 13:49	PER	7440-28-0	
Vanadium	6.41	mg/kg	0.20	6020	05/14/12 13:49	PER	7440-62-2	
Zinc	14.2	mg/kg	1.0	6020	05/14/12 13:49	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/10/12 12:58	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/10/12 12:58	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/10/12 12:58	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/10/12 12:58	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/10/12 12:58	JANB	12672-29-6	
PCB-1254	30	ug/kg	3	8082A	05/10/12 12:58	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/10/12 12:58	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	208-96-8	
Acetophenone	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.17 (continued)

Sample Tag: SB-A5.2-NK111_7.5-8.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	120-12-7	
Atrazine	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	500	8270C	05/08/12 21:08	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	205-99-2	I
Benzo(ghi)perylene	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	191-24-2	I
Benzo(k)fluoranthene	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	207-08-9	I
Butyl benzyl phthalate	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	105-60-2	
Carbazole	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	108-60-1	
Chrysene	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	120-83-2	
2,4-Dimethylphenol	400	ug/kg	300	8270C	05/08/12 21:08	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	500	8270C	05/08/12 21:08	PL	53-70-3	IX
Dibenzofuran	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	500	8270C	05/08/12 21:08	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	500	8270C	05/08/12 21:08	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	206-44-0	
Fluorene	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	193-39-5	I
Isophorone	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	500	8270C	05/08/12 21:08	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	88-74-4	

X-Elevated reporting limit due to matrix interference

I-Matrix interference with internal standard



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.17 (continued)

Sample Tag: SB-A5.2-NK111_7.5-8.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	86-30-6	
Naphthalene	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	500	8270C	05/08/12 21:08	PL	117-84-0	IX
Pentachlorophenol	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	87-86-5	
Phenanthrene	300	ug/kg	300	8270C	05/08/12 21:08	PL	85-01-8	
Phenol	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	108-95-2	
Pyrene	400	ug/kg	300	8270C	05/08/12 21:08	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	300	8270C	05/08/12 21:08	PL	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	98-86-2	X
Anthracene	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	120-12-7	X
Atrazine	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	05/09/12 21:56	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	105-60-2	X
Carbazole	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	108-60-1	X
Chrysene	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	606-20-2	X

I-Matrix interference with internal standard X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.17 (continued)

Sample Tag: SB-A5.2-NK111_7.5-8.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
3,3'-Dichlorobenzidine	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	05/09/12 21:56	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	05/09/12 21:56	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	05/09/12 21:56	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	206-44-0	X
Fluorene	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	193-39-5	X
Isophorone	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	05/09/12 21:56	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	05/09/12 21:56	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	85-01-8	X
Phenol	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	108-95-2	X
Pyrene	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	900	8270C	05/09/12 21:56	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.18
Sample Tag: SB-A5.2-NK111_12-13
Collected Date/Time: 05/03/2012 14:35
Matrix: Soil
COC Reference: 67626

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:03	EMR		
Extraction, PCB	Completed			3550B	05/09/12 13:15	CCM		
Mercury Digestion	Completed			7471A	05/09/12 13:25	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:30	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/07/12 16:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/14/12 13:52	PER	7440-36-0	
Arsenic	0.49	mg/kg	0.10	6020	05/14/12 13:52	PER	7440-38-2	
Barium	17.1	mg/kg	1.0	6020	05/14/12 13:52	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/14/12 13:52	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	05/14/12 13:52	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 13:52	PER	7440-43-9	
Chromium	3.60	mg/kg	0.21	6020	05/14/12 13:52	PER	7440-47-3	
Cobalt	1.93	mg/kg	0.21	6020	05/14/12 13:52	PER	7440-48-4	
Copper	4.81	mg/kg	0.21	6020	05/14/12 13:52	PER	7440-50-8	
Lead	2.95	mg/kg	0.21	6020	05/14/12 13:52	PER	7439-92-1	
Manganese	176	mg/kg	0.21	6020	05/14/12 13:52	PER	7439-96-5	
Mercury	0.0113	mg/kg	0.0056	7471A	05/09/12 16:07	JRT	7439-97-6	
Nickel	5.83	mg/kg	0.21	6020	05/14/12 13:52	PER	7440-02-0	
Selenium	0.31	mg/kg	0.21	6020	05/14/12 13:52	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 13:52	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/14/12 13:52	PER	7440-28-0	
Vanadium	5.85	mg/kg	0.21	6020	05/14/12 13:52	PER	7440-62-2	
Zinc	10.4	mg/kg	1.0	6020	05/14/12 13:52	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/10/12 13:46	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/10/12 13:46	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/10/12 13:46	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/10/12 13:46	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/10/12 13:46	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/10/12 13:46	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/10/12 13:46	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.18 (continued)

Sample Tag: SB-A5.2-NK111_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 19:40	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/08/12 19:40	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 19:40	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/08/12 19:40	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/08/12 19:40	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.18 (continued)

Sample Tag: SB-A5.2-NK111_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 19:40	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 19:40	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.19
Sample Tag: SB-A5.2-NK111_15-16
Collected Date/Time: 05/03/2012 14:42
Matrix: Soil
COC Reference: 67626

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:03	EMR		
Extraction, PCB	Completed			3550B	05/09/12 13:15	CCM		
Mercury Digestion	Completed			7471A	05/09/12 13:25	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:30	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/07/12 16:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/14/12 13:54	PER	7440-36-0	
Arsenic	0.25	mg/kg	0.10	6020	05/14/12 13:54	PER	7440-38-2	
Barium	4.82	mg/kg	1.0	6020	05/14/12 13:54	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/14/12 13:54	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/14/12 13:54	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 13:54	PER	7440-43-9	
Chromium	3.03	mg/kg	0.20	6020	05/14/12 13:54	PER	7440-47-3	
Cobalt	0.48	mg/kg	0.20	6020	05/14/12 13:54	PER	7440-48-4	
Copper	2.52	mg/kg	0.20	6020	05/14/12 13:54	PER	7440-50-8	
Lead	1.26	mg/kg	0.20	6020	05/14/12 13:54	PER	7439-92-1	
Manganese	72.1	mg/kg	0.20	6020	05/14/12 13:54	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0054	7471A	05/09/12 16:09	JRT	7439-97-6	
Nickel	2.55	mg/kg	0.20	6020	05/14/12 13:54	PER	7440-02-0	
Selenium	0.21	mg/kg	0.20	6020	05/14/12 13:54	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 13:54	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/14/12 13:54	PER	7440-28-0	
Vanadium	1.81	mg/kg	0.20	6020	05/14/12 13:54	PER	7440-62-2	
Zinc	3.84	mg/kg	1.0	6020	05/14/12 13:54	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/10/12 13:56	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/10/12 13:56	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/10/12 13:56	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/10/12 13:56	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/10/12 13:56	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/10/12 13:56	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/10/12 13:56	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.19 (continued)

Sample Tag: SB-A5.2-NK111_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 20:09	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/08/12 20:09	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 20:09	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/08/12 20:09	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/08/12 20:09	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.19 (continued)

Sample Tag: SB-A5.2-NK111_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 20:09	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 20:09	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.20
Sample Tag: SB-A5.2-NK111_20-21
Collected Date/Time: 05/03/2012 14:50
Matrix: Soil
COC Reference: 67626

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/04/12 21:03	EMR		
Extraction, PCB	Completed			3550B	05/09/12 13:15	CCM		
Mercury Digestion	Completed			7471A	05/09/12 13:25	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:30	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/07/12 16:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/14/12 13:56	PER	7440-36-0	
Arsenic	1.22	mg/kg	0.10	6020	05/14/12 13:56	PER	7440-38-2	
Barium	13.9	mg/kg	1.0	6020	05/14/12 13:56	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/14/12 13:56	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/14/12 13:56	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 13:56	PER	7440-43-9	
Chromium	3.68	mg/kg	0.20	6020	05/14/12 13:56	PER	7440-47-3	
Cobalt	2.18	mg/kg	0.20	6020	05/14/12 13:56	PER	7440-48-4	
Copper	5.65	mg/kg	0.20	6020	05/14/12 13:56	PER	7440-50-8	
Lead	3.88	mg/kg	0.20	6020	05/14/12 13:56	PER	7439-92-1	
Manganese	182	mg/kg	0.20	6020	05/14/12 13:56	PER	7439-96-5	
Mercury	0.0114	mg/kg	0.0055	7471A	05/09/12 16:11	JRT	7439-97-6	
Nickel	6.99	mg/kg	0.20	6020	05/14/12 13:56	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/14/12 13:56	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 13:56	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/14/12 13:56	PER	7440-28-0	
Vanadium	5.71	mg/kg	0.20	6020	05/14/12 13:56	PER	7440-62-2	
Zinc	12.9	mg/kg	1.0	6020	05/14/12 13:56	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/10/12 14:07	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/10/12 14:07	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/10/12 14:07	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/10/12 14:07	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/10/12 14:07	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/10/12 14:07	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/10/12 14:07	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.20 (continued)

Sample Tag: SB-A5.2-NK111_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 20:38	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/08/12 20:38	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 20:38	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/08/12 20:38	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/08/12 20:38	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.20 (continued)

Sample Tag: SB-A5.2-NK111_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/08/12 20:38	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/08/12 20:38	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.21
Sample Tag: SB-A5.2-NK111_23-24
Collected Date/Time: 05/03/2012 16:22
Matrix: Soil
COC Reference: 67626

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:33	EMR		
Extraction, PCB	Completed			3550B	05/09/12 13:15	CCM		
Mercury Digestion	Completed			7471A	05/09/12 13:25	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:30	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/07/12 16:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/14/12 13:59	PER	7440-36-0	
Arsenic	0.83	mg/kg	0.10	6020	05/14/12 13:59	PER	7440-38-2	
Barium	10.1	mg/kg	1.0	6020	05/14/12 13:59	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/14/12 13:59	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/14/12 13:59	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 13:59	PER	7440-43-9	
Chromium	7.81	mg/kg	0.21	6020	05/14/12 13:59	PER	7440-47-3	
Cobalt	1.63	mg/kg	0.21	6020	05/14/12 13:59	PER	7440-48-4	
Copper	5.00	mg/kg	0.21	6020	05/14/12 13:59	PER	7440-50-8	
Lead	2.33	mg/kg	0.21	6020	05/14/12 13:59	PER	7439-92-1	
Manganese	131	mg/kg	0.21	6020	05/14/12 13:59	PER	7439-96-5	
Mercury	0.0082	mg/kg	0.0056	7471A	05/09/12 16:13	JRT	7439-97-6	
Nickel	6.07	mg/kg	0.21	6020	05/14/12 13:59	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/14/12 13:59	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 13:59	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/14/12 13:59	PER	7440-28-0	
Vanadium	4.23	mg/kg	0.21	6020	05/14/12 13:59	PER	7440-62-2	
Zinc	17.3	mg/kg	1.0	6020	05/14/12 13:59	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/10/12 14:17	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/10/12 14:17	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/10/12 14:17	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/10/12 14:17	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/10/12 14:17	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/10/12 14:17	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/10/12 14:17	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.21 (continued)

Sample Tag: SB-A5.2-NK111_23-24

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 13:54	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/10/12 13:54	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 13:54	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/10/12 13:54	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/10/12 13:54	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.21 (continued)

Sample Tag: SB-A5.2-NK111_23-24

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 13:54	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 13:54	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.22
Sample Tag: SB-A5.2-NK111_25-26
Collected Date/Time: 05/03/2012 16:15
Matrix: Soil
COC Reference: 67626

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:33	EMR		
Extraction, PCB	Completed			3550B	05/09/12 13:15	CCM		
Mercury Digestion	Completed			7471A	05/09/12 13:25	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:30	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/07/12 16:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/14/12 14:01	PER	7440-36-0	
Arsenic	1.49	mg/kg	0.10	6020	05/14/12 14:01	PER	7440-38-2	
Barium	25.7	mg/kg	1.0	6020	05/14/12 14:01	PER	7440-39-3	
Beryllium	0.23	mg/kg	0.20	6020	05/14/12 14:01	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/14/12 14:01	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 14:01	PER	7440-43-9	
Chromium	5.60	mg/kg	0.20	6020	05/14/12 14:01	PER	7440-47-3	
Cobalt	3.39	mg/kg	0.20	6020	05/14/12 14:01	PER	7440-48-4	
Copper	9.07	mg/kg	0.20	6020	05/14/12 14:01	PER	7440-50-8	
Lead	4.80	mg/kg	0.20	6020	05/14/12 14:01	PER	7439-92-1	
Manganese	182	mg/kg	0.20	6020	05/14/12 14:01	PER	7439-96-5	
Mercury	0.0112	mg/kg	0.0055	7471A	05/09/12 16:16	JRT	7439-97-6	
Nickel	8.94	mg/kg	0.20	6020	05/14/12 14:01	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/14/12 14:01	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 14:01	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/14/12 14:01	PER	7440-28-0	
Vanadium	11.5	mg/kg	0.20	6020	05/14/12 14:01	PER	7440-62-2	
Zinc	13.7	mg/kg	1.0	6020	05/14/12 14:01	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/10/12 14:28	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/10/12 14:28	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/10/12 14:28	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/10/12 14:28	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/10/12 14:28	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/10/12 14:28	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/10/12 14:28	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.22 (continued)

Sample Tag: SB-A5.2-NK111_25-26

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 14:23	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/10/12 14:23	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 14:23	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/10/12 14:23	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/10/12 14:23	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.22 (continued)

Sample Tag: SB-A5.2-NK111_25-26

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 14:23	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 14:23	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.23
Sample Tag: SB-A5.2-NG115_1-2
Collected Date/Time: 05/03/2012 16:50
Matrix: Soil
COC Reference: 67626

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:33	EMR		
Extraction, PCB	Completed			3550B	05/09/12 13:15	CCM		
Mercury Digestion	Completed			7471A	05/09/12 13:25	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:30	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/07/12 16:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/14/12 14:03	PER	7440-36-0	
Arsenic	0.54	mg/kg	0.10	6020	05/14/12 14:03	PER	7440-38-2	
Barium	5.87	mg/kg	1.0	6020	05/14/12 14:03	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/14/12 14:03	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/14/12 14:03	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 14:03	PER	7440-43-9	
Chromium	1.23	mg/kg	0.20	6020	05/14/12 14:03	PER	7440-47-3	
Cobalt	14.7	mg/kg	0.20	6020	05/14/12 14:03	PER	7440-48-4	
Copper	2.40	mg/kg	0.20	6020	05/14/12 14:03	PER	7440-50-8	
Lead	3.49	mg/kg	0.20	6020	05/14/12 14:03	PER	7439-92-1	
Manganese	72.7	mg/kg	0.20	6020	05/14/12 14:03	PER	7439-96-5	
Mercury	0.0132	mg/kg	0.0057	7471A	05/09/12 16:18	JRT	7439-97-6	
Nickel	3.25	mg/kg	0.20	6020	05/14/12 14:03	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/14/12 14:03	PER	7782-49-2	
Silver	2.32	mg/kg	0.10	6020	05/14/12 14:03	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/14/12 14:03	PER	7440-28-0	
Vanadium	1.87	mg/kg	0.20	6020	05/14/12 14:03	PER	7440-62-2	
Zinc	8.26	mg/kg	1.0	6020	05/14/12 14:03	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/10/12 14:56	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/10/12 14:56	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/10/12 14:56	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/10/12 14:56	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/10/12 14:56	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/10/12 14:56	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/10/12 14:56	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.23 (continued)

Sample Tag: SB-A5.2-NG115_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	80	ug/kg	40	8270C	05/10/12 23:09	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 23:09	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	100-52-7	
Benzo(a)anthracene	910	ug/kg	40	8270C	05/10/12 23:09	PL	56-55-3	
Benzo(a)pyrene	930	ug/kg	40	8270C	05/10/12 23:09	PL	50-32-8	I
Benzo(b)fluoranthene	2,430	ug/kg	40	8270C	05/10/12 23:09	PL	205-99-2	pl
Benzo(ghi)perylene	540	ug/kg	40	8270C	05/10/12 23:09	PL	191-24-2	I
Benzo(k)fluoranthene	2,460	ug/kg	40	8270C	05/10/12 23:09	PL	207-08-9	pl
Butyl benzyl phthalate	40	ug/kg	40	8270C	05/10/12 23:09	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	105-60-2	
Carbazole	40	ug/kg	40	8270C	05/10/12 23:09	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	108-60-1	
Chrysene	1,150	ug/kg	40	8270C	05/10/12 23:09	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	534-52-1	
Dibenzo(ah)anthracene	190	ug/kg	80	8270C	05/10/12 23:09	PL	53-70-3	I
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 23:09	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/10/12 23:09	PL	117-81-7	
Fluoranthene	1,850	ug/kg	40	8270C	05/10/12 23:09	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	540	ug/kg	40	8270C	05/10/12 23:09	PL	193-39-5	I
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/10/12 23:09	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	88-74-4	

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.23 (continued)

Sample Tag: SB-A5.2-NG115_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 23:09	PL	117-84-0	I
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	87-86-5	
Phenanthrene	620	ug/kg	40	8270C	05/10/12 23:09	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	108-95-2	
Pyrene	1,750	ug/kg	40	8270C	05/10/12 23:09	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 23:09	PL	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	98-86-2	
Anthracene	110	ug/kg	40	8270C	05/11/12 22:09	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/11/12 22:09	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	100-52-7	
Benzo(a)anthracene	1,200	ug/kg	40	8270C	05/11/12 22:09	PL	56-55-3	
Benzo(a)pyrene	1,170	ug/kg	40	8270C	05/11/12 22:09	PL	50-32-8	
Benzo(b)fluoranthene	3,100	ug/kg	40	8270C	05/11/12 22:09	PL	205-99-2	p
Benzo(ghi)perylene	350	ug/kg	40	8270C	05/11/12 22:09	PL	191-24-2	
Benzo(k)fluoranthene	3,170	ug/kg	40	8270C	05/11/12 22:09	PL	207-08-9	p
Butyl benzyl phthalate	40	ug/kg	40	8270C	05/11/12 22:09	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	105-60-2	
Carbazole	60	ug/kg	40	8270C	05/11/12 22:09	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	108-60-1	
Chrysene	1,540	ug/kg	40	8270C	05/11/12 22:09	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	121-14-2	

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.23 (continued)

Sample Tag: SB-A5.2-NG115_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	534-52-1	
Dibenzo(ah)anthracene	120	ug/kg	80	8270C	05/11/12 22:09	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/11/12 22:09	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/11/12 22:09	PL	117-81-7	
Fluoranthene	2,540	ug/kg	40	8270C	05/11/12 22:09	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	370	ug/kg	40	8270C	05/11/12 22:09	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/11/12 22:09	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/11/12 22:09	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	87-86-5	
Phenanthrene	870	ug/kg	40	8270C	05/11/12 22:09	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	108-95-2	
Pyrene	2,330	ug/kg	40	8270C	05/11/12 22:09	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/11/12 22:09	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.24
Sample Tag: SB-A5.2-NG115_6-7
Collected Date/Time: 05/03/2012 17:30
Matrix: Soil
COC Reference: 67626

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:33	EMR		
Extraction, PCB	Completed			3550B	05/09/12 13:15	CCM		
Mercury Digestion	Completed			7471A	05/09/12 13:25	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:30	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/07/12 16:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/14/12 14:06	PER	7440-36-0	
Arsenic	0.89	mg/kg	0.10	6020	05/14/12 14:06	PER	7440-38-2	
Barium	41.6	mg/kg	1.0	6020	05/14/12 14:06	PER	7440-39-3	
Beryllium	0.24	mg/kg	0.21	6020	05/14/12 14:06	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	05/14/12 14:06	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 14:06	PER	7440-43-9	
Chromium	5.39	mg/kg	0.21	6020	05/14/12 14:06	PER	7440-47-3	
Cobalt	3.97	mg/kg	0.21	6020	05/14/12 14:06	PER	7440-48-4	
Copper	4.83	mg/kg	0.21	6020	05/14/12 14:06	PER	7440-50-8	
Lead	4.12	mg/kg	0.21	6020	05/14/12 14:06	PER	7439-92-1	
Manganese	417	mg/kg	0.21	6020	05/14/12 14:06	PER	7439-96-5	
Mercury	0.0206	mg/kg	0.0058	7471A	05/09/12 16:20	JRT	7439-97-6	
Nickel	10.0	mg/kg	0.21	6020	05/14/12 14:06	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/14/12 14:06	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 14:06	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/14/12 14:06	PER	7440-28-0	
Vanadium	7.58	mg/kg	0.21	6020	05/14/12 14:06	PER	7440-62-2	
Zinc	12.7	mg/kg	1.0	6020	05/14/12 14:06	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/10/12 14:39	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/10/12 14:39	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/10/12 14:39	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/10/12 14:39	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/10/12 14:39	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/10/12 14:39	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/10/12 14:39	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.24 (continued)

Sample Tag: SB-A5.2-NG115_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 14:52	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/10/12 14:52	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 14:52	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/10/12 14:52	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/10/12 14:52	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.24 (continued)

Sample Tag: SB-A5.2-NG115_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 14:52	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 14:52	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.25
Sample Tag: SB-A5.2-DUP08
Collected Date/Time: 05/03/2012 00:01
Matrix: Soil
COC Reference: 67626

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:33	EMR		
Extraction, PCB	Completed			3550B	05/09/12 13:15	CCM		
Mercury Digestion	Completed			7471A	05/09/12 13:25	JRH		
Metal Digestion	Completed			3050B	05/11/12 14:30	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/07/12 16:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/14/12 14:08	PER	7440-36-0	
Arsenic	1.91	mg/kg	0.10	6020	05/14/12 14:08	PER	7440-38-2	
Barium	34.9	mg/kg	1.0	6020	05/14/12 14:08	PER	7440-39-3	
Beryllium	0.24	mg/kg	0.21	6020	05/14/12 14:08	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	05/14/12 14:08	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 14:08	PER	7440-43-9	
Chromium	6.40	mg/kg	0.21	6020	05/14/12 14:08	PER	7440-47-3	
Cobalt	3.24	mg/kg	0.21	6020	05/14/12 14:08	PER	7440-48-4	
Copper	10.3	mg/kg	0.21	6020	05/14/12 14:08	PER	7440-50-8	
Lead	16.8	mg/kg	0.21	6020	05/14/12 14:08	PER	7439-92-1	
Manganese	206	mg/kg	0.21	6020	05/14/12 14:08	PER	7439-96-5	
Mercury	0.0140	mg/kg	0.0057	7471A	05/09/12 16:22	JRT	7439-97-6	
Nickel	8.41	mg/kg	0.21	6020	05/14/12 14:08	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/14/12 14:08	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 14:08	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/14/12 14:08	PER	7440-28-0	
Vanadium	8.43	mg/kg	0.21	6020	05/14/12 14:08	PER	7440-62-2	
Zinc	19.8	mg/kg	1.0	6020	05/14/12 14:08	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/10/12 13:08	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/10/12 13:08	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/10/12 13:08	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/10/12 13:08	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/10/12 13:08	JANB	12672-29-6	
PCB-1254	10	ug/kg	3	8082A	05/10/12 13:08	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/10/12 13:08	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	208-96-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.25 (continued)

Sample Tag: SB-A5.2-DUP08

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	98-86-2	X
Anthracene	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	120-12-7	X
Atrazine	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	5,000	8270C	05/10/12 22:40	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	100-52-7	X
Benzo(a)anthracene	3,000	ug/kg	2,000	8270C	05/10/12 22:40	PL	56-55-3	X
Benzo(a)pyrene	2,000	ug/kg	2,000	8270C	05/10/12 22:40	PL	50-32-8	X
Benzo(b)fluoranthene	5,000	ug/kg	2,000	8270C	05/10/12 22:40	PL	205-99-2	Xp
Benzo(ghi)perylene	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	191-24-2	X
Benzo(k)fluoranthene	5,000	ug/kg	2,000	8270C	05/10/12 22:40	PL	207-08-9	Xp
Butyl benzyl phthalate	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	105-60-2	X
Carbazole	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	108-60-1	X
Chrysene	3,000	ug/kg	2,000	8270C	05/10/12 22:40	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	5,000	8270C	05/10/12 22:40	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	5,000	8270C	05/10/12 22:40	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	5,000	8270C	05/10/12 22:40	PL	117-81-7	X
Fluoranthene	5,000	ug/kg	2,000	8270C	05/10/12 22:40	PL	206-44-0	X
Fluorene	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	193-39-5	X
Isophorone	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	5,000	8270C	05/10/12 22:40	PL	3/4-Cresol	X

X-Elevated reporting limit due to matrix interference

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52404.25 (continued)

Sample Tag: SB-A5.2-DUP08

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	5,000	8270C	05/10/12 22:40	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	87-86-5	X
Phenanthrene	2,000	ug/kg	2,000	8270C	05/10/12 22:40	PL	85-01-8	X
Phenol	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	108-95-2	X
Pyrene	5,000	ug/kg	2,000	8270C	05/10/12 22:40	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	2,000	8270C	05/10/12 22:40	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



67626

INVOICE TO

CONTACT NAME		Dave Favero		☐ SAME	
COMPANY		RACER TRUST			
ADDRESS		2930 Ecorse Road			
CITY		Ypsilanti		STATE	MI
				ZIP CODE	48198
PHONE NO.		E-MAIL ADDRESS			
313-486-9208		dfavero@racertrust.org			

Special Instructions

RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>Andrew Ball</i>			DATE <i>04/MAY/12</i>	TIME <i>094</i>
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL <i>4.3</i>	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		

Rev. 1.15.12



Analytical Laboratory Report

Revised Report

Report ID: S52424.01(02)

Generated on 05/21/2012

Replaces report S52424.01(01) generated on 05/16/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52424.01-S52424.40

Project: Lansing Plant #2 Project# B0064479.2012

Collected Date: 05/04/2012

Submitted Date/Time: 05/04/2012 16:20

Sampled by: Meryl Hicks

P.O. #: PO125047

PCB reporting limit lowered

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Revised Report

Sample Summary (40 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52424.01	VAP-A5.1-MW162_4-4.5	Soil	05/04/2012 11:05
S52424.02	VAP-A5.1-DUP13	Soil	05/04/2012 00:01
S52424.03	VAP-A5.1-MW162_4.5-5	Groundwater	05/04/2012 11:20
S52424.04	VAP-A5.1-MW162_12-13	Soil	05/04/2012 12:30
S52424.05	VAP-A5.1-MW162_12-13 MS	Soil	05/04/2012 12:30
S52424.06	VAP-A5.1-MW162_12-13 MSD	Soil	05/04/2012 12:30
S52424.07	VAP-A5.1-Dup14	Soil	05/04/2012 00:01
S52424.08	VAP-A5.1-MW162_20-22	Groundwater	05/04/2012 13:30
S52424.09	VAP-A5.1-MW162_26-28	Groundwater	05/04/2012 14:40
S52424.10	Trip Blank	Groundwater	05/04/2012 00:01
S52424.11	SB-A5.2-NG105_13-14	Soil	05/04/2012 11:20
S52424.12	SB-A5.2-NZ144_1-2	Soil	05/04/2012 12:30
S52424.13	SB-A5.2-NZ144_6-7	Soil	05/04/2012 12:55
S52424.14	SB-A5.2-NZ144_12-13	Soil	05/04/2012 13:00
S52424.15	SB-A5.2-NZ144_12-13 MS	Soil	05/04/2012 13:00
S52424.16	SB-A5.2-NZ144_12-13 MSD	Soil	05/04/2012 13:00
S52424.17	SB-A5.2-OG144_0-1	Soil	05/04/2012 14:12
S52424.18	SB-A5.2-OG144_7-8	Soil	05/04/2012 14:27
S52424.19	SB-A5.2-OG144_5-9	Groundwater	05/04/2012 14:50
S52424.20	SB-A5.2-OG144_12-13	Soil	05/04/2012 15:21
S52424.21	SB-A5.2-OG144_21-22	Soil	05/04/2012 15:40
S52424.22	SB-A5.2-DUP12	Soil	05/04/2012 00:01
S52424.23	SB-A5.2-DUP11	Soil	05/04/2012 00:01
S52424.24	SB-A5.2-DUP10	Soil	05/04/2012 00:01
S52424.25	SB-A5.2-NG115_11-12	Soil	05/04/2012 08:32
S52424.26	SB-A5.2-NG115_15-16	Soil	05/04/2012 08:45
S52424.27	SB-A5.2-NG115_20-21	Soil	05/04/2012 08:55
S52424.28	SB-A5.2-NG115_24-25	Soil	05/04/2012 09:03
S52424.29	SB-A5.2-NB110_1-2	Soil	05/04/2012 09:22
S52424.30	SB-A5.2-NB110_6-7	Soil	05/04/2012 09:30
S52424.31	SB-A5.2-NB110_10-11	Soil	05/04/2012 09:40
S52424.32	SB-A5.2-NB110_15-16	Soil	05/04/2012 09:50
S52424.33	SB-A5.2-NB110_24-25	Soil	05/04/2012 10:05
S52424.34	SB-A5.2-NB110_19-20	Soil	05/04/2012 09:57
S52424.35	SB-A5.2-NG105_2-3	Soil	05/04/2012 10:48
S52424.36	SB-A5.2-NG105_7-8	Soil	05/04/2012 10:59
S52424.37	SB-A5.2-NG105_7-8 MS	Soil	05/04/2012 10:59
S52424.38	SB-A5.2-NG105_7-8 MSD	Soil	05/04/2012 10:59
S52424.39	SB-A5.2-NZ144_18-19	Soil	05/04/2012 13:28
S52424.40	SB-A5.2-NZ144_24-25	Soil	05/04/2012 13:35



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Revised Report

Lab Sample ID: S52424.01

Sample Tag: VAP-A5.1-MW162_4-4.5

Collected Date/Time: 05/04/2012 11:05

Matrix: Soil

COC Reference: 67624

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:33	EMR		
Mercury Digestion	Completed			7471A	05/14/12 10:35	JRH		
Metal Digestion	Completed			3050B	05/14/12 11:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/14/12 15:09	PER	7440-36-0	
Arsenic	0.88	mg/kg	0.10	6020	05/14/12 15:09	PER	7440-38-2	
Barium	35.5	mg/kg	1.0	6020	05/14/12 15:09	PER	7440-39-3	
Beryllium	0.23	mg/kg	0.20	6020	05/14/12 15:09	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/14/12 15:09	PER	7440-42-8	
Cadmium	0.22	mg/kg	0.10	6020	05/14/12 15:09	PER	7440-43-9	
Chromium	2.60	mg/kg	0.20	6020	05/14/12 15:09	PER	7440-47-3	
Cobalt	2.06	mg/kg	0.20	6020	05/14/12 15:09	PER	7440-48-4	
Copper	8.24	mg/kg	0.20	6020	05/14/12 15:09	PER	7440-50-8	
Lead	10.3	mg/kg	0.20	6020	05/14/12 15:09	PER	7439-92-1	
Manganese	189	mg/kg	0.20	6020	05/14/12 15:09	PER	7439-96-5	
Mercury	0.0289	mg/kg	0.0057	7471A	05/14/12 14:56	JRT	7439-97-6	
Nickel	3.87	mg/kg	0.20	6020	05/14/12 15:09	PER	7440-02-0	
Selenium	0.29	mg/kg	0.20	6020	05/14/12 15:09	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 15:09	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/14/12 15:09	PER	7440-28-0	
Vanadium	6.92	mg/kg	0.20	6020	05/14/12 15:09	PER	7440-62-2	
Zinc	16.5	mg/kg	1.0	6020	05/14/12 15:09	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 15:21	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	207-08-9	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.01 (continued)

Sample Tag: VAP-A5.1-MW162_4-4.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/10/12 15:21	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 15:21	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	100	ug/kg	80	8270C	05/10/12 15:21	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/10/12 15:21	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 15:21	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	129-00-0	



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Lab Sample ID: S52424.01 (continued)

Sample Tag: VAP-A5.1-MW162_4-4.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 15:21	PL	88-06-2	



Analytical Laboratory Report

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Lab Sample ID: S52424.02
Sample Tag: VAP-A5.1-DUP13
Collected Date/Time: 05/04/2012 00:01
Matrix: Soil
COC Reference: 67624

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:33	EMR		
Mercury Digestion	Completed			7471A	05/14/12 10:35	JRH		
Metal Digestion	Completed			3050B	05/14/12 11:00	PER		

Inorganics

Total Solids	84	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/14/12 15:13	PER	7440-36-0	
Arsenic	1.56	mg/kg	0.10	6020	05/14/12 15:13	PER	7440-38-2	
Barium	48.9	mg/kg	1.0	6020	05/14/12 15:13	PER	7440-39-3	
Beryllium	0.22	mg/kg	0.21	6020	05/14/12 15:13	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/14/12 15:13	PER	7440-42-8	
Cadmium	0.24	mg/kg	0.10	6020	05/14/12 15:13	PER	7440-43-9	
Chromium	2.75	mg/kg	0.21	6020	05/14/12 15:13	PER	7440-47-3	
Cobalt	2.37	mg/kg	0.21	6020	05/14/12 15:13	PER	7440-48-4	
Copper	8.05	mg/kg	0.21	6020	05/14/12 15:13	PER	7440-50-8	
Lead	30.9	mg/kg	0.21	6020	05/14/12 15:13	PER	7439-92-1	
Manganese	205	mg/kg	0.21	6020	05/14/12 15:13	PER	7439-96-5	
Mercury	0.0392	mg/kg	0.0059	7471A	05/14/12 14:58	JRT	7439-97-6	
Nickel	4.74	mg/kg	0.21	6020	05/14/12 15:13	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/14/12 15:13	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 15:13	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/14/12 15:13	PER	7440-28-0	
Vanadium	7.54	mg/kg	0.21	6020	05/14/12 15:13	PER	7440-62-2	
Zinc	27.6	mg/kg	1.0	6020	05/14/12 15:13	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 15:51	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	207-08-9	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.02 (continued)

Sample Tag: VAP-A5.1-DUP13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/10/12 15:51	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 15:51	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/10/12 15:51	PL	117-81-7	
Fluoranthene	50	ug/kg	40	8270C	05/10/12 15:51	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/10/12 15:51	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 15:51	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	87-86-5	
Phenanthrene	50	ug/kg	40	8270C	05/10/12 15:51	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	108-95-2	
Pyrene	50	ug/kg	40	8270C	05/10/12 15:51	PL	129-00-0	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.02 (continued)

Sample Tag: VAP-A5.1-DUP13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 15:51	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.03
Sample Tag: VAP-A5.1-MW162_4.5-5
Collected Date/Time: 05/04/2012 11:20
Matrix: Groundwater
COC Reference: 67624

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	5.5	IR
3	40ml Glass	HCL	Yes	5.5	IR
1	125ml Plastic	HNO3	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/07/12 23:32	EMR		
Mercury Digestion	Completed			7471A	05/07/12 10:05	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:20	SLS	7440-36-0	
Arsenic, Dissolved	0.011	mg/L	0.002	6020	05/10/12 15:20	SLS	7440-38-2	
Barium, Dissolved	0.337	mg/L	0.010	6020	05/10/12 15:20	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 15:20	SLS	7440-41-7	
Boron, Dissolved	0.16	mg/L	0.04	6020	05/10/12 15:20	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 15:20	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:20	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:20	SLS	7440-48-4	
Copper, Dissolved	0.003	mg/L	0.002	6020	05/10/12 15:20	SLS	7440-50-8	
Lead, Dissolved	0.010	mg/L	0.002	6020	05/10/12 15:20	SLS	7439-92-1	
Manganese, Dissolved	1.09	mg/L	0.010	6020	05/10/12 15:20	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/08/12 12:14	JRT	7439-97-6	
Nickel, Dissolved	0.031	mg/L	0.010	6020	05/10/12 15:20	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:20	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 15:20	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:20	SLS	7440-28-0	
Vanadium, Dissolved	0.002	mg/L	0.002	6020	05/10/12 15:20	SLS	7440-62-2	
Zinc, Dissolved	0.017	mg/L	0.010	6020	05/10/12 15:20	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/08/12 17:57	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/08/12 17:57	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	205-99-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.03 (continued)

Sample Tag: VAP-A5.1-MW162_4.5-5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/09/12 16:05	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/09/12 16:05	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	05/09/12 16:05	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	4	ug/L	2	8270C	05/09/12 16:05	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	87-86-5	
Phenanthrene	1	ug/L	1	8270C	05/09/12 16:05	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	129-00-0	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.03 (continued)

Sample Tag: VAP-A5.1-MW162_4.5-5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/09/12 16:05	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.04
Sample Tag: VAP-A5.1-MW162_12-13
Collected Date/Time: 05/04/2012 12:30
Matrix: Soil
COC Reference: 67624

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:33	EMR		
Mercury Digestion	Completed			7471A	05/14/12 10:35	JRH		
Metal Digestion	Completed			3050B	05/14/12 11:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/14/12 15:18	PER	7440-36-0	
Arsenic	1.00	mg/kg	0.10	6020	05/14/12 15:18	PER	7440-38-2	
Barium	33.8	mg/kg	1.0	6020	05/14/12 15:18	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/14/12 15:18	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/14/12 15:18	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	05/14/12 15:18	PER	7440-43-9	
Chromium	3.66	mg/kg	0.20	6020	05/14/12 15:18	PER	7440-47-3	
Cobalt	2.76	mg/kg	0.20	6020	05/14/12 15:18	PER	7440-48-4	
Copper	8.68	mg/kg	0.20	6020	05/14/12 15:18	PER	7440-50-8	
Lead	4.16	mg/kg	0.20	6020	05/14/12 15:18	PER	7439-92-1	
Manganese	234	mg/kg	0.20	6020	05/14/12 15:18	PER	7439-96-5	
Mercury	0.0104	mg/kg	0.0055	7471A	05/14/12 15:16	JRT	7439-97-6	
Nickel	8.11	mg/kg	0.20	6020	05/14/12 15:18	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/14/12 15:18	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 15:18	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/14/12 15:18	PER	7440-28-0	
Vanadium	4.90	mg/kg	0.20	6020	05/14/12 15:18	PER	7440-62-2	
Zinc	12.1	mg/kg	1.0	6020	05/14/12 15:18	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 16:20	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	207-08-9	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.04 (continued)

Sample Tag: VAP-A5.1-MW162_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/10/12 16:20	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 16:20	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/10/12 16:20	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/10/12 16:20	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 16:20	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	129-00-0	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.04 (continued)

Sample Tag: VAP-A5.1-MW162_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 16:20	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.05

Sample Tag: VAP-A5.1-MW162_12-13 MS

Collected Date/Time: 05/04/2012 12:30

Matrix: Soil

COC Reference: 67624

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:33	EMR		
Mercury Digestion	Completed			7471A	05/14/12 10:35	JRH		
Metal Digestion	Completed			3050B	05/14/12 11:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	21.9	mg/kg	0.20	6020	05/14/12 15:36	PER	7440-36-0	
Arsenic	23.1	mg/kg	0.10	6020	05/14/12 15:36	PER	7440-38-2	
Barium	55.3	mg/kg	1.0	6020	05/14/12 15:36	PER	7440-39-3	
Beryllium	20.5	mg/kg	0.20	6020	05/14/12 15:36	PER	7440-41-7	
Boron	21.1	mg/kg	4.1	6020	05/14/12 15:36	PER	7440-42-8	
Cadmium	21.5	mg/kg	0.10	6020	05/14/12 15:36	PER	7440-43-9	
Chromium	25.3	mg/kg	0.20	6020	05/14/12 15:36	PER	7440-47-3	
Cobalt	25.1	mg/kg	0.20	6020	05/14/12 15:36	PER	7440-48-4	
Copper	29.0	mg/kg	0.20	6020	05/14/12 15:36	PER	7440-50-8	
Lead	24.1	mg/kg	0.20	6020	05/14/12 15:36	PER	7439-92-1	
Manganese	256	mg/kg	0.20	6020	05/14/12 15:36	PER	7439-96-5	
Mercury	0.1300	mg/kg	0.0057	7471A	05/14/12 15:18	JRT	7439-97-6	
Nickel	29.5	mg/kg	0.20	6020	05/14/12 15:36	PER	7440-02-0	
Selenium	21.5	mg/kg	0.20	6020	05/14/12 15:36	PER	7782-49-2	
Silver	20.7	mg/kg	0.10	6020	05/14/12 15:36	PER	7440-22-4	
Thallium	20.3	mg/kg	0.20	6020	05/14/12 15:36	PER	7440-28-0	
Vanadium	27.6	mg/kg	0.20	6020	05/14/12 15:36	PER	7440-62-2	
Zinc	31.5	mg/kg	1.0	6020	05/14/12 15:36	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,260	ug/kg	40	8270C	05/10/12 16:49	PL	83-32-9	1
Acenaphthylene	1,290	ug/kg	40	8270C	05/10/12 16:49	PL	208-96-8	1
Acetophenone	1,350	ug/kg	40	8270C	05/10/12 16:49	PL	98-86-2	1
Anthracene	1,360	ug/kg	40	8270C	05/10/12 16:49	PL	120-12-7	1
Atrazine	1,620	ug/kg	40	8270C	05/10/12 16:49	PL	1912-24-9	1
1,1'-Biphenyl	1,240	ug/kg	40	8270C	05/10/12 16:49	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,340	ug/kg	40	8270C	05/10/12 16:49	PL	101-55-3	1
di-n-Butyl phthalate	1,520	ug/kg	70	8270C	05/10/12 16:49	PL	84-74-2	1
Benzaldehyde	1,030	ug/kg	40	8270C	05/10/12 16:49	PL	100-52-7	1
Benzo(a)anthracene	1,340	ug/kg	40	8270C	05/10/12 16:49	PL	56-55-3	1
Benzo(a)pyrene	1,300	ug/kg	40	8270C	05/10/12 16:49	PL	50-32-8	1
Benzo(b)fluoranthene	1,440	ug/kg	40	8270C	05/10/12 16:49	PL	205-99-2	1
Benzo(ghi)perylene	1,290	ug/kg	40	8270C	05/10/12 16:49	PL	191-24-2	1

1-Sample spiked at 1.87 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.05 (continued)

Sample Tag: VAP-A5.1-MW162_12-13 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	1,380	ug/kg	40	8270C	05/10/12 16:49	PL	207-08-9	1
Butyl benzyl phthalate	1,520	ug/kg	40	8270C	05/10/12 16:49	PL	85-68-7	1
2-Chloronaphthalene	1,260	ug/kg	40	8270C	05/10/12 16:49	PL	91-58-7	1
2-Chlorophenol	1,240	ug/kg	40	8270C	05/10/12 16:49	PL	95-57-8	1
4-Chloro-3-methylphenol	1,490	ug/kg	40	8270C	05/10/12 16:49	PL	59-50-7	1
4-Chloroaniline	1,290	ug/kg	40	8270C	05/10/12 16:49	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,340	ug/kg	40	8270C	05/10/12 16:49	PL	7005-72-3	1
Caprolactam	1,440	ug/kg	40	8270C	05/10/12 16:49	PL	105-60-2	1
Carbazole	1,420	ug/kg	40	8270C	05/10/12 16:49	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,310	ug/kg	40	8270C	05/10/12 16:49	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,130	ug/kg	40	8270C	05/10/12 16:49	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,030	ug/kg	40	8270C	05/10/12 16:49	PL	108-60-1	1
Chrysene	1,390	ug/kg	40	8270C	05/10/12 16:49	PL	218-01-9	1
2,4-Dichlorophenol	1,350	ug/kg	40	8270C	05/10/12 16:49	PL	120-83-2	1
2,4-Dimethylphenol	1,340	ug/kg	40	8270C	05/10/12 16:49	PL	105-67-9	1
2,4-Dinitrophenol	650	ug/kg	40	8270C	05/10/12 16:49	PL	51-28-5	1
2,4-Dinitrotoluene	1,490	ug/kg	40	8270C	05/10/12 16:49	PL	121-14-2	1
2,6-Dinitrotoluene	1,490	ug/kg	40	8270C	05/10/12 16:49	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,530	ug/kg	40	8270C	05/10/12 16:49	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,160	ug/kg	40	8270C	05/10/12 16:49	PL	534-52-1	1
Dibenzo(ah)anthracene	1,370	ug/kg	70	8270C	05/10/12 16:49	PL	53-70-3	1
Dibenzofuran	1,320	ug/kg	40	8270C	05/10/12 16:49	PL	132-64-9	1
Diethyl phthalate	1,470	ug/kg	70	8270C	05/10/12 16:49	PL	84-66-2	1
Dimethyl phthalate	1,420	ug/kg	40	8270C	05/10/12 16:49	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	1,610	ug/kg	70	8270C	05/10/12 16:49	PL	117-81-7	1
Fluoranthene	1,330	ug/kg	40	8270C	05/10/12 16:49	PL	206-44-0	1
Fluorene	1,340	ug/kg	40	8270C	05/10/12 16:49	PL	86-73-7	1
Hexachlorobenzene	1,370	ug/kg	40	8270C	05/10/12 16:49	PL	118-74-1	1
Hexachlorobutadiene	1,180	ug/kg	40	8270C	05/10/12 16:49	PL	87-68-3	1
Hexachlorocyclopentadiene	520	ug/kg	40	8270C	05/10/12 16:49	PL	77-47-4	1
Hexachloroethane	1,070	ug/kg	40	8270C	05/10/12 16:49	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,300	ug/kg	40	8270C	05/10/12 16:49	PL	193-39-5	1
Isophorone	1,320	ug/kg	40	8270C	05/10/12 16:49	PL	78-59-1	1
2-Methylnaphthalene	1,190	ug/kg	40	8270C	05/10/12 16:49	PL	91-57-6	1
2-Methylphenol	1,330	ug/kg	40	8270C	05/10/12 16:49	PL	95-48-7	1
3-, 4-Methylphenol	2,830	ug/kg	70	8270C	05/10/12 16:49	PL	3/4-Cresol	1
2-Nitroaniline	1,450	ug/kg	40	8270C	05/10/12 16:49	PL	88-74-4	1
2-Nitrophenol	1,250	ug/kg	40	8270C	05/10/12 16:49	PL	88-75-5	1
3-Nitroaniline	1,380	ug/kg	40	8270C	05/10/12 16:49	PL	99-09-2	1
4-Nitroaniline	1,620	ug/kg	40	8270C	05/10/12 16:49	PL	100-01-6	1
4-Nitrophenol	1,390	ug/kg	40	8270C	05/10/12 16:49	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,340	ug/kg	40	8270C	05/10/12 16:49	PL	621-64-7	1
N-Nitrosodiphenylamine	1,170	ug/kg	40	8270C	05/10/12 16:49	PL	86-30-6	1
Naphthalene	1,200	ug/kg	40	8270C	05/10/12 16:49	PL	91-20-3	1
Nitrobenzene	1,230	ug/kg	40	8270C	05/10/12 16:49	PL	98-95-3	1
di-n-Octyl phthalate	1,620	ug/kg	70	8270C	05/10/12 16:49	PL	117-84-0	1
Pentachlorophenol	1,060	ug/kg	40	8270C	05/10/12 16:49	PL	87-86-5	1
Phenanthrene	1,330	ug/kg	40	8270C	05/10/12 16:49	PL	85-01-8	1

1-Sample spiked at 1.87 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.05 (continued)
Sample Tag: VAP-A5.1-MW162_12-13 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	1,400	ug/kg	40	8270C	05/10/12 16:49	PL	108-95-2	1
Pyrene	1,320	ug/kg	40	8270C	05/10/12 16:49	PL	129-00-0	1
2,4,5-Trichlorophenol	1,440	ug/kg	40	8270C	05/10/12 16:49	PL	95-95-4	1
2,4,6-Trichlorophenol	1,390	ug/kg	40	8270C	05/10/12 16:49	PL	88-06-2	1

1-Sample spiked at 1.87 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.06

Sample Tag: VAP-A5.1-MW162_12-13 MSD

Collected Date/Time: 05/04/2012 12:30

Matrix: Soil

COC Reference: 67624

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:33	EMR		
Mercury Digestion	Completed			7471A	05/14/12 10:35	JRH		
Metal Digestion	Completed			3050B	05/14/12 11:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	21.8	mg/kg	0.20	6020	05/14/12 15:39	PER	7440-36-0	
Arsenic	22.8	mg/kg	0.10	6020	05/14/12 15:39	PER	7440-38-2	
Barium	55.8	mg/kg	1.0	6020	05/14/12 15:39	PER	7440-39-3	
Beryllium	19.8	mg/kg	0.20	6020	05/14/12 15:39	PER	7440-41-7	
Boron	21.4	mg/kg	4.1	6020	05/14/12 15:39	PER	7440-42-8	
Cadmium	21.5	mg/kg	0.10	6020	05/14/12 15:39	PER	7440-43-9	
Chromium	25.4	mg/kg	0.20	6020	05/14/12 15:39	PER	7440-47-3	
Cobalt	24.8	mg/kg	0.20	6020	05/14/12 15:39	PER	7440-48-4	
Copper	28.3	mg/kg	0.20	6020	05/14/12 15:39	PER	7440-50-8	
Lead	24.1	mg/kg	0.20	6020	05/14/12 15:39	PER	7439-92-1	
Manganese	259	mg/kg	0.20	6020	05/14/12 15:39	PER	7439-96-5	
Mercury	0.1276	mg/kg	0.0055	7471A	05/14/12 15:21	JRT	7439-97-6	
Nickel	29.4	mg/kg	0.20	6020	05/14/12 15:39	PER	7440-02-0	
Selenium	22.1	mg/kg	0.20	6020	05/14/12 15:39	PER	7782-49-2	
Silver	20.6	mg/kg	0.10	6020	05/14/12 15:39	PER	7440-22-4	
Thallium	20.3	mg/kg	0.20	6020	05/14/12 15:39	PER	7440-28-0	
Vanadium	27.4	mg/kg	0.20	6020	05/14/12 15:39	PER	7440-62-2	
Zinc	31.2	mg/kg	1.0	6020	05/14/12 15:39	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,230	ug/kg	40	8270C	05/10/12 17:18	PL	83-32-9	1
Acenaphthylene	1,260	ug/kg	40	8270C	05/10/12 17:18	PL	208-96-8	1
Acetophenone	1,280	ug/kg	40	8270C	05/10/12 17:18	PL	98-86-2	1
Anthracene	1,340	ug/kg	40	8270C	05/10/12 17:18	PL	120-12-7	1
Atrazine	1,570	ug/kg	40	8270C	05/10/12 17:18	PL	1912-24-9	1
1,1'-Biphenyl	1,230	ug/kg	40	8270C	05/10/12 17:18	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,330	ug/kg	40	8270C	05/10/12 17:18	PL	101-55-3	1
di-n-Butyl phthalate	1,510	ug/kg	70	8270C	05/10/12 17:18	PL	84-74-2	1
Benzaldehyde	980	ug/kg	40	8270C	05/10/12 17:18	PL	100-52-7	1
Benzo(a)anthracene	1,320	ug/kg	40	8270C	05/10/12 17:18	PL	56-55-3	1
Benzo(a)pyrene	1,330	ug/kg	40	8270C	05/10/12 17:18	PL	50-32-8	1
Benzo(b)fluoranthene	1,440	ug/kg	40	8270C	05/10/12 17:18	PL	205-99-2	1
Benzo(ghi)perylene	1,330	ug/kg	40	8270C	05/10/12 17:18	PL	191-24-2	1

1-Sample spiked at 1.83 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.06 (continued)

Sample Tag: VAP-A5.1-MW162_12-13 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	1,410	ug/kg	40	8270C	05/10/12 17:18	PL	207-08-9	1
Butyl benzyl phthalate	1,480	ug/kg	40	8270C	05/10/12 17:18	PL	85-68-7	1
2-Chloronaphthalene	1,240	ug/kg	40	8270C	05/10/12 17:18	PL	91-58-7	1
2-Chlorophenol	1,180	ug/kg	40	8270C	05/10/12 17:18	PL	95-57-8	1
4-Chloro-3-methylphenol	1,410	ug/kg	40	8270C	05/10/12 17:18	PL	59-50-7	1
4-Chloroaniline	1,220	ug/kg	40	8270C	05/10/12 17:18	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,340	ug/kg	40	8270C	05/10/12 17:18	PL	7005-72-3	1
Caprolactam	1,390	ug/kg	40	8270C	05/10/12 17:18	PL	105-60-2	1
Carbazole	1,370	ug/kg	40	8270C	05/10/12 17:18	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,240	ug/kg	40	8270C	05/10/12 17:18	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,080	ug/kg	40	8270C	05/10/12 17:18	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	980	ug/kg	40	8270C	05/10/12 17:18	PL	108-60-1	1
Chrysene	1,350	ug/kg	40	8270C	05/10/12 17:18	PL	218-01-9	1
2,4-Dichlorophenol	1,280	ug/kg	40	8270C	05/10/12 17:18	PL	120-83-2	1
2,4-Dimethylphenol	1,280	ug/kg	40	8270C	05/10/12 17:18	PL	105-67-9	1
2,4-Dinitrophenol	590	ug/kg	40	8270C	05/10/12 17:18	PL	51-28-5	1
2,4-Dinitrotoluene	1,440	ug/kg	40	8270C	05/10/12 17:18	PL	121-14-2	1
2,6-Dinitrotoluene	1,380	ug/kg	40	8270C	05/10/12 17:18	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,510	ug/kg	40	8270C	05/10/12 17:18	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,110	ug/kg	40	8270C	05/10/12 17:18	PL	534-52-1	1
Dibenzo(ah)anthracene	1,400	ug/kg	70	8270C	05/10/12 17:18	PL	53-70-3	1
Dibenzofuran	1,290	ug/kg	40	8270C	05/10/12 17:18	PL	132-64-9	1
Diethyl phthalate	1,490	ug/kg	70	8270C	05/10/12 17:18	PL	84-66-2	1
Dimethyl phthalate	1,360	ug/kg	40	8270C	05/10/12 17:18	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	1,560	ug/kg	70	8270C	05/10/12 17:18	PL	117-81-7	1
Fluoranthene	1,330	ug/kg	40	8270C	05/10/12 17:18	PL	206-44-0	1
Fluorene	1,320	ug/kg	40	8270C	05/10/12 17:18	PL	86-73-7	1
Hexachlorobenzene	1,350	ug/kg	40	8270C	05/10/12 17:18	PL	118-74-1	1
Hexachlorobutadiene	1,160	ug/kg	40	8270C	05/10/12 17:18	PL	87-68-3	1
Hexachlorocyclopentadiene	550	ug/kg	40	8270C	05/10/12 17:18	PL	77-47-4	1
Hexachloroethane	1,050	ug/kg	40	8270C	05/10/12 17:18	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,330	ug/kg	40	8270C	05/10/12 17:18	PL	193-39-5	1
Isophorone	1,240	ug/kg	40	8270C	05/10/12 17:18	PL	78-59-1	1
2-Methylnaphthalene	1,180	ug/kg	40	8270C	05/10/12 17:18	PL	91-57-6	1
2-Methylphenol	1,250	ug/kg	40	8270C	05/10/12 17:18	PL	95-48-7	1
3-, 4-Methylphenol	2,700	ug/kg	70	8270C	05/10/12 17:18	PL	3/4-Cresol	1
2-Nitroaniline	1,360	ug/kg	40	8270C	05/10/12 17:18	PL	88-74-4	1
2-Nitrophenol	1,200	ug/kg	40	8270C	05/10/12 17:18	PL	88-75-5	1
3-Nitroaniline	1,320	ug/kg	40	8270C	05/10/12 17:18	PL	99-09-2	1
4-Nitroaniline	1,540	ug/kg	40	8270C	05/10/12 17:18	PL	100-01-6	1
4-Nitrophenol	1,340	ug/kg	40	8270C	05/10/12 17:18	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,280	ug/kg	40	8270C	05/10/12 17:18	PL	621-64-7	1
N-Nitrosodiphenylamine	1,160	ug/kg	40	8270C	05/10/12 17:18	PL	86-30-6	1
Naphthalene	1,150	ug/kg	40	8270C	05/10/12 17:18	PL	91-20-3	1
Nitrobenzene	1,190	ug/kg	40	8270C	05/10/12 17:18	PL	98-95-3	1
di-n-Octyl phthalate	1,600	ug/kg	70	8270C	05/10/12 17:18	PL	117-84-0	1
Pentachlorophenol	1,000	ug/kg	40	8270C	05/10/12 17:18	PL	87-86-5	1
Phenanthrene	1,310	ug/kg	40	8270C	05/10/12 17:18	PL	85-01-8	1

1-Sample spiked at 1.83 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.06 (continued)

Sample Tag: VAP-A5.1-MW162_12-13 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	1,320	ug/kg	40	8270C	05/10/12 17:18	PL	108-95-2	1
Pyrene	1,290	ug/kg	40	8270C	05/10/12 17:18	PL	129-00-0	1
2,4,5-Trichlorophenol	1,370	ug/kg	40	8270C	05/10/12 17:18	PL	95-95-4	1
2,4,6-Trichlorophenol	1,330	ug/kg	40	8270C	05/10/12 17:18	PL	88-06-2	1

1-Sample spiked at 1.83 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.07
Sample Tag: VAP-A5.1-Dup14
Collected Date/Time: 05/04/2012 00:01
Matrix: Soil
COC Reference: 67624

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:33	EMR		
Mercury Digestion	Completed			7471A	05/14/12 10:35	JRH		
Metal Digestion	Completed			3050B	05/14/12 11:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/14/12 15:42	PER	7440-36-0	
Arsenic	0.84	mg/kg	0.10	6020	05/14/12 15:42	PER	7440-38-2	
Barium	28.3	mg/kg	1.0	6020	05/14/12 15:42	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/14/12 15:42	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/14/12 15:42	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 15:42	PER	7440-43-9	
Chromium	2.68	mg/kg	0.20	6020	05/14/12 15:42	PER	7440-47-3	
Cobalt	2.23	mg/kg	0.20	6020	05/14/12 15:42	PER	7440-48-4	
Copper	7.08	mg/kg	0.20	6020	05/14/12 15:42	PER	7440-50-8	
Lead	3.64	mg/kg	0.20	6020	05/14/12 15:42	PER	7439-92-1	
Manganese	210	mg/kg	0.20	6020	05/14/12 15:42	PER	7439-96-5	
Mercury	0.0091	mg/kg	0.0055	7471A	05/14/12 15:01	JRT	7439-97-6	
Nickel	7.28	mg/kg	0.20	6020	05/14/12 15:42	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/14/12 15:42	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 15:42	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/14/12 15:42	PER	7440-28-0	
Vanadium	4.01	mg/kg	0.20	6020	05/14/12 15:42	PER	7440-62-2	
Zinc	9.86	mg/kg	1.0	6020	05/14/12 15:42	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 17:47	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	207-08-9	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.07 (continued)

Sample Tag: VAP-A5.1-Dup14

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/10/12 17:47	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 17:47	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/10/12 17:47	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/10/12 17:47	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 17:47	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	129-00-0	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.07 (continued)

Sample Tag: VAP-A5.1-Dup14

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 17:47	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.08
Sample Tag: VAP-A5.1-MW162_20-22
Collected Date/Time: 05/04/2012 13:30
Matrix: Groundwater
COC Reference: 67624

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	5.5	IR
2	40ml Glass	HCL	Yes	5.5	IR
1	125ml Plastic	HNO3	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/07/12 23:32	EMR		
Mercury Digestion	Completed			7471A	05/07/12 10:05	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:24	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:24	SLS	7440-38-2	
Barium, Dissolved	0.431	mg/L	0.010	6020	05/10/12 15:24	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 15:24	SLS	7440-41-7	
Boron, Dissolved	0.24	mg/L	0.04	6020	05/10/12 15:24	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 15:24	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:24	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:24	SLS	7440-48-4	
Copper, Dissolved	0.002	mg/L	0.002	6020	05/10/12 15:24	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:24	SLS	7439-92-1	
Manganese, Dissolved	0.591	mg/L	0.010	6020	05/10/12 15:24	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/08/12 12:21	JRT	7439-97-6	
Nickel, Dissolved	0.022	mg/L	0.010	6020	05/10/12 15:24	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:24	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 15:24	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:24	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:24	SLS	7440-62-2	
Zinc, Dissolved	0.015	mg/L	0.010	6020	05/10/12 15:24	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/08/12 18:25	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/08/12 18:25	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	205-99-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.08 (continued)

Sample Tag: VAP-A5.1-MW162_20-22

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/09/12 16:34	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/09/12 16:34	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	05/09/12 16:34	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/09/12 16:34	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	98-95-3	
di-n-Octyl phthalate	1	ug/L	1	8270C	05/09/12 16:34	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	129-00-0	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.08 (continued)

Sample Tag: VAP-A5.1-MW162_20-22

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/09/12 16:34	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.09
Sample Tag: VAP-A5.1-MW162_26-28
Collected Date/Time: 05/04/2012 14:40
Matrix: Groundwater
COC Reference: 67624

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	5.5	IR
3	40ml Glass	HCL	Yes	5.5	IR
1	125ml Plastic	HNO3	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/07/12 23:32	EMR		
Mercury Digestion	Completed			7471A	05/07/12 10:05	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:28	SLS	7440-36-0	
Arsenic, Dissolved	0.004	mg/L	0.002	6020	05/10/12 15:28	SLS	7440-38-2	
Barium, Dissolved	0.290	mg/L	0.010	6020	05/10/12 15:28	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 15:28	SLS	7440-41-7	
Boron, Dissolved	0.36	mg/L	0.04	6020	05/10/12 15:28	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 15:28	SLS	7440-43-9	
Chromium, Dissolved	0.011	mg/L	0.010	6020	05/10/12 15:28	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:28	SLS	7440-48-4	
Copper, Dissolved	0.008	mg/L	0.002	6020	05/10/12 15:28	SLS	7440-50-8	
Lead, Dissolved	0.003	mg/L	0.002	6020	05/10/12 15:28	SLS	7439-92-1	
Manganese, Dissolved	0.535	mg/L	0.010	6020	05/10/12 15:28	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/08/12 12:16	JRT	7439-97-6	
Nickel, Dissolved	0.029	mg/L	0.010	6020	05/10/12 15:28	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:28	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 15:28	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:28	SLS	7440-28-0	
Vanadium, Dissolved	0.003	mg/L	0.002	6020	05/10/12 15:28	SLS	7440-62-2	
Zinc, Dissolved	0.035	mg/L	0.010	6020	05/10/12 15:28	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.06	8270C	05/08/12 18:54	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.06	8270C	05/08/12 18:54	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	205-99-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.09 (continued)

Sample Tag: VAP-A5.1-MW162_26-28

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/09/12 17:03	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/09/12 17:03	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	05/09/12 17:03	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/09/12 17:03	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	129-00-0	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.09 (continued)

Sample Tag: VAP-A5.1-MW162_26-28

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/09/12 17:03	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.10
Sample Tag: Trip Blank
Collected Date/Time: 05/04/2012 00:01
Matrix: Groundwater
COC Reference: 67624

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				05/07/12 10:35	PCS		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.11
Sample Tag: SB-A5.2-NG105_13-14
Collected Date/Time: 05/04/2012 11:20
Matrix: Soil
COC Reference: 67641

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:33	EMR		
Extraction, PCB	Completed			3550B	05/10/12 15:47	ADB		
Mercury Digestion	Completed			7471A	05/14/12 10:35	JRH		
Metal Digestion	Completed			3050B	05/14/12 11:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/14/12 15:44	PER	7440-36-0	
Arsenic	1.34	mg/kg	0.10	6020	05/14/12 15:44	PER	7440-38-2	
Barium	18.7	mg/kg	1.0	6020	05/14/12 15:44	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/14/12 15:44	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/14/12 15:44	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 15:44	PER	7440-43-9	
Chromium	4.74	mg/kg	0.21	6020	05/14/12 15:44	PER	7440-47-3	
Cobalt	3.34	mg/kg	0.21	6020	05/14/12 15:44	PER	7440-48-4	
Copper	7.84	mg/kg	0.21	6020	05/14/12 15:44	PER	7440-50-8	
Lead	3.66	mg/kg	0.21	6020	05/14/12 15:44	PER	7439-92-1	
Manganese	222	mg/kg	0.21	6020	05/14/12 15:44	PER	7439-96-5	
Mercury	0.0089	mg/kg	0.0055	7471A	05/14/12 15:03	JRT	7439-97-6	
Nickel	10.1	mg/kg	0.21	6020	05/14/12 15:44	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/14/12 15:44	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 15:44	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/14/12 15:44	PER	7440-28-0	
Vanadium	5.90	mg/kg	0.21	6020	05/14/12 15:44	PER	7440-62-2	
Zinc	9.08	mg/kg	1.0	6020	05/14/12 15:44	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/10/12 17:40	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/10/12 17:40	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/10/12 17:40	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/10/12 17:40	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/10/12 17:40	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/10/12 17:40	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/10/12 17:40	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.11 (continued)

Sample Tag: SB-A5.2-NG105_13-14

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 18:17	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	100-52-7	
Benzo(a)anthracene	120	ug/kg	40	8270C	05/10/12 18:17	PL	56-55-3	
Benzo(a)pyrene	110	ug/kg	40	8270C	05/10/12 18:17	PL	50-32-8	
Benzo(b)fluoranthene	190	ug/kg	40	8270C	05/10/12 18:17	PL	205-99-2	p
Benzo(ghi)perylene	60	ug/kg	40	8270C	05/10/12 18:17	PL	191-24-2	
Benzo(k)fluoranthene	190	ug/kg	40	8270C	05/10/12 18:17	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	108-60-1	
Chrysene	120	ug/kg	40	8270C	05/10/12 18:17	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/10/12 18:17	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 18:17	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/10/12 18:17	PL	117-81-7	
Fluoranthene	230	ug/kg	40	8270C	05/10/12 18:17	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	60	ug/kg	40	8270C	05/10/12 18:17	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/10/12 18:17	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	88-75-5	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.11 (continued)

Sample Tag: SB-A5.2-NG105_13-14

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 18:17	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	87-86-5	
Phenanthrene	120	ug/kg	40	8270C	05/10/12 18:17	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	108-95-2	
Pyrene	200	ug/kg	40	8270C	05/10/12 18:17	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 18:17	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.12
Sample Tag: SB-A5.2-NZ144_1-2
Collected Date/Time: 05/04/2012 12:30
Matrix: Soil
COC Reference: 67641

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:33	EMR		
BNA Extraction (Replicate 01)	Completed			3550B	05/11/12 23:53	EMR		
Extraction, PCB	Completed			3550B	05/10/12 15:47	ADB		
Mercury Digestion	Completed			7471A	05/14/12 10:35	JRH		
Metal Digestion	Completed			3050B	05/14/12 11:00	PER		

Inorganics

Total Solids	73	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/14/12 15:47	PER	7440-36-0	
Arsenic	4.34	mg/kg	0.10	6020	05/14/12 15:47	PER	7440-38-2	
Barium	26.2	mg/kg	1.0	6020	05/14/12 15:47	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/14/12 15:47	PER	7440-41-7	
Boron	5.13	mg/kg	4.3	6020	05/14/12 15:47	PER	7440-42-8	
Cadmium	0.13	mg/kg	0.10	6020	05/14/12 15:47	PER	7440-43-9	
Chromium	6.84	mg/kg	0.21	6020	05/14/12 15:47	PER	7440-47-3	
Cobalt	222	mg/kg	0.21	6020	05/14/12 15:47	PER	7440-48-4	
Copper	12.2	mg/kg	0.21	6020	05/14/12 15:47	PER	7440-50-8	
Lead	11.6	mg/kg	0.21	6020	05/14/12 15:47	PER	7439-92-1	
Manganese	187	mg/kg	0.21	6020	05/14/12 15:47	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0066	7471A	05/14/12 15:05	JRT	7439-97-6	
Nickel	15.5	mg/kg	0.21	6020	05/14/12 15:47	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/14/12 15:47	PER	7782-49-2	
Silver	29.4	mg/kg	0.10	6020	05/14/12 15:47	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/14/12 15:47	PER	7440-28-0	
Vanadium	4.77	mg/kg	0.21	6020	05/14/12 15:47	PER	7440-62-2	
Zinc	26.6	mg/kg	1.0	6020	05/14/12 15:47	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	5	8082A	05/10/12 21:11	JANB	12674-11-2	X
PCB-1242	Not detected	ug/kg	5	8082A	05/10/12 21:11	JANB	53469-21-9	X
PCB-1221	Not detected	ug/kg	5	8082A	05/10/12 21:11	JANB	11104-28-2	X
PCB-1232	Not detected	ug/kg	5	8082A	05/10/12 21:11	JANB	11141-16-5	X
PCB-1248	Not detected	ug/kg	5	8082A	05/10/12 21:11	JANB	12672-29-6	X
PCB-1254	50	ug/kg	5	8082A	05/10/12 21:11	JANB	11097-69-1	X
PCB-1260	Not detected	ug/kg	5	8082A	05/10/12 21:11	JANB	11096-82-5	X

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	83-32-9	
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X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.12 (continued)

Sample Tag: SB-A5.2-NZ144_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acenaphthylene	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	208-96-8	
Acetophenone	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	98-86-2	
Anthracene	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	120-12-7	S
Atrazine	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	1912-24-9	S
1,1'-Biphenyl	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	400	8270C	05/10/12 21:42	PL	84-74-2	SX
Benzaldehyde	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	105-60-2	
Carbazole	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	86-74-8	S
bis(2-Chloroethoxy)methane	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	108-60-1	
Chrysene	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	534-52-1	S
Dibenzo(ah)anthracene	Not detected	ug/kg	400	8270C	05/10/12 21:42	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	400	8270C	05/10/12 21:42	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	400	8270C	05/10/12 21:42	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	206-44-0	S
Fluorene	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	118-74-1	S
Hexachlorobutadiene	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	193-39-5	
Isophorone	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	95-48-7	

S-Surrogate recovery outside of control limits

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.12 (continued)

Sample Tag: SB-A5.2-NZ144_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-, 4-Methylphenol	Not detected	ug/kg	400	8270C	05/10/12 21:42	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	86-30-6	S
Naphthalene	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	400	8270C	05/10/12 21:42	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	87-86-5	S
Phenanthrene	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	85-01-8	S
Phenol	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	108-95-2	
Pyrene	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	200	8270C	05/10/12 21:42	PL	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	208-96-8	
Acetophenone	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	98-86-2	
Anthracene	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	120-12-7	S
Atrazine	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	1912-24-9	S
1,1'-Biphenyl	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	101-55-3	S
di-n-Butyl phthalate	Not detected	ug/kg	400	8270C	05/12/12 22:40	PL	84-74-2	XS
Benzaldehyde	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	105-60-2	
Carbazole	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	86-74-8	S
bis(2-Chloroethoxy)methane	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	108-60-1	
Chrysene	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	105-67-9	

S-Surrogate recovery outside of control limits

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.12 (continued)

Sample Tag: SB-A5.2-NZ144_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
2,4-Dinitrophenol	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	534-52-1	S
Dibenzo(ah)anthracene	Not detected	ug/kg	400	8270C	05/12/12 22:40	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	400	8270C	05/12/12 22:40	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	400	8270C	05/12/12 22:40	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	206-44-0	S
Fluorene	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	118-74-1	S
Hexachlorobutadiene	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	193-39-5	
Isophorone	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	400	8270C	05/12/12 22:40	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	86-30-6	S
Naphthalene	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	400	8270C	05/12/12 22:40	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	87-86-5	S
Phenanthrene	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	85-01-8	S
Phenol	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	108-95-2	
Pyrene	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	200	8270C	05/12/12 22:40	PL	88-06-2	

S-Surrogate recovery outside of control limits

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.13
Sample Tag: SB-A5.2-NZ144_6-7
Collected Date/Time: 05/04/2012 12:55
Matrix: Soil
COC Reference: 67641

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:33	EMR		
Extraction, PCB	Completed			3550B	05/10/12 15:47	ADB		
Mercury Digestion	Completed			7471A	05/14/12 10:35	JRH		
Metal Digestion	Completed			3050B	05/14/12 11:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/14/12 15:49	PER	7440-36-0	
Arsenic	0.26	mg/kg	0.10	6020	05/14/12 15:49	PER	7440-38-2	
Barium	20.3	mg/kg	1.0	6020	05/14/12 15:49	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/14/12 15:49	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/14/12 15:49	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 15:49	PER	7440-43-9	
Chromium	2.08	mg/kg	0.20	6020	05/14/12 15:49	PER	7440-47-3	
Cobalt	1.88	mg/kg	0.20	6020	05/14/12 15:49	PER	7440-48-4	
Copper	5.07	mg/kg	0.20	6020	05/14/12 15:49	PER	7440-50-8	
Lead	2.57	mg/kg	0.20	6020	05/14/12 15:49	PER	7439-92-1	
Manganese	169	mg/kg	0.20	6020	05/14/12 15:49	PER	7439-96-5	
Mercury	0.0060	mg/kg	0.0059	7471A	05/14/12 15:07	JRT	7439-97-6	
Nickel	4.63	mg/kg	0.20	6020	05/14/12 15:49	PER	7440-02-0	
Selenium	0.24	mg/kg	0.20	6020	05/14/12 15:49	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 15:49	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/14/12 15:49	PER	7440-28-0	
Vanadium	4.60	mg/kg	0.20	6020	05/14/12 15:49	PER	7440-62-2	
Zinc	6.82	mg/kg	1.0	6020	05/14/12 15:49	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/10/12 17:50	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/10/12 17:50	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/10/12 17:50	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/10/12 17:50	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/10/12 17:50	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/10/12 17:50	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/10/12 17:50	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.13 (continued)

Sample Tag: SB-A5.2-NZ144_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 18:46	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/10/12 18:46	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 18:46	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/10/12 18:46	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/10/12 18:46	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.13 (continued)

Sample Tag: SB-A5.2-NZ144_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 18:46	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 18:46	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.14
Sample Tag: SB-A5.2-NZ144_12-13
Collected Date/Time: 05/04/2012 13:00
Matrix: Soil
COC Reference: 67641

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:33	EMR		
Extraction, PCB	Completed			3550B	05/10/12 15:47	ADB		
Mercury Digestion	Completed			7471A	05/14/12 10:35	JRH		
Metal Digestion	Completed			3050B	05/14/12 12:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/14/12 16:39	PER	7440-36-0	
Arsenic	0.88	mg/kg	0.10	6020	05/14/12 16:39	PER	7440-38-2	
Barium	26.6	mg/kg	1.0	6020	05/14/12 16:39	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/14/12 16:39	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	05/14/12 16:39	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 16:39	PER	7440-43-9	
Chromium	3.26	mg/kg	0.21	6020	05/14/12 16:39	PER	7440-47-3	
Cobalt	2.85	mg/kg	0.21	6020	05/14/12 16:39	PER	7440-48-4	
Copper	9.79	mg/kg	0.21	6020	05/14/12 16:39	PER	7440-50-8	
Lead	4.58	mg/kg	0.21	6020	05/14/12 16:39	PER	7439-92-1	
Manganese	244	mg/kg	0.21	6020	05/14/12 16:39	PER	7439-96-5	
Mercury	0.0100	mg/kg	0.0056	7471A	05/14/12 15:48	JRT	7439-97-6	
Nickel	8.60	mg/kg	0.21	6020	05/14/12 16:39	PER	7440-02-0	
Selenium	0.35	mg/kg	0.21	6020	05/14/12 16:39	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 16:39	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/14/12 16:39	PER	7440-28-0	
Vanadium	5.03	mg/kg	0.21	6020	05/14/12 16:39	PER	7440-62-2	
Zinc	13.8	mg/kg	1.0	6020	05/14/12 16:39	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/10/12 17:08	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/10/12 17:08	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/10/12 17:08	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/10/12 17:08	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/10/12 17:08	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/10/12 17:08	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/10/12 17:08	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.14 (continued)

Sample Tag: SB-A5.2-NZ144_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 19:15	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/10/12 19:15	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 19:15	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/10/12 19:15	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/10/12 19:15	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.14 (continued)

Sample Tag: SB-A5.2-NZ144_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 19:15	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 19:15	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.15
Sample Tag: SB-A5.2-NZ144_12-13 MS
Collected Date/Time: 05/04/2012 13:00
Matrix: Soil
COC Reference: 67641

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:33	EMR		
Extraction, PCB	Completed			3550B	05/10/12 15:47	ADB		
Mercury Digestion	Completed			7471A	05/14/12 10:35	JRH		
Metal Digestion	Completed			3050B	05/14/12 12:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	20.7	mg/kg	0.21	6020	05/14/12 16:41	PER	7440-36-0	
Arsenic	22.7	mg/kg	0.10	6020	05/14/12 16:41	PER	7440-38-2	
Barium	49.5	mg/kg	1.0	6020	05/14/12 16:41	PER	7440-39-3	
Beryllium	21.3	mg/kg	0.21	6020	05/14/12 16:41	PER	7440-41-7	
Boron	21.7	mg/kg	4.3	6020	05/14/12 16:41	PER	7440-42-8	
Cadmium	21.8	mg/kg	0.10	6020	05/14/12 16:41	PER	7440-43-9	
Chromium	25.0	mg/kg	0.21	6020	05/14/12 16:41	PER	7440-47-3	
Cobalt	25.7	mg/kg	0.21	6020	05/14/12 16:41	PER	7440-48-4	
Copper	30.1	mg/kg	0.21	6020	05/14/12 16:41	PER	7440-50-8	
Lead	24.7	mg/kg	0.21	6020	05/14/12 16:41	PER	7439-92-1	
Manganese	270	mg/kg	0.21	6020	05/14/12 16:41	PER	7439-96-5	
Mercury	0.1360	mg/kg	0.0055	7471A	05/14/12 15:50	JRT	7439-97-6	
Nickel	30.4	mg/kg	0.21	6020	05/14/12 16:41	PER	7440-02-0	
Selenium	21.9	mg/kg	0.21	6020	05/14/12 16:41	PER	7782-49-2	
Silver	20.3	mg/kg	0.10	6020	05/14/12 16:41	PER	7440-22-4	
Thallium	18.5	mg/kg	0.21	6020	05/14/12 16:41	PER	7440-28-0	
Vanadium	27.7	mg/kg	0.21	6020	05/14/12 16:41	PER	7440-62-2	
Zinc	33.1	mg/kg	1.0	6020	05/14/12 16:41	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	30	ug/kg	3	8082A	05/10/12 17:19	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/10/12 17:19	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/10/12 17:19	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/10/12 17:19	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/10/12 17:19	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/10/12 17:19	JANB	11097-69-1	
PCB-1260	20	ug/kg	3	8082A	05/10/12 17:19	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	1,180	ug/kg	40	8270C	05/10/12 19:45	PL	83-32-9	1
Acenaphthylene	1,190	ug/kg	40	8270C	05/10/12 19:45	PL	208-96-8	1

1-Sample spiked at 1.85 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.15 (continued)

Sample Tag: SB-A5.2-NZ144_12-13 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	1,200	ug/kg	40	8270C	05/10/12 19:45	PL	98-86-2	1
Anthracene	1,270	ug/kg	40	8270C	05/10/12 19:45	PL	120-12-7	1
Atrazine	1,460	ug/kg	40	8270C	05/10/12 19:45	PL	1912-24-9	1
1,1'-Biphenyl	1,170	ug/kg	40	8270C	05/10/12 19:45	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,290	ug/kg	40	8270C	05/10/12 19:45	PL	101-55-3	1
di-n-Butyl phthalate	1,420	ug/kg	70	8270C	05/10/12 19:45	PL	84-74-2	1
Benzaldehyde	910	ug/kg	40	8270C	05/10/12 19:45	PL	100-52-7	1
Benzo(a)anthracene	1,270	ug/kg	40	8270C	05/10/12 19:45	PL	56-55-3	1
Benzo(a)pyrene	1,200	ug/kg	40	8270C	05/10/12 19:45	PL	50-32-8	1
Benzo(b)fluoranthene	1,330	ug/kg	40	8270C	05/10/12 19:45	PL	205-99-2	1
Benzo(ghi)perylene	1,160	ug/kg	40	8270C	05/10/12 19:45	PL	191-24-2	1
Benzo(k)fluoranthene	1,300	ug/kg	40	8270C	05/10/12 19:45	PL	207-08-9	1
Butyl benzyl phthalate	1,420	ug/kg	40	8270C	05/10/12 19:45	PL	85-68-7	1
2-Chloronaphthalene	1,170	ug/kg	40	8270C	05/10/12 19:45	PL	91-58-7	1
2-Chlorophenol	1,110	ug/kg	40	8270C	05/10/12 19:45	PL	95-57-8	1
4-Chloro-3-methylphenol	1,330	ug/kg	40	8270C	05/10/12 19:45	PL	59-50-7	1
4-Chloroaniline	1,150	ug/kg	40	8270C	05/10/12 19:45	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,270	ug/kg	40	8270C	05/10/12 19:45	PL	7005-72-3	1
Caprolactam	1,300	ug/kg	40	8270C	05/10/12 19:45	PL	105-60-2	1
Carbazole	1,300	ug/kg	40	8270C	05/10/12 19:45	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,160	ug/kg	40	8270C	05/10/12 19:45	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,000	ug/kg	40	8270C	05/10/12 19:45	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	900	ug/kg	40	8270C	05/10/12 19:45	PL	108-60-1	1
Chrysene	1,310	ug/kg	40	8270C	05/10/12 19:45	PL	218-01-9	1
2,4-Dichlorophenol	1,210	ug/kg	40	8270C	05/10/12 19:45	PL	120-83-2	1
2,4-Dimethylphenol	1,190	ug/kg	40	8270C	05/10/12 19:45	PL	105-67-9	1
2,4-Dinitrophenol	680	ug/kg	40	8270C	05/10/12 19:45	PL	51-28-5	1
2,4-Dinitrotoluene	1,340	ug/kg	40	8270C	05/10/12 19:45	PL	121-14-2	1
2,6-Dinitrotoluene	1,340	ug/kg	40	8270C	05/10/12 19:45	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,430	ug/kg	40	8270C	05/10/12 19:45	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,150	ug/kg	40	8270C	05/10/12 19:45	PL	534-52-1	1
Dibenzo(ah)anthracene	1,240	ug/kg	70	8270C	05/10/12 19:45	PL	53-70-3	1
Dibenzofuran	1,240	ug/kg	40	8270C	05/10/12 19:45	PL	132-64-9	1
Diethyl phthalate	1,360	ug/kg	70	8270C	05/10/12 19:45	PL	84-66-2	1
Dimethyl phthalate	1,310	ug/kg	40	8270C	05/10/12 19:45	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	1,480	ug/kg	70	8270C	05/10/12 19:45	PL	117-81-7	1
Fluoranthene	1,260	ug/kg	40	8270C	05/10/12 19:45	PL	206-44-0	1
Fluorene	1,260	ug/kg	40	8270C	05/10/12 19:45	PL	86-73-7	1
Hexachlorobenzene	1,310	ug/kg	40	8270C	05/10/12 19:45	PL	118-74-1	1
Hexachlorobutadiene	1,120	ug/kg	40	8270C	05/10/12 19:45	PL	87-68-3	1
Hexachlorocyclopentadiene	590	ug/kg	40	8270C	05/10/12 19:45	PL	77-47-4	1
Hexachloroethane	1,010	ug/kg	40	8270C	05/10/12 19:45	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,170	ug/kg	40	8270C	05/10/12 19:45	PL	193-39-5	1
Isophorone	1,180	ug/kg	40	8270C	05/10/12 19:45	PL	78-59-1	1
2-Methylnaphthalene	1,100	ug/kg	40	8270C	05/10/12 19:45	PL	91-57-6	1
2-Methylphenol	1,160	ug/kg	40	8270C	05/10/12 19:45	PL	95-48-7	1
3-, 4-Methylphenol	2,510	ug/kg	70	8270C	05/10/12 19:45	PL	3/4-Cresol	1
2-Nitroaniline	1,330	ug/kg	40	8270C	05/10/12 19:45	PL	88-74-4	1

1-Sample spiked at 1.85 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.15 (continued)

Sample Tag: SB-A5.2-NZ144_12-13 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	1,110	ug/kg	40	8270C	05/10/12 19:45	PL	88-75-5	1
3-Nitroaniline	1,270	ug/kg	40	8270C	05/10/12 19:45	PL	99-09-2	1
4-Nitroaniline	1,470	ug/kg	40	8270C	05/10/12 19:45	PL	100-01-6	1
4-Nitrophenol	1,250	ug/kg	40	8270C	05/10/12 19:45	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,190	ug/kg	40	8270C	05/10/12 19:45	PL	621-64-7	1
N-Nitrosodiphenylamine	1,100	ug/kg	40	8270C	05/10/12 19:45	PL	86-30-6	1
Naphthalene	1,070	ug/kg	40	8270C	05/10/12 19:45	PL	91-20-3	1
Nitrobenzene	1,110	ug/kg	40	8270C	05/10/12 19:45	PL	98-95-3	1
di-n-Octyl phthalate	1,480	ug/kg	70	8270C	05/10/12 19:45	PL	117-84-0	1
Pentachlorophenol	1,020	ug/kg	40	8270C	05/10/12 19:45	PL	87-86-5	1
Phenanthrene	1,260	ug/kg	40	8270C	05/10/12 19:45	PL	85-01-8	1
Phenol	1,230	ug/kg	40	8270C	05/10/12 19:45	PL	108-95-2	1
Pyrene	1,240	ug/kg	40	8270C	05/10/12 19:45	PL	129-00-0	1
2,4,5-Trichlorophenol	1,320	ug/kg	40	8270C	05/10/12 19:45	PL	95-95-4	1
2,4,6-Trichlorophenol	1,270	ug/kg	40	8270C	05/10/12 19:45	PL	88-06-2	1

1-Sample spiked at 1.85 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.16

Sample Tag: SB-A5.2-NZ144_12-13 MSD

Collected Date/Time: 05/04/2012 13:00

Matrix: Soil

COC Reference: 67641

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:33	EMR		
Extraction, PCB	Completed			3550B	05/10/12 15:47	ADB		
Mercury Digestion	Completed			7471A	05/14/12 10:35	JRH		
Metal Digestion	Completed			3050B	05/14/12 12:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	20.7	mg/kg	0.21	6020	05/14/12 16:45	PER	7440-36-0	
Arsenic	22.7	mg/kg	0.10	6020	05/14/12 16:45	PER	7440-38-2	
Barium	48.7	mg/kg	1.0	6020	05/14/12 16:45	PER	7440-39-3	
Beryllium	21.1	mg/kg	0.21	6020	05/14/12 16:45	PER	7440-41-7	
Boron	22.3	mg/kg	4.3	6020	05/14/12 16:45	PER	7440-42-8	
Cadmium	21.7	mg/kg	0.10	6020	05/14/12 16:45	PER	7440-43-9	
Chromium	25.1	mg/kg	0.21	6020	05/14/12 16:45	PER	7440-47-3	
Cobalt	25.4	mg/kg	0.21	6020	05/14/12 16:45	PER	7440-48-4	
Copper	30.0	mg/kg	0.21	6020	05/14/12 16:45	PER	7440-50-8	
Lead	24.8	mg/kg	0.21	6020	05/14/12 16:45	PER	7439-92-1	
Manganese	269	mg/kg	0.21	6020	05/14/12 16:45	PER	7439-96-5	
Mercury	0.1332	mg/kg	0.0055	7471A	05/14/12 15:52	JRT	7439-97-6	
Nickel	29.6	mg/kg	0.21	6020	05/14/12 16:45	PER	7440-02-0	
Selenium	20.9	mg/kg	0.21	6020	05/14/12 16:45	PER	7782-49-2	
Silver	20.2	mg/kg	0.10	6020	05/14/12 16:45	PER	7440-22-4	
Thallium	18.4	mg/kg	0.21	6020	05/14/12 16:45	PER	7440-28-0	
Vanadium	27.4	mg/kg	0.21	6020	05/14/12 16:45	PER	7440-62-2	
Zinc	32.7	mg/kg	1.0	6020	05/14/12 16:45	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	30	ug/kg	3	8082A	05/10/12 17:29	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/10/12 17:29	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/10/12 17:29	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/10/12 17:29	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/10/12 17:29	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/10/12 17:29	JANB	11097-69-1	
PCB-1260	30	ug/kg	3	8082A	05/10/12 17:29	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,160	ug/kg	40	8270C	05/10/12 20:14	PL	83-32-9	1
Acenaphthylene	1,200	ug/kg	40	8270C	05/10/12 20:14	PL	208-96-8	1

1-Sample spiked at 1.85 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.16 (continued)

Sample Tag: SB-A5.2-NZ144_12-13 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	1,310	ug/kg	40	8270C	05/10/12 20:14	PL	98-86-2	1
Anthracene	1,220	ug/kg	40	8270C	05/10/12 20:14	PL	120-12-7	1
Atrazine	1,450	ug/kg	40	8270C	05/10/12 20:14	PL	1912-24-9	1
1,1'-Biphenyl	1,160	ug/kg	40	8270C	05/10/12 20:14	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,220	ug/kg	40	8270C	05/10/12 20:14	PL	101-55-3	1
di-n-Butyl phthalate	1,390	ug/kg	70	8270C	05/10/12 20:14	PL	84-74-2	1
Benzaldehyde	1,040	ug/kg	40	8270C	05/10/12 20:14	PL	100-52-7	1
Benzo(a)anthracene	1,220	ug/kg	40	8270C	05/10/12 20:14	PL	56-55-3	1
Benzo(a)pyrene	1,170	ug/kg	40	8270C	05/10/12 20:14	PL	50-32-8	1
Benzo(b)fluoranthene	1,340	ug/kg	40	8270C	05/10/12 20:14	PL	205-99-2	1
Benzo(ghi)perylene	1,130	ug/kg	40	8270C	05/10/12 20:14	PL	191-24-2	1
Benzo(k)fluoranthene	1,260	ug/kg	40	8270C	05/10/12 20:14	PL	207-08-9	1
Butyl benzyl phthalate	1,360	ug/kg	40	8270C	05/10/12 20:14	PL	85-68-7	1
2-Chloronaphthalene	1,180	ug/kg	40	8270C	05/10/12 20:14	PL	91-58-7	1
2-Chlorophenol	1,210	ug/kg	40	8270C	05/10/12 20:14	PL	95-57-8	1
4-Chloro-3-methylphenol	1,380	ug/kg	40	8270C	05/10/12 20:14	PL	59-50-7	1
4-Chloroaniline	1,190	ug/kg	40	8270C	05/10/12 20:14	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,230	ug/kg	40	8270C	05/10/12 20:14	PL	7005-72-3	1
Caprolactam	1,330	ug/kg	40	8270C	05/10/12 20:14	PL	105-60-2	1
Carbazole	1,260	ug/kg	40	8270C	05/10/12 20:14	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,250	ug/kg	40	8270C	05/10/12 20:14	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,140	ug/kg	40	8270C	05/10/12 20:14	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,010	ug/kg	40	8270C	05/10/12 20:14	PL	108-60-1	1
Chrysene	1,230	ug/kg	40	8270C	05/10/12 20:14	PL	218-01-9	1
2,4-Dichlorophenol	1,290	ug/kg	40	8270C	05/10/12 20:14	PL	120-83-2	1
2,4-Dimethylphenol	1,290	ug/kg	40	8270C	05/10/12 20:14	PL	105-67-9	1
2,4-Dinitrophenol	650	ug/kg	40	8270C	05/10/12 20:14	PL	51-28-5	1
2,4-Dinitrotoluene	1,330	ug/kg	40	8270C	05/10/12 20:14	PL	121-14-2	1
2,6-Dinitrotoluene	1,330	ug/kg	40	8270C	05/10/12 20:14	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,390	ug/kg	40	8270C	05/10/12 20:14	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,090	ug/kg	40	8270C	05/10/12 20:14	PL	534-52-1	1
Dibenzo(ah)anthracene	1,210	ug/kg	70	8270C	05/10/12 20:14	PL	53-70-3	1
Dibenzofuran	1,210	ug/kg	40	8270C	05/10/12 20:14	PL	132-64-9	1
Diethyl phthalate	1,320	ug/kg	70	8270C	05/10/12 20:14	PL	84-66-2	1
Dimethyl phthalate	1,300	ug/kg	40	8270C	05/10/12 20:14	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	1,430	ug/kg	70	8270C	05/10/12 20:14	PL	117-81-7	1
Fluoranthene	1,210	ug/kg	40	8270C	05/10/12 20:14	PL	206-44-0	1
Fluorene	1,220	ug/kg	40	8270C	05/10/12 20:14	PL	86-73-7	1
Hexachlorobenzene	1,240	ug/kg	40	8270C	05/10/12 20:14	PL	118-74-1	1
Hexachlorobutadiene	1,190	ug/kg	40	8270C	05/10/12 20:14	PL	87-68-3	1
Hexachlorocyclopentadiene	620	ug/kg	40	8270C	05/10/12 20:14	PL	77-47-4	1
Hexachloroethane	1,120	ug/kg	40	8270C	05/10/12 20:14	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,130	ug/kg	40	8270C	05/10/12 20:14	PL	193-39-5	1
Isophorone	1,260	ug/kg	40	8270C	05/10/12 20:14	PL	78-59-1	1
2-Methylnaphthalene	1,170	ug/kg	40	8270C	05/10/12 20:14	PL	91-57-6	1
2-Methylphenol	1,250	ug/kg	40	8270C	05/10/12 20:14	PL	95-48-7	1
3-, 4-Methylphenol	2,700	ug/kg	70	8270C	05/10/12 20:14	PL	3/4-Cresol	1
2-Nitroaniline	1,340	ug/kg	40	8270C	05/10/12 20:14	PL	88-74-4	1

1-Sample spiked at 1.85 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.16 (continued)

Sample Tag: SB-A5.2-NZ144_12-13 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	1,270	ug/kg	40	8270C	05/10/12 20:14	PL	88-75-5	1
3-Nitroaniline	1,250	ug/kg	40	8270C	05/10/12 20:14	PL	99-09-2	1
4-Nitroaniline	1,490	ug/kg	40	8270C	05/10/12 20:14	PL	100-01-6	1
4-Nitrophenol	1,270	ug/kg	40	8270C	05/10/12 20:14	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,270	ug/kg	40	8270C	05/10/12 20:14	PL	621-64-7	1
N-Nitrosodiphenylamine	1,060	ug/kg	40	8270C	05/10/12 20:14	PL	86-30-6	1
Naphthalene	1,190	ug/kg	40	8270C	05/10/12 20:14	PL	91-20-3	1
Nitrobenzene	1,240	ug/kg	40	8270C	05/10/12 20:14	PL	98-95-3	1
di-n-Octyl phthalate	1,490	ug/kg	70	8270C	05/10/12 20:14	PL	117-84-0	1
Pentachlorophenol	1,010	ug/kg	40	8270C	05/10/12 20:14	PL	87-86-5	1
Phenanthrene	1,210	ug/kg	40	8270C	05/10/12 20:14	PL	85-01-8	1
Phenol	1,340	ug/kg	40	8270C	05/10/12 20:14	PL	108-95-2	1
Pyrene	1,190	ug/kg	40	8270C	05/10/12 20:14	PL	129-00-0	1
2,4,5-Trichlorophenol	1,320	ug/kg	40	8270C	05/10/12 20:14	PL	95-95-4	1
2,4,6-Trichlorophenol	1,310	ug/kg	40	8270C	05/10/12 20:14	PL	88-06-2	1

1-Sample spiked at 1.85 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.17

Sample Tag: SB-A5.2-OG144_0-1

Collected Date/Time: 05/04/2012 14:12

Matrix: Soil

COC Reference: 67641

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:33	EMR		
Extraction, PCB	Completed			3550B	05/10/12 16:21	ADB		
Mercury Digestion	Completed			7471A	05/14/12 10:35	JRH		
Metal Digestion	Completed			3050B	05/14/12 11:00	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	0.91	mg/kg	0.20	6020	05/14/12 15:51	PER	7440-36-0	
Arsenic	3.06	mg/kg	0.10	6020	05/14/12 15:51	PER	7440-38-2	
Barium	468	mg/kg	1.0	6020	05/14/12 15:51	PER	7440-39-3	
Beryllium	0.47	mg/kg	0.20	6020	05/14/12 15:51	PER	7440-41-7	
Boron	8.89	mg/kg	4.1	6020	05/14/12 15:51	PER	7440-42-8	
Cadmium	3.09	mg/kg	0.10	6020	05/14/12 15:51	PER	7440-43-9	
Chromium	191	mg/kg	0.20	6020	05/14/12 15:51	PER	7440-47-3	
Cobalt	13.7	mg/kg	0.20	6020	05/14/12 15:51	PER	7440-48-4	
Copper	54.3	mg/kg	0.20	6020	05/14/12 15:51	PER	7440-50-8	
Lead	1,160	mg/kg	2.0	6020	05/14/12 15:57	PER	7439-92-1	
Manganese	386	mg/kg	0.20	6020	05/14/12 15:51	PER	7439-96-5	
Mercury	0.0474	mg/kg	0.006	7471A	05/14/12 15:09	JRT	7439-97-6	
Nickel	342	mg/kg	0.20	6020	05/14/12 15:51	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/14/12 15:51	PER	7782-49-2	
Silver	0.16	mg/kg	0.10	6020	05/14/12 15:51	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/14/12 15:51	PER	7440-28-0	
Vanadium	10.8	mg/kg	0.20	6020	05/14/12 15:51	PER	7440-62-2	
Zinc	1,020	mg/kg	10.0	6020	05/14/12 15:57	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 13:08	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 13:08	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 13:08	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 13:08	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 13:08	JANB	12672-29-6	
PCB-1254	30	ug/kg	3	8082A	05/11/12 13:08	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 13:08	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,300	ug/kg	600	8270C	05/10/12 23:39	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	208-96-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.17 (continued)

Sample Tag: SB-A5.2-OG144_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	98-86-2	X
Anthracene	3,000	ug/kg	600	8270C	05/10/12 23:39	PL	120-12-7	X
Atrazine	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	1,000	8270C	05/10/12 23:39	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	100-52-7	X
Benzo(a)anthracene	6,400	ug/kg	600	8270C	05/10/12 23:39	PL	56-55-3	X
Benzo(a)pyrene	6,900	ug/kg	600	8270C	05/10/12 23:39	PL	50-32-8	XI
Benzo(b)fluoranthene	14,100	ug/kg	600	8270C	05/10/12 23:39	PL	205-99-2	Xpl
Benzo(ghi)perylene	2,800	ug/kg	600	8270C	05/10/12 23:39	PL	191-24-2	XI
Benzo(k)fluoranthene	14,300	ug/kg	600	8270C	05/10/12 23:39	PL	207-08-9	Xpl
Butyl benzyl phthalate	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	105-60-2	X
Carbazole	1,500	ug/kg	600	8270C	05/10/12 23:39	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	108-60-1	X
Chrysene	6,400	ug/kg	600	8270C	05/10/12 23:39	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	1,000	8270C	05/10/12 23:39	PL	53-70-3	XI
Dibenzofuran	700	ug/kg	600	8270C	05/10/12 23:39	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	1,000	8270C	05/10/12 23:39	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	36,000	ug/kg	1,000	8270C	05/10/12 23:39	PL	117-81-7	X
Fluoranthene	14,600	ug/kg	600	8270C	05/10/12 23:39	PL	206-44-0	X
Fluorene	1,200	ug/kg	600	8270C	05/10/12 23:39	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	2,800	ug/kg	600	8270C	05/10/12 23:39	PL	193-39-5	XI
Isophorone	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	95-48-7	X

X-Elevated reporting limit due to matrix interference

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.17 (continued)

Sample Tag: SB-A5.2-OG144_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-, 4-Methylphenol	Not detected	ug/kg	1,000	8270C	05/10/12 23:39	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	1,000	8270C	05/10/12 23:39	PL	117-84-0	XI
Pentachlorophenol	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	87-86-5	X
Phenanthrene	11,800	ug/kg	600	8270C	05/10/12 23:39	PL	85-01-8	X
Phenol	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	108-95-2	X
Pyrene	15,700	ug/kg	600	8270C	05/10/12 23:39	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	600	8270C	05/10/12 23:39	PL	88-06-2	X
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	1,800	ug/kg	600	8270C	05/11/12 22:43	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	98-86-2	X
Anthracene	4,500	ug/kg	600	8270C	05/11/12 22:43	PL	120-12-7	X
Atrazine	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	1,000	8270C	05/11/12 22:43	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	100-52-7	X
Benzo(a)anthracene	8,900	ug/kg	600	8270C	05/11/12 22:43	PL	56-55-3	X
Benzo(a)pyrene	8,600	ug/kg	600	8270C	05/11/12 22:43	PL	50-32-8	XI
Benzo(b)fluoranthene	20,500	ug/kg	600	8270C	05/11/12 22:43	PL	205-99-2	Xlp
Benzo(ghi)perylene	1,600	ug/kg	600	8270C	05/11/12 22:43	PL	191-24-2	XI
Benzo(k)fluoranthene	20,900	ug/kg	600	8270C	05/11/12 22:43	PL	207-08-9	Xlp
Butyl benzyl phthalate	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	105-60-2	X
Carbazole	2,300	ug/kg	600	8270C	05/11/12 22:43	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	108-60-1	X
Chrysene	9,200	ug/kg	600	8270C	05/11/12 22:43	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	120-83-2	X

X-Elevated reporting limit due to matrix interference

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.17 (continued)

Sample Tag: SB-A5.2-OG144_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
2,4-Dimethylphenol	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	1,000	8270C	05/11/12 22:43	PL	53-70-3	XI
Dibenzofuran	1,100	ug/kg	600	8270C	05/11/12 22:43	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	1,000	8270C	05/11/12 22:43	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	44,000	ug/kg	1,000	8270C	05/11/12 22:43	PL	117-81-7	X
Fluoranthene	22,600	ug/kg	600	8270C	05/11/12 22:43	PL	206-44-0	X
Fluorene	2,000	ug/kg	600	8270C	05/11/12 22:43	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	1,700	ug/kg	600	8270C	05/11/12 22:43	PL	193-39-5	XI
Isophorone	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	1,000	8270C	05/11/12 22:43	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	1,000	8270C	05/11/12 22:43	PL	117-84-0	XI
Pentachlorophenol	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	87-86-5	X
Phenanthrene	17,500	ug/kg	600	8270C	05/11/12 22:43	PL	85-01-8	X
Phenol	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	108-95-2	X
Pyrene	23,100	ug/kg	600	8270C	05/11/12 22:43	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	600	8270C	05/11/12 22:43	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference

I-Matrix interference with internal standard



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.18
Sample Tag: SB-A5.2-OG144_7-8
Collected Date/Time: 05/04/2012 14:27
Matrix: Soil
COC Reference: 67641

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:33	EMR		
Extraction, PCB	Completed			3550B	05/10/12 16:21	ADB		
Mercury Digestion	Completed			7471A	05/14/12 10:35	JRH		
Metal Digestion	Completed			3050B	05/14/12 11:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/14/12 16:05	PER	7440-36-0	
Arsenic	0.26	mg/kg	0.10	6020	05/14/12 16:05	PER	7440-38-2	
Barium	12.5	mg/kg	1.0	6020	05/14/12 16:05	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/14/12 16:05	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/14/12 16:05	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 16:05	PER	7440-43-9	
Chromium	1.34	mg/kg	0.20	6020	05/14/12 16:05	PER	7440-47-3	
Cobalt	0.60	mg/kg	0.20	6020	05/14/12 16:05	PER	7440-48-4	
Copper	4.59	mg/kg	0.20	6020	05/14/12 16:05	PER	7440-50-8	
Lead	2.59	mg/kg	0.20	6020	05/14/12 16:05	PER	7439-92-1	
Manganese	56.9	mg/kg	0.20	6020	05/14/12 16:05	PER	7439-96-5	
Mercury	0.0065	mg/kg	0.0057	7471A	05/14/12 15:12	JRT	7439-97-6	
Nickel	2.26	mg/kg	0.20	6020	05/14/12 16:05	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/14/12 16:05	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 16:05	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/14/12 16:05	PER	7440-28-0	
Vanadium	2.83	mg/kg	0.20	6020	05/14/12 16:05	PER	7440-62-2	
Zinc	3.83	mg/kg	1.0	6020	05/14/12 16:05	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 13:29	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 13:29	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 13:29	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 13:29	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 13:29	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 13:29	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 13:29	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.18 (continued)

Sample Tag: SB-A5.2-OG144_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 20:43	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/10/12 20:43	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 20:43	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/10/12 20:43	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/10/12 20:43	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.18 (continued)

Sample Tag: SB-A5.2-OG144_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 20:43	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 20:43	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.19
Sample Tag: SB-A5.2-OG144_5-9
Collected Date/Time: 05/04/2012 14:50
Matrix: Groundwater
COC Reference: 67641

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.5	IR
2	40ml Glass	HCL	Yes	5.5	IR
1	125ml Plastic	HNO3	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/07/12 23:32	EMR		
Extraction, PCB	Completed			3510C	05/10/12 08:30	CCM		
Mercury Digestion	Completed			7471A	05/07/12 10:05	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:32	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:32	SLS	7440-38-2	
Barium, Dissolved	0.215	mg/L	0.010	6020	05/10/12 15:32	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 15:32	SLS	7440-41-7	
Boron, Dissolved	0.88	mg/L	0.04	6020	05/10/12 15:32	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 15:32	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:32	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:32	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:32	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:32	SLS	7439-92-1	
Manganese, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:32	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/08/12 12:19	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:32	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:32	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 15:32	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:32	SLS	7440-28-0	
Vanadium, Dissolved	0.007	mg/L	0.002	6020	05/10/12 15:32	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:32	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/10/12 14:34	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/10/12 14:34	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/10/12 14:34	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/10/12 14:34	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/10/12 14:34	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/10/12 14:34	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/10/12 14:34	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/08/12 19:22	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/08/12 19:22	PL	118-74-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.19 (continued)

Sample Tag: SB-A5.2-OG144_5-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	84-74-2	
Benzaldehyde	2	ug/L	1	8270C	05/09/12 17:33	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/09/12 17:33	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	105-60-2	
Carbazole	1	ug/L	1	8270C	05/09/12 17:33	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	120-83-2	
2,4-Dimethylphenol	9	ug/L	1	8270C	05/09/12 17:33	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	606-20-2	
4,6-Dinitro-2-methylphenol	3	ug/L	1	8270C	05/09/12 17:33	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/09/12 17:33	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	05/09/12 17:33	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/09/12 17:33	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	91-57-6	
2-Methylphenol	3	ug/L	1	8270C	05/09/12 17:33	PL	95-48-7	
3-, 4-Methylphenol	4	ug/L	1	8270C	05/09/12 17:33	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	88-75-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.19 (continued)

Sample Tag: SB-A5.2-OG144_5-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	86-30-6	
Naphthalene	4	ug/L	1	8270C	05/09/12 17:33	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	117-84-0	
Pentachlorophenol	4	ug/L	1	8270C	05/09/12 17:33	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	85-01-8	
Phenol	124	ug/L	1	8270C	05/09/12 17:33	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	129-00-0	
2,4,5-Trichlorophenol	1	ug/L	1	8270C	05/09/12 17:33	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/09/12 17:33	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.20
Sample Tag: SB-A5.2-OG144_12-13
Collected Date/Time: 05/04/2012 15:21
Matrix: Soil
COC Reference: 67641

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:33	EMR		
Extraction, PCB	Completed			3550B	05/10/12 16:21	ADB		
Mercury Digestion	Completed			7471A	05/14/12 10:35	JRH		
Metal Digestion	Completed			3050B	05/14/12 11:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/14/12 16:07	PER	7440-36-0	
Arsenic	1.38	mg/kg	0.10	6020	05/14/12 16:07	PER	7440-38-2	
Barium	15.8	mg/kg	1.0	6020	05/14/12 16:07	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/14/12 16:07	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/14/12 16:07	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 16:07	PER	7440-43-9	
Chromium	2.17	mg/kg	0.21	6020	05/14/12 16:07	PER	7440-47-3	
Cobalt	2.45	mg/kg	0.21	6020	05/14/12 16:07	PER	7440-48-4	
Copper	8.77	mg/kg	0.21	6020	05/14/12 16:07	PER	7440-50-8	
Lead	4.36	mg/kg	0.21	6020	05/14/12 16:07	PER	7439-92-1	
Manganese	226	mg/kg	0.21	6020	05/14/12 16:07	PER	7439-96-5	
Mercury	0.0072	mg/kg	0.0056	7471A	05/14/12 15:14	JRT	7439-97-6	
Nickel	8.26	mg/kg	0.21	6020	05/14/12 16:07	PER	7440-02-0	
Selenium	0.38	mg/kg	0.21	6020	05/14/12 16:07	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 16:07	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/14/12 16:07	PER	7440-28-0	
Vanadium	4.60	mg/kg	0.21	6020	05/14/12 16:07	PER	7440-62-2	
Zinc	13.0	mg/kg	1.0	6020	05/14/12 16:07	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 13:40	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 13:40	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 13:40	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 13:40	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 13:40	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 13:40	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 13:40	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.20 (continued)

Sample Tag: SB-A5.2-OG144_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 21:13	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/10/12 21:13	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 21:13	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/10/12 21:13	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/10/12 21:13	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.20 (continued)

Sample Tag: SB-A5.2-OG144_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 21:13	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 21:13	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.21
Sample Tag: SB-A5.2-OG144_21-22
Collected Date/Time: 05/04/2012 15:40
Matrix: Soil
COC Reference: 67641

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:45	EMR		
Extraction, PCB	Completed			3550B	05/10/12 16:21	ADB		
Mercury Digestion	Completed			7471A	05/14/12 10:35	JRH		
Metal Digestion	Completed			3050B	05/14/12 11:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/14/12 16:09	PER	7440-36-0	
Arsenic	5.30	mg/kg	0.10	6020	05/14/12 16:09	PER	7440-38-2	
Barium	26.4	mg/kg	1.0	6020	05/14/12 16:09	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/14/12 16:09	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/14/12 16:09	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 16:09	PER	7440-43-9	
Chromium	3.69	mg/kg	0.21	6020	05/14/12 16:09	PER	7440-47-3	
Cobalt	2.82	mg/kg	0.21	6020	05/14/12 16:09	PER	7440-48-4	
Copper	8.82	mg/kg	0.21	6020	05/14/12 16:09	PER	7440-50-8	
Lead	4.07	mg/kg	0.21	6020	05/14/12 16:09	PER	7439-92-1	
Manganese	216	mg/kg	0.21	6020	05/14/12 16:09	PER	7439-96-5	
Mercury	0.0097	mg/kg	0.0056	7471A	05/14/12 15:27	JRT	7439-97-6	
Nickel	7.84	mg/kg	0.21	6020	05/14/12 16:09	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/14/12 16:09	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 16:09	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/14/12 16:09	PER	7440-28-0	
Vanadium	4.14	mg/kg	0.21	6020	05/14/12 16:09	PER	7440-62-2	
Zinc	10.3	mg/kg	1.0	6020	05/14/12 16:09	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 13:50	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 13:50	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 13:50	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 13:50	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 13:50	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 13:50	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 13:50	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.21 (continued)

Sample Tag: SB-A5.2-OG144_21-22

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 14:25	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/10/12 14:25	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 14:25	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/10/12 14:25	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/10/12 14:25	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.21 (continued)

Sample Tag: SB-A5.2-OG144_21-22

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 14:25	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 14:25	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.22
Sample Tag: SB-A5.2-DUP12
Collected Date/Time: 05/04/2012 00:01
Matrix: Soil
COC Reference: 67641

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:45	EMR		
Extraction, PCB	Completed			3550B	05/10/12 16:21	ADB		
Mercury Digestion	Completed			7471A	05/14/12 10:35	JRH		
Metal Digestion	Completed			3050B	05/14/12 11:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/14/12 16:11	PER	7440-36-0	
Arsenic	1.31	mg/kg	0.10	6020	05/14/12 16:11	PER	7440-38-2	
Barium	16.8	mg/kg	1.0	6020	05/14/12 16:11	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/14/12 16:11	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/14/12 16:11	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 16:11	PER	7440-43-9	
Chromium	2.08	mg/kg	0.20	6020	05/14/12 16:11	PER	7440-47-3	
Cobalt	2.82	mg/kg	0.20	6020	05/14/12 16:11	PER	7440-48-4	
Copper	8.12	mg/kg	0.20	6020	05/14/12 16:11	PER	7440-50-8	
Lead	4.11	mg/kg	0.20	6020	05/14/12 16:11	PER	7439-92-1	
Manganese	224	mg/kg	0.20	6020	05/14/12 16:11	PER	7439-96-5	
Mercury	0.0073	mg/kg	0.0056	7471A	05/14/12 15:30	JRT	7439-97-6	
Nickel	7.77	mg/kg	0.20	6020	05/14/12 16:11	PER	7440-02-0	
Selenium	0.21	mg/kg	0.20	6020	05/14/12 16:11	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 16:11	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/14/12 16:11	PER	7440-28-0	
Vanadium	4.04	mg/kg	0.20	6020	05/14/12 16:11	PER	7440-62-2	
Zinc	12.3	mg/kg	1.0	6020	05/14/12 16:11	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 14:01	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 14:01	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 14:01	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 14:01	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 14:01	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 14:01	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 14:01	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.22 (continued)

Sample Tag: SB-A5.2-DUP12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 14:59	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/10/12 14:59	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 14:59	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/10/12 14:59	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/10/12 14:59	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.22 (continued)

Sample Tag: SB-A5.2-DUP12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 14:59	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 14:59	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.23
Sample Tag: SB-A5.2-DUP11
Collected Date/Time: 05/04/2012 00:01
Matrix: Soil
COC Reference: 67641

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:45	EMR		
Extraction, PCB	Completed			3550B	05/10/12 16:21	ADB		
Mercury Digestion	Completed			7471A	05/14/12 10:35	JRH		
Metal Digestion	Completed			3050B	05/14/12 11:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/14/12 16:13	PER	7440-36-0	
Arsenic	0.29	mg/kg	0.10	6020	05/14/12 16:13	PER	7440-38-2	
Barium	13.1	mg/kg	1.0	6020	05/14/12 16:13	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/14/12 16:13	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	05/14/12 16:13	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 16:13	PER	7440-43-9	
Chromium	1.73	mg/kg	0.21	6020	05/14/12 16:13	PER	7440-47-3	
Cobalt	0.76	mg/kg	0.21	6020	05/14/12 16:13	PER	7440-48-4	
Copper	4.74	mg/kg	0.21	6020	05/14/12 16:13	PER	7440-50-8	
Lead	2.92	mg/kg	0.21	6020	05/14/12 16:13	PER	7439-92-1	
Manganese	61.6	mg/kg	0.21	6020	05/14/12 16:13	PER	7439-96-5	
Mercury	0.0082	mg/kg	0.0056	7471A	05/14/12 15:32	JRT	7439-97-6	
Nickel	2.68	mg/kg	0.21	6020	05/14/12 16:13	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/14/12 16:13	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 16:13	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/14/12 16:13	PER	7440-28-0	
Vanadium	3.14	mg/kg	0.21	6020	05/14/12 16:13	PER	7440-62-2	
Zinc	5.10	mg/kg	1.0	6020	05/14/12 16:13	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 14:11	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 14:11	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 14:11	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 14:11	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 14:11	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 14:11	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 14:11	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.23 (continued)

Sample Tag: SB-A5.2-DUP11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 15:33	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/10/12 15:33	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 15:33	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/10/12 15:33	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/10/12 15:33	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.23 (continued)

Sample Tag: SB-A5.2-DUP11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 15:33	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 15:33	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.24
Sample Tag: SB-A5.2-DUP10
Collected Date/Time: 05/04/2012 00:01
Matrix: Soil
COC Reference: 67641

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:45	EMR		
BNA Extraction (Replicate 01)	Completed			3550B	05/11/12 23:53	EMR		
Extraction, PCB	Completed			3550B	05/10/12 16:21	ADB		
Mercury Digestion	Completed			7471A	05/14/12 10:35	JRH		
Metal Digestion	Completed			3050B	05/14/12 11:00	PER		

Inorganics

Total Solids	63	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/14/12 16:15	PER	7440-36-0	
Arsenic	2.84	mg/kg	0.10	6020	05/14/12 16:15	PER	7440-38-2	
Barium	30.7	mg/kg	1.0	6020	05/14/12 16:15	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/14/12 16:15	PER	7440-41-7	
Boron	5.98	mg/kg	4.0	6020	05/14/12 16:15	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 16:15	PER	7440-43-9	
Chromium	7.37	mg/kg	0.20	6020	05/14/12 16:15	PER	7440-47-3	
Cobalt	303	mg/kg	0.20	6020	05/14/12 16:15	PER	7440-48-4	
Copper	12.8	mg/kg	0.20	6020	05/14/12 16:15	PER	7440-50-8	
Lead	10.4	mg/kg	0.20	6020	05/14/12 16:15	PER	7439-92-1	
Manganese	191	mg/kg	0.20	6020	05/14/12 16:15	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0080	7471A	05/14/12 15:34	JRT	7439-97-6	
Nickel	19.5	mg/kg	0.20	6020	05/14/12 16:15	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/14/12 16:15	PER	7782-49-2	
Silver	36.6	mg/kg	0.10	6020	05/14/12 16:15	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/14/12 16:15	PER	7440-28-0	
Vanadium	6.28	mg/kg	0.20	6020	05/14/12 16:15	PER	7440-62-2	
Zinc	26.2	mg/kg	1.0	6020	05/14/12 16:15	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 14:22	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 14:22	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 14:22	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 14:22	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 14:22	JANB	12672-29-6	
PCB-1254	8	ug/kg	3	8082A	05/11/12 14:22	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 14:22	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	208-96-8	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.24 (continued)

Sample Tag: SB-A5.2-DUP10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	98-86-2	
Anthracene	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	120-12-7	S
Atrazine	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	1912-24-9	S
1,1'-Biphenyl	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	101-55-3	S
di-n-Butyl phthalate	Not detected	ug/kg	200	8270C	05/10/12 22:20	PL	84-74-2	S
Benzaldehyde	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	100-52-7	
Benzo(a)anthracene	100	ug/kg	100	8270C	05/10/12 22:20	PL	56-55-3	
Benzo(a)pyrene	100	ug/kg	100	8270C	05/10/12 22:20	PL	50-32-8	
Benzo(b)fluoranthene	300	ug/kg	100	8270C	05/10/12 22:20	PL	205-99-2	p
Benzo(ghi)perylene	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	191-24-2	
Benzo(k)fluoranthene	300	ug/kg	100	8270C	05/10/12 22:20	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	105-60-2	
Carbazole	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	86-74-8	S
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	108-60-1	
Chrysene	200	ug/kg	100	8270C	05/10/12 22:20	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	534-52-1	S
Dibenzo(ah)anthracene	Not detected	ug/kg	200	8270C	05/10/12 22:20	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	8270C	05/10/12 22:20	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	8270C	05/10/12 22:20	PL	117-81-7	
Fluoranthene	300	ug/kg	100	8270C	05/10/12 22:20	PL	206-44-0	S
Fluorene	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	118-74-1	S
Hexachlorobutadiene	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	8270C	05/10/12 22:20	PL	3/4-Cresol	

S-Surrogate recovery outside of control limits

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.24 (continued)

Sample Tag: SB-A5.2-DUP10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	86-30-6	S
Naphthalene	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	8270C	05/10/12 22:20	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	87-86-5	S
Phenanthrene	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	85-01-8	S
Phenol	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	108-95-2	
Pyrene	300	ug/kg	100	8270C	05/10/12 22:20	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	100	8270C	05/10/12 22:20	PL	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	208-96-8	
Acetophenone	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	98-86-2	
Anthracene	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	120-12-7	S
Atrazine	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	1912-24-9	S
1,1'-Biphenyl	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	101-55-3	S
di-n-Butyl phthalate	Not detected	ug/kg	200	8270C	05/12/12 23:10	PL	84-74-2	S
Benzaldehyde	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	56-55-3	
Benzo(a)pyrene	100	ug/kg	100	8270C	05/12/12 23:10	PL	50-32-8	
Benzo(b)fluoranthene	200	ug/kg	100	8270C	05/12/12 23:10	PL	205-99-2	p
Benzo(ghi)perylene	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	191-24-2	
Benzo(k)fluoranthene	200	ug/kg	100	8270C	05/12/12 23:10	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	105-60-2	
Carbazole	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	86-74-8	S
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	108-60-1	
Chrysene	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	51-28-5	

S-Surrogate recovery outside of control limits

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.24 (continued)

Sample Tag: SB-A5.2-DUP10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
2,4-Dinitrotoluene	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	534-52-1	S
Dibenzo(ah)anthracene	Not detected	ug/kg	200	8270C	05/12/12 23:10	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	8270C	05/12/12 23:10	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	8270C	05/12/12 23:10	PL	117-81-7	
Fluoranthene	200	ug/kg	100	8270C	05/12/12 23:10	PL	206-44-0	S
Fluorene	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	118-74-1	S
Hexachlorobutadiene	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	8270C	05/12/12 23:10	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	86-30-6	S
Naphthalene	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	8270C	05/12/12 23:10	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	87-86-5	S
Phenanthrene	100	ug/kg	100	8270C	05/12/12 23:10	PL	85-01-8	S
Phenol	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	108-95-2	
Pyrene	200	ug/kg	100	8270C	05/12/12 23:10	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	100	8270C	05/12/12 23:10	PL	88-06-2	

S-Surrogate recovery outside of control limits



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.25

Sample Tag: SB-A5.2-NG115_11-12

Collected Date/Time: 05/04/2012 08:32

Matrix: Soil

COC Reference: 67642

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:45	EMR		
Extraction, PCB	Completed			3550B	05/10/12 16:21	ADB		
Mercury Digestion	Completed			7471A	05/14/12 10:35	JRH		
Metal Digestion	Completed			3050B	05/14/12 11:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/14/12 16:18	PER	7440-36-0	
Arsenic	0.69	mg/kg	0.10	6020	05/14/12 16:18	PER	7440-38-2	
Barium	30.7	mg/kg	1.0	6020	05/14/12 16:18	PER	7440-39-3	
Beryllium	0.22	mg/kg	0.21	6020	05/14/12 16:18	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	05/14/12 16:18	PER	7440-42-8	
Cadmium	0.10	mg/kg	0.10	6020	05/14/12 16:18	PER	7440-43-9	
Chromium	4.16	mg/kg	0.21	6020	05/14/12 16:18	PER	7440-47-3	
Cobalt	2.29	mg/kg	0.21	6020	05/14/12 16:18	PER	7440-48-4	
Copper	4.39	mg/kg	0.21	6020	05/14/12 16:18	PER	7440-50-8	
Lead	4.40	mg/kg	0.21	6020	05/14/12 16:18	PER	7439-92-1	
Manganese	224	mg/kg	0.21	6020	05/14/12 16:18	PER	7439-96-5	
Mercury	0.0171	mg/kg	0.0059	7471A	05/14/12 15:36	JRT	7439-97-6	
Nickel	9.08	mg/kg	0.21	6020	05/14/12 16:18	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/14/12 16:18	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 16:18	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/14/12 16:18	PER	7440-28-0	
Vanadium	6.65	mg/kg	0.21	6020	05/14/12 16:18	PER	7440-62-2	
Zinc	12.6	mg/kg	1.0	6020	05/14/12 16:18	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 14:32	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 14:32	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 14:32	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 14:32	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 14:32	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 14:32	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 14:32	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.25 (continued)

Sample Tag: SB-A5.2-NG115_11-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 16:07	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/10/12 16:07	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 16:07	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/10/12 16:07	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/10/12 16:07	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.25 (continued)

Sample Tag: SB-A5.2-NG115_11-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 16:07	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 16:07	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.26

Sample Tag: SB-A5.2-NG115_15-16

Collected Date/Time: 05/04/2012 08:45

Matrix: Soil

COC Reference: 67642

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:45	EMR		
Extraction, PCB	Completed			3550B	05/10/12 16:21	ADB		
Mercury Digestion	Completed			7471A	05/14/12 10:35	JRH		
Metal Digestion	Completed			3050B	05/14/12 11:00	PER		

Inorganics

Total Solids	84	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/14/12 16:20	PER	7440-36-0	
Arsenic	2.39	mg/kg	0.10	6020	05/14/12 16:20	PER	7440-38-2	
Barium	31.1	mg/kg	1.0	6020	05/14/12 16:20	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/14/12 16:20	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/14/12 16:20	PER	7440-42-8	
Cadmium	0.14	mg/kg	0.10	6020	05/14/12 16:20	PER	7440-43-9	
Chromium	3.22	mg/kg	0.21	6020	05/14/12 16:20	PER	7440-47-3	
Cobalt	3.64	mg/kg	0.21	6020	05/14/12 16:20	PER	7440-48-4	
Copper	11.4	mg/kg	0.21	6020	05/14/12 16:20	PER	7440-50-8	
Lead	5.80	mg/kg	0.21	6020	05/14/12 16:20	PER	7439-92-1	
Manganese	329	mg/kg	0.21	6020	05/14/12 16:20	PER	7439-96-5	
Mercury	0.0106	mg/kg	0.0060	7471A	05/14/12 15:39	JRT	7439-97-6	
Nickel	9.50	mg/kg	0.21	6020	05/14/12 16:20	PER	7440-02-0	
Selenium	0.25	mg/kg	0.21	6020	05/14/12 16:20	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 16:20	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/14/12 16:20	PER	7440-28-0	
Vanadium	5.79	mg/kg	0.21	6020	05/14/12 16:20	PER	7440-62-2	
Zinc	20.8	mg/kg	1.0	6020	05/14/12 16:20	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 14:43	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 14:43	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 14:43	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 14:43	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 14:43	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 14:43	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 14:43	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.26 (continued)

Sample Tag: SB-A5.2-NG115_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 16:40	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/10/12 16:40	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 16:40	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/10/12 16:40	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/10/12 16:40	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.26 (continued)

Sample Tag: SB-A5.2-NG115_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 16:40	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 16:40	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.27
Sample Tag: SB-A5.2-NG115_20-21
Collected Date/Time: 05/04/2012 08:55
Matrix: Soil
COC Reference: 67642

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:45	EMR		
Extraction, PCB	Completed			3550B	05/10/12 16:21	ADB		
Mercury Digestion	Completed			7471A	05/14/12 10:35	JRH		
Metal Digestion	Completed			3050B	05/14/12 11:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/14/12 16:22	PER	7440-36-0	
Arsenic	1.53	mg/kg	0.10	6020	05/14/12 16:22	PER	7440-38-2	
Barium	21.3	mg/kg	1.0	6020	05/14/12 16:22	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/14/12 16:22	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/14/12 16:22	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 16:22	PER	7440-43-9	
Chromium	2.03	mg/kg	0.20	6020	05/14/12 16:22	PER	7440-47-3	
Cobalt	2.21	mg/kg	0.20	6020	05/14/12 16:22	PER	7440-48-4	
Copper	7.59	mg/kg	0.20	6020	05/14/12 16:22	PER	7440-50-8	
Lead	3.71	mg/kg	0.20	6020	05/14/12 16:22	PER	7439-92-1	
Manganese	204	mg/kg	0.20	6020	05/14/12 16:22	PER	7439-96-5	
Mercury	0.0080	mg/kg	0.0054	7471A	05/14/12 15:41	JRT	7439-97-6	
Nickel	7.15	mg/kg	0.20	6020	05/14/12 16:22	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/14/12 16:22	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 16:22	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/14/12 16:22	PER	7440-28-0	
Vanadium	3.36	mg/kg	0.20	6020	05/14/12 16:22	PER	7440-62-2	
Zinc	10.2	mg/kg	1.0	6020	05/14/12 16:22	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 14:53	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 14:53	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 14:53	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 14:53	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 14:53	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 14:53	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 14:53	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.27 (continued)

Sample Tag: SB-A5.2-NG115_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 17:15	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/10/12 17:15	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 17:15	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/10/12 17:15	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/10/12 17:15	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.27 (continued)

Sample Tag: SB-A5.2-NG115_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 17:15	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 17:15	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.28
Sample Tag: SB-A5.2-NG115_24-25
Collected Date/Time: 05/04/2012 09:03
Matrix: Soil
COC Reference: 67642

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:45	EMR		
Extraction, PCB	Completed			3550B	05/10/12 16:21	ADB		
Mercury Digestion	Completed			7471A	05/14/12 10:35	JRH		
Metal Digestion	Completed			3050B	05/14/12 11:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/14/12 16:24	PER	7440-36-0	
Arsenic	2.41	mg/kg	0.10	6020	05/14/12 16:24	PER	7440-38-2	
Barium	22.2	mg/kg	1.0	6020	05/14/12 16:24	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/14/12 16:24	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/14/12 16:24	PER	7440-42-8	
Cadmium	0.13	mg/kg	0.10	6020	05/14/12 16:24	PER	7440-43-9	
Chromium	2.47	mg/kg	0.20	6020	05/14/12 16:24	PER	7440-47-3	
Cobalt	2.54	mg/kg	0.20	6020	05/14/12 16:24	PER	7440-48-4	
Copper	7.15	mg/kg	0.20	6020	05/14/12 16:24	PER	7440-50-8	
Lead	4.35	mg/kg	0.20	6020	05/14/12 16:24	PER	7439-92-1	
Manganese	242	mg/kg	0.20	6020	05/14/12 16:24	PER	7439-96-5	
Mercury	0.0093	mg/kg	0.0054	7471A	05/14/12 15:43	JRT	7439-97-6	
Nickel	7.82	mg/kg	0.20	6020	05/14/12 16:24	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/14/12 16:24	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 16:24	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/14/12 16:24	PER	7440-28-0	
Vanadium	4.09	mg/kg	0.20	6020	05/14/12 16:24	PER	7440-62-2	
Zinc	15.7	mg/kg	1.0	6020	05/14/12 16:24	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 15:04	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 15:04	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 15:04	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 15:04	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 15:04	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 15:04	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 15:04	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.28 (continued)

Sample Tag: SB-A5.2-NG115_24-25

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 17:48	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/10/12 17:48	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 17:48	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/10/12 17:48	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/10/12 17:48	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.28 (continued)

Sample Tag: SB-A5.2-NG115_24-25

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 17:48	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 17:48	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.29
Sample Tag: SB-A5.2-NB110_1-2
Collected Date/Time: 05/04/2012 09:22
Matrix: Soil
COC Reference: 67642

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:45	EMR		
Extraction, PCB	Completed			3550B	05/10/12 16:21	ADB		
Mercury Digestion	Completed			7471A	05/14/12 10:35	JRH		
Metal Digestion	Completed			3050B	05/14/12 12:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/14/12 16:47	PER	7440-36-0	
Arsenic	0.61	mg/kg	0.10	6020	05/14/12 16:47	PER	7440-38-2	
Barium	8.54	mg/kg	1.0	6020	05/14/12 16:47	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/14/12 16:47	PER	7440-41-7	
Boron	7.98	mg/kg	4.0	6020	05/14/12 16:47	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 16:47	PER	7440-43-9	
Chromium	1.00	mg/kg	0.20	6020	05/14/12 16:47	PER	7440-47-3	
Cobalt	4.74	mg/kg	0.20	6020	05/14/12 16:47	PER	7440-48-4	
Copper	1.57	mg/kg	0.20	6020	05/14/12 16:47	PER	7440-50-8	
Lead	2.04	mg/kg	0.20	6020	05/14/12 16:47	PER	7439-92-1	
Manganese	65.5	mg/kg	0.20	6020	05/14/12 16:47	PER	7439-96-5	
Mercury	0.0053	mg/kg	0.0053	7471A	05/14/12 15:45	JRT	7439-97-6	
Nickel	1.71	mg/kg	0.20	6020	05/14/12 16:47	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/14/12 16:47	PER	7782-49-2	
Silver	0.49	mg/kg	0.10	6020	05/14/12 16:47	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/14/12 16:47	PER	7440-28-0	
Vanadium	1.84	mg/kg	0.20	6020	05/14/12 16:47	PER	7440-62-2	
Zinc	2.47	mg/kg	1.0	6020	05/14/12 16:47	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 15:14	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 15:14	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 15:14	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 15:14	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 15:14	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 15:14	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 15:14	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.29 (continued)

Sample Tag: SB-A5.2-NB110_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 18:22	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/10/12 18:22	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 18:22	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/10/12 18:22	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/10/12 18:22	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.29 (continued)

Sample Tag: SB-A5.2-NB110_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 18:22	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 18:22	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.30
Sample Tag: SB-A5.2-NB110_6-7
Collected Date/Time: 05/04/2012 09:30
Matrix: Soil
COC Reference: 67642

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:45	EMR		
Extraction, PCB	Completed			3550B	05/10/12 16:21	ADB		
Mercury Digestion	Completed			7471A	05/14/12 13:20	JRH		
Metal Digestion	Completed			3050B	05/14/12 12:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/14/12 16:52	PER	7440-36-0	
Arsenic	0.51	mg/kg	0.10	6020	05/14/12 16:52	PER	7440-38-2	
Barium	10.6	mg/kg	1.0	6020	05/14/12 16:52	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/14/12 16:52	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/14/12 16:52	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 16:52	PER	7440-43-9	
Chromium	1.10	mg/kg	0.20	6020	05/14/12 16:52	PER	7440-47-3	
Cobalt	0.98	mg/kg	0.20	6020	05/14/12 16:52	PER	7440-48-4	
Copper	4.31	mg/kg	0.20	6020	05/14/12 16:52	PER	7440-50-8	
Lead	5.16	mg/kg	0.20	6020	05/14/12 16:52	PER	7439-92-1	
Manganese	129	mg/kg	0.20	6020	05/14/12 16:52	PER	7439-96-5	
Mercury	0.0076	mg/kg	0.0055	7471A	05/14/12 16:04	JRT	7439-97-6	
Nickel	3.61	mg/kg	0.20	6020	05/14/12 16:52	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/14/12 16:52	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 16:52	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/14/12 16:52	PER	7440-28-0	
Vanadium	2.30	mg/kg	0.20	6020	05/14/12 16:52	PER	7440-62-2	
Zinc	5.39	mg/kg	1.0	6020	05/14/12 16:52	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	5	8082A	05/11/12 15:25	JANB	12674-11-2	X
PCB-1242	Not detected	ug/kg	5	8082A	05/11/12 15:25	JANB	53469-21-9	X
PCB-1221	Not detected	ug/kg	5	8082A	05/11/12 15:25	JANB	11104-28-2	X
PCB-1232	Not detected	ug/kg	5	8082A	05/11/12 15:25	JANB	11141-16-5	X
PCB-1248	Not detected	ug/kg	5	8082A	05/11/12 15:25	JANB	12672-29-6	X
PCB-1254	Not detected	ug/kg	5	8082A	05/11/12 15:25	JANB	11097-69-1	X
PCB-1260	Not detected	ug/kg	5	8082A	05/11/12 15:25	JANB	11096-82-5	X

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	208-96-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.30 (continued)

Sample Tag: SB-A5.2-NB110_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	98-86-2	X
Anthracene	1,200	ug/kg	600	8270C	05/10/12 22:54	PL	120-12-7	X
Atrazine	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	1912-24-9	X
1,1'-Biphenyl	600	ug/kg	600	8270C	05/10/12 22:54	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	1,000	8270C	05/10/12 22:54	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	207-08-9	X
Butyl benzyl phthalate	38,600	ug/kg	600	8270C	05/10/12 22:54	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	105-60-2	X
Carbazole	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	108-60-1	X
Chrysene	600	ug/kg	600	8270C	05/10/12 22:54	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	1,000	8270C	05/10/12 22:54	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	1,000	8270C	05/10/12 22:54	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	1,000	8270C	05/10/12 22:54	PL	117-81-7	X
Fluoranthene	2,200	ug/kg	600	8270C	05/10/12 22:54	PL	206-44-0	X
Fluorene	6,800	ug/kg	600	8270C	05/10/12 22:54	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	193-39-5	X
Isophorone	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	1,000	8270C	05/10/12 22:54	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	88-74-4	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.30 (continued)

Sample Tag: SB-A5.2-NB110_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	1,000	8270C	05/10/12 22:54	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	87-86-5	X
Phenanthrene	26,300	ug/kg	600	8270C	05/10/12 22:54	PL	85-01-8	X
Phenol	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	108-95-2	X
Pyrene	2,200	ug/kg	600	8270C	05/10/12 22:54	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	600	8270C	05/10/12 22:54	PL	88-06-2	X
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	98-86-2	X
Anthracene	1,000	ug/kg	1,000	8270C	05/11/12 21:35	PL	120-12-7	X
Atrazine	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	05/11/12 21:35	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	207-08-9	X
Butyl benzyl phthalate	40,000	ug/kg	1,000	8270C	05/11/12 21:35	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	105-60-2	X
Carbazole	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	108-60-1	X
Chrysene	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	606-20-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.30 (continued)

Sample Tag: SB-A5.2-NB110_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
3,3'-Dichlorobenzidine	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	05/11/12 21:35	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	05/11/12 21:35	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	05/11/12 21:35	PL	117-81-7	X
Fluoranthene	2,000	ug/kg	1,000	8270C	05/11/12 21:35	PL	206-44-0	X
Fluorene	7,000	ug/kg	1,000	8270C	05/11/12 21:35	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	193-39-5	X
Isophorone	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	05/11/12 21:35	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	05/11/12 21:35	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	87-86-5	X
Phenanthrene	29,000	ug/kg	1,000	8270C	05/11/12 21:35	PL	85-01-8	X
Phenol	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	108-95-2	X
Pyrene	2,000	ug/kg	1,000	8270C	05/11/12 21:35	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	1,000	8270C	05/11/12 21:35	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.31
Sample Tag: SB-A5.2-NB110_10-11
Collected Date/Time: 05/04/2012 09:40
Matrix: Soil
COC Reference: 67642

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:45	EMR		
Extraction, PCB	Completed			3550B	05/10/12 16:21	ADB		
Mercury Digestion	Completed			7471A	05/14/12 13:20	JRH		
Metal Digestion	Completed			3050B	05/14/12 12:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/14/12 16:55	PER	7440-36-0	
Arsenic	1.12	mg/kg	0.10	6020	05/14/12 16:55	PER	7440-38-2	
Barium	28.9	mg/kg	1.0	6020	05/14/12 16:55	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/14/12 16:55	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/14/12 16:55	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 16:55	PER	7440-43-9	
Chromium	3.59	mg/kg	0.21	6020	05/14/12 16:55	PER	7440-47-3	
Cobalt	3.06	mg/kg	0.21	6020	05/14/12 16:55	PER	7440-48-4	
Copper	3.81	mg/kg	0.21	6020	05/14/12 16:55	PER	7440-50-8	
Lead	3.15	mg/kg	0.21	6020	05/14/12 16:55	PER	7439-92-1	
Manganese	236	mg/kg	0.21	6020	05/14/12 16:55	PER	7439-96-5	
Mercury	0.0125	mg/kg	0.0055	7471A	05/14/12 16:06	JRT	7439-97-6	
Nickel	9.28	mg/kg	0.21	6020	05/14/12 16:55	PER	7440-02-0	
Selenium	0.28	mg/kg	0.21	6020	05/14/12 16:55	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 16:55	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/14/12 16:55	PER	7440-28-0	
Vanadium	5.46	mg/kg	0.21	6020	05/14/12 16:55	PER	7440-62-2	
Zinc	9.23	mg/kg	1.0	6020	05/14/12 16:55	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 15:35	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 15:35	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 15:35	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 15:35	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 15:35	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 15:35	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 15:35	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	208-96-8	
Acetophenone	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.31 (continued)

Sample Tag: SB-A5.2-NB110_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	300	ug/kg	100	8270C	05/10/12 21:46	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	300	8270C	05/10/12 21:46	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	207-08-9	
Butyl benzyl phthalate	4,400	ug/kg	100	8270C	05/10/12 21:46	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	105-60-2	
Carbazole	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	108-60-1	
Chrysene	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	8270C	05/10/12 21:46	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	300	8270C	05/10/12 21:46	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	300	8270C	05/10/12 21:46	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	206-44-0	
Fluorene	800	ug/kg	100	8270C	05/10/12 21:46	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	300	8270C	05/10/12 21:46	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.31 (continued)

Sample Tag: SB-A5.2-NB110_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	86-30-6	
Naphthalene	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	300	8270C	05/10/12 21:46	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	87-86-5	
Phenanthrene	1,100	ug/kg	100	8270C	05/10/12 21:46	PL	85-01-8	
Phenol	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	108-95-2	
Pyrene	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	100	8270C	05/10/12 21:46	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.32
Sample Tag: SB-A5.2-NB110_15-16
Collected Date/Time: 05/04/2012 09:50
Matrix: Soil
COC Reference: 67642

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:45	EMR		
Extraction, PCB	Completed			3550B	05/10/12 16:21	ADB		
Mercury Digestion	Completed			7471A	05/14/12 13:20	JRH		
Metal Digestion	Completed			3050B	05/14/12 12:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.22	6020	05/14/12 16:57	PER	7440-36-0	
Arsenic	7.07	mg/kg	0.11	6020	05/14/12 16:57	PER	7440-38-2	
Barium	17.2	mg/kg	1.1	6020	05/14/12 16:57	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.22	6020	05/14/12 16:57	PER	7440-41-7	
Boron	Not detected	mg/kg	4.4	6020	05/14/12 16:57	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.11	6020	05/14/12 16:57	PER	7440-43-9	
Chromium	2.23	mg/kg	0.22	6020	05/14/12 16:57	PER	7440-47-3	
Cobalt	4.63	mg/kg	0.22	6020	05/14/12 16:57	PER	7440-48-4	
Copper	8.12	mg/kg	0.22	6020	05/14/12 16:57	PER	7440-50-8	
Lead	4.06	mg/kg	0.22	6020	05/14/12 16:57	PER	7439-92-1	
Manganese	271	mg/kg	0.22	6020	05/14/12 16:57	PER	7439-96-5	
Mercury	0.0122	mg/kg	0.0058	7471A	05/14/12 16:09	JRT	7439-97-6	
Nickel	10.3	mg/kg	0.22	6020	05/14/12 16:57	PER	7440-02-0	
Selenium	0.40	mg/kg	0.22	6020	05/14/12 16:57	PER	7782-49-2	
Silver	Not detected	mg/kg	0.11	6020	05/14/12 16:57	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.22	6020	05/14/12 16:57	PER	7440-28-0	
Vanadium	3.90	mg/kg	0.22	6020	05/14/12 16:57	PER	7440-62-2	
Zinc	13.5	mg/kg	1.1	6020	05/14/12 16:57	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 15:46	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 15:46	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 15:46	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 15:46	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 15:46	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 15:46	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 15:46	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.32 (continued)

Sample Tag: SB-A5.2-NB110_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 18:56	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/10/12 18:56	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 18:56	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/10/12 18:56	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/10/12 18:56	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.32 (continued)

Sample Tag: SB-A5.2-NB110_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 18:56	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 18:56	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.33
Sample Tag: SB-A5.2-NB110_24-25
Collected Date/Time: 05/04/2012 10:05
Matrix: Soil
COC Reference: 67642

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:45	EMR		
Extraction, PCB	Completed			3550B	05/11/12 14:06	ADB		
Mercury Digestion	Completed			7471A	05/14/12 13:20	JRH		
Metal Digestion	Completed			3050B	05/14/12 12:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/14/12 16:59	PER	7440-36-0	
Arsenic	2.34	mg/kg	0.10	6020	05/14/12 16:59	PER	7440-38-2	
Barium	20.1	mg/kg	1.0	6020	05/14/12 16:59	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/14/12 16:59	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/14/12 16:59	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 16:59	PER	7440-43-9	
Chromium	2.34	mg/kg	0.20	6020	05/14/12 16:59	PER	7440-47-3	
Cobalt	2.28	mg/kg	0.20	6020	05/14/12 16:59	PER	7440-48-4	
Copper	6.45	mg/kg	0.20	6020	05/14/12 16:59	PER	7440-50-8	
Lead	3.62	mg/kg	0.20	6020	05/14/12 16:59	PER	7439-92-1	
Manganese	197	mg/kg	0.20	6020	05/14/12 16:59	PER	7439-96-5	
Mercury	0.0105	mg/kg	0.0053	7471A	05/14/12 16:11	JRT	7439-97-6	
Nickel	6.88	mg/kg	0.20	6020	05/14/12 16:59	PER	7440-02-0	
Selenium	0.22	mg/kg	0.20	6020	05/14/12 16:59	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 16:59	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/14/12 16:59	PER	7440-28-0	
Vanadium	3.72	mg/kg	0.20	6020	05/14/12 16:59	PER	7440-62-2	
Zinc	11.2	mg/kg	1.0	6020	05/14/12 16:59	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 16:38	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 16:38	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 16:38	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 16:38	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 16:38	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 16:38	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 16:38	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.33 (continued)

Sample Tag: SB-A5.2-NB110_24-25

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 19:29	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/10/12 19:29	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 19:29	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/10/12 19:29	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/10/12 19:29	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.33 (continued)

Sample Tag: SB-A5.2-NB110_24-25

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 19:29	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 19:29	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.34
Sample Tag: SB-A5.2-NB110_19-20
Collected Date/Time: 05/04/2012 09:57
Matrix: Soil
COC Reference: 67642

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:45	EMR		
Extraction, PCB	Completed			3550B	05/11/12 14:06	ADB		
Mercury Digestion	Completed			7471A	05/14/12 13:20	JRH		
Metal Digestion	Completed			3050B	05/14/12 12:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/14/12 17:01	PER	7440-36-0	
Arsenic	1.32	mg/kg	0.10	6020	05/14/12 17:01	PER	7440-38-2	
Barium	38.3	mg/kg	1.0	6020	05/14/12 17:01	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/14/12 17:01	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/14/12 17:01	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 17:01	PER	7440-43-9	
Chromium	3.60	mg/kg	0.21	6020	05/14/12 17:01	PER	7440-47-3	
Cobalt	3.13	mg/kg	0.21	6020	05/14/12 17:01	PER	7440-48-4	
Copper	14.4	mg/kg	0.21	6020	05/14/12 17:01	PER	7440-50-8	
Lead	4.50	mg/kg	0.21	6020	05/14/12 17:01	PER	7439-92-1	
Manganese	116	mg/kg	0.21	6020	05/14/12 17:01	PER	7439-96-5	
Mercury	0.0225	mg/kg	0.0057	7471A	05/14/12 16:13	JRT	7439-97-6	
Nickel	7.50	mg/kg	0.21	6020	05/14/12 17:01	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/14/12 17:01	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 17:01	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/14/12 17:01	PER	7440-28-0	
Vanadium	4.47	mg/kg	0.21	6020	05/14/12 17:01	PER	7440-62-2	
Zinc	13.5	mg/kg	1.0	6020	05/14/12 17:01	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 16:49	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 16:49	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 16:49	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 16:49	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 16:49	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 16:49	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 16:49	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.34 (continued)

Sample Tag: SB-A5.2-NB110_19-20

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/11/12 19:23	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/11/12 19:23	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/11/12 19:23	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/11/12 19:23	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/11/12 19:23	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.34 (continued)

Sample Tag: SB-A5.2-NB110_19-20

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/11/12 19:23	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/11/12 19:23	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.35
Sample Tag: SB-A5.2-NG105_2-3
Collected Date/Time: 05/04/2012 10:48
Matrix: Soil
COC Reference: 67642

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:45	EMR		
Extraction, PCB	Completed			3550B	05/11/12 14:06	ADB		
Mercury Digestion	Completed			7471A	05/14/12 13:20	JRH		
Metal Digestion	Completed			3050B	05/14/12 12:00	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.22	6020	05/14/12 17:03	PER	7440-36-0	
Arsenic	1.16	mg/kg	0.11	6020	05/14/12 17:03	PER	7440-38-2	
Barium	25.7	mg/kg	1.1	6020	05/14/12 17:03	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.22	6020	05/14/12 17:03	PER	7440-41-7	
Boron	Not detected	mg/kg	4.4	6020	05/14/12 17:03	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.11	6020	05/14/12 17:03	PER	7440-43-9	
Chromium	5.55	mg/kg	0.22	6020	05/14/12 17:03	PER	7440-47-3	
Cobalt	2.56	mg/kg	0.22	6020	05/14/12 17:03	PER	7440-48-4	
Copper	5.82	mg/kg	0.22	6020	05/14/12 17:03	PER	7440-50-8	
Lead	5.91	mg/kg	0.22	6020	05/14/12 17:03	PER	7439-92-1	
Manganese	155	mg/kg	0.22	6020	05/14/12 17:03	PER	7439-96-5	
Mercury	0.0105	mg/kg	0.006	7471A	05/14/12 16:15	JRT	7439-97-6	
Nickel	5.75	mg/kg	0.22	6020	05/14/12 17:03	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.22	6020	05/14/12 17:03	PER	7782-49-2	
Silver	Not detected	mg/kg	0.11	6020	05/14/12 17:03	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.22	6020	05/14/12 17:03	PER	7440-28-0	
Vanadium	4.95	mg/kg	0.22	6020	05/14/12 17:03	PER	7440-62-2	
Zinc	9.37	mg/kg	1.1	6020	05/14/12 17:03	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 16:59	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 16:59	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 16:59	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 16:59	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 16:59	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 16:59	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 16:59	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.35 (continued)

Sample Tag: SB-A5.2-NG105_2-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/15/12 02:12	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	100-52-7	
Benzo(a)anthracene	120	ug/kg	40	8270C	05/15/12 02:12	PL	56-55-3	
Benzo(a)pyrene	100	ug/kg	40	8270C	05/15/12 02:12	PL	50-32-8	
Benzo(b)fluoranthene	200	ug/kg	40	8270C	05/15/12 02:12	PL	205-99-2	p
Benzo(ghi)perylene	70	ug/kg	40	8270C	05/15/12 02:12	PL	191-24-2	
Benzo(k)fluoranthene	200	ug/kg	40	8270C	05/15/12 02:12	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	108-60-1	
Chrysene	130	ug/kg	40	8270C	05/15/12 02:12	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/15/12 02:12	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/15/12 02:12	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/15/12 02:12	PL	117-81-7	
Fluoranthene	210	ug/kg	40	8270C	05/15/12 02:12	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	80	ug/kg	40	8270C	05/15/12 02:12	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/15/12 02:12	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	88-75-5	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.35 (continued)

Sample Tag: SB-A5.2-NG105_2-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/15/12 02:12	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	87-86-5	
Phenanthrene	110	ug/kg	40	8270C	05/15/12 02:12	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	108-95-2	
Pyrene	180	ug/kg	40	8270C	05/15/12 02:12	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 02:12	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.36
Sample Tag: SB-A5.2-NG105_7-8
Collected Date/Time: 05/04/2012 10:59
Matrix: Soil
COC Reference: 67642

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:45	EMR		
Extraction, PCB	Completed			3550B	05/10/12 16:21	ADB		
Mercury Digestion	Completed			7471A	05/14/12 13:20	JRH		
Metal Digestion	Completed			3050B	05/15/12 09:00	PER		

Inorganics

Total Solids	84	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.22	6020	05/15/12 13:59	PER	7440-36-0	
Arsenic	1.11	mg/kg	0.11	6020	05/15/12 13:59	PER	7440-38-2	
Barium	41.9	mg/kg	1.1	6020	05/15/12 13:59	PER	7440-39-3	
Beryllium	0.26	mg/kg	0.22	6020	05/15/12 13:59	PER	7440-41-7	
Boron	Not detected	mg/kg	4.5	6020	05/15/12 13:59	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.11	6020	05/15/12 13:59	PER	7440-43-9	
Chromium	4.21	mg/kg	0.22	6020	05/15/12 13:59	PER	7440-47-3	
Cobalt	4.48	mg/kg	0.22	6020	05/15/12 13:59	PER	7440-48-4	
Copper	4.52	mg/kg	0.22	6020	05/15/12 13:59	PER	7440-50-8	
Lead	4.58	mg/kg	0.22	6020	05/15/12 13:59	PER	7439-92-1	
Manganese	255	mg/kg	0.22	6020	05/15/12 13:59	PER	7439-96-5	
Mercury	0.0212	mg/kg	0.0059	7471A	05/14/12 16:22	JRT	7439-97-6	
Nickel	8.87	mg/kg	0.22	6020	05/15/12 13:59	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.22	6020	05/15/12 13:59	PER	7782-49-2	
Silver	Not detected	mg/kg	0.11	6020	05/15/12 13:59	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.22	6020	05/15/12 13:59	PER	7440-28-0	
Vanadium	7.71	mg/kg	0.22	6020	05/15/12 13:59	PER	7440-62-2	
Zinc	10.9	mg/kg	1.1	6020	05/15/12 13:59	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 12:21	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 12:21	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 12:21	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 12:21	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 12:21	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 12:21	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 12:21	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.36 (continued)

Sample Tag: SB-A5.2-NG105_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 20:03	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/10/12 20:03	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 20:03	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/10/12 20:03	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/10/12 20:03	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.36 (continued)

Sample Tag: SB-A5.2-NG105_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/10/12 20:03	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 20:03	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.37
Sample Tag: SB-A5.2-NG105_7-8 MS
Collected Date/Time: 05/04/2012 10:59
Matrix: Soil
COC Reference: 67642

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:45	EMR		
Extraction, PCB	Completed			3550B	05/10/12 16:21	ADB		
Mercury Digestion	Completed			7471A	05/14/12 13:20	JRH		
Metal Digestion	Completed			3050B	05/15/12 09:00	PER		

Inorganics

Total Solids	84	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	21.7	mg/kg	0.22	6020	05/15/12 14:02	PER	7440-36-0	
Arsenic	24.1	mg/kg	0.11	6020	05/15/12 14:02	PER	7440-38-2	
Barium	64.1	mg/kg	1.1	6020	05/15/12 14:02	PER	7440-39-3	
Beryllium	21.9	mg/kg	0.22	6020	05/15/12 14:02	PER	7440-41-7	
Boron	21.4	mg/kg	4.5	6020	05/15/12 14:02	PER	7440-42-8	
Cadmium	22.2	mg/kg	0.11	6020	05/15/12 14:02	PER	7440-43-9	
Chromium	27.5	mg/kg	0.22	6020	05/15/12 14:02	PER	7440-47-3	
Cobalt	27.7	mg/kg	0.22	6020	05/15/12 14:02	PER	7440-48-4	
Copper	25.2	mg/kg	0.22	6020	05/15/12 14:02	PER	7440-50-8	
Lead	25.2	mg/kg	0.22	6020	05/15/12 14:02	PER	7439-92-1	
Manganese	282	mg/kg	0.22	6020	05/15/12 14:02	PER	7439-96-5	
Mercury	0.1404	mg/kg	0.0059	7471A	05/14/12 16:24	JRT	7439-97-6	
Nickel	31.6	mg/kg	0.22	6020	05/15/12 14:02	PER	7440-02-0	
Selenium	23.7	mg/kg	0.22	6020	05/15/12 14:02	PER	7782-49-2	
Silver	21.2	mg/kg	0.11	6020	05/15/12 14:02	PER	7440-22-4	
Thallium	21.0	mg/kg	0.22	6020	05/15/12 14:02	PER	7440-28-0	
Vanadium	32.1	mg/kg	0.22	6020	05/15/12 14:02	PER	7440-62-2	
Zinc	31.2	mg/kg	1.1	6020	05/15/12 14:02	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	30	ug/kg	3	8082A	05/11/12 12:32	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 12:32	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 12:32	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 12:32	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 12:32	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 12:32	JANB	11097-69-1	
PCB-1260	30	ug/kg	3	8082A	05/11/12 12:32	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	1,410	ug/kg	40	8270C	05/10/12 20:37	PL	83-32-9	1
Acenaphthylene	1,470	ug/kg	40	8270C	05/10/12 20:37	PL	208-96-8	1

1-Sample spiked at 1.98 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.37 (continued)

Sample Tag: SB-A5.2-NG105_7-8 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	1,200	ug/kg	40	8270C	05/10/12 20:37	PL	98-86-2	1
Anthracene	1,570	ug/kg	40	8270C	05/10/12 20:37	PL	120-12-7	1
Atrazine	1,640	ug/kg	40	8270C	05/10/12 20:37	PL	1912-24-9	1
1,1'-Biphenyl	1,430	ug/kg	40	8270C	05/10/12 20:37	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,490	ug/kg	40	8270C	05/10/12 20:37	PL	101-55-3	1
di-n-Butyl phthalate	1,660	ug/kg	80	8270C	05/10/12 20:37	PL	84-74-2	1
Benzaldehyde	960	ug/kg	40	8270C	05/10/12 20:37	PL	100-52-7	1
Benzo(a)anthracene	1,520	ug/kg	40	8270C	05/10/12 20:37	PL	56-55-3	1
Benzo(a)pyrene	1,430	ug/kg	40	8270C	05/10/12 20:37	PL	50-32-8	1
Benzo(b)fluoranthene	1,630	ug/kg	40	8270C	05/10/12 20:37	PL	205-99-2	1
Benzo(ghi)perylene	970	ug/kg	40	8270C	05/10/12 20:37	PL	191-24-2	1
Benzo(k)fluoranthene	1,590	ug/kg	40	8270C	05/10/12 20:37	PL	207-08-9	1
Butyl benzyl phthalate	1,580	ug/kg	40	8270C	05/10/12 20:37	PL	85-68-7	1
2-Chloronaphthalene	1,400	ug/kg	40	8270C	05/10/12 20:37	PL	91-58-7	1
2-Chlorophenol	1,200	ug/kg	40	8270C	05/10/12 20:37	PL	95-57-8	1
4-Chloro-3-methylphenol	1,390	ug/kg	40	8270C	05/10/12 20:37	PL	59-50-7	1
4-Chloroaniline	1,230	ug/kg	40	8270C	05/10/12 20:37	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,540	ug/kg	40	8270C	05/10/12 20:37	PL	7005-72-3	1
Caprolactam	1,460	ug/kg	40	8270C	05/10/12 20:37	PL	105-60-2	1
Carbazole	1,610	ug/kg	40	8270C	05/10/12 20:37	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,230	ug/kg	40	8270C	05/10/12 20:37	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,020	ug/kg	40	8270C	05/10/12 20:37	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	990	ug/kg	40	8270C	05/10/12 20:37	PL	108-60-1	1
Chrysene	1,580	ug/kg	40	8270C	05/10/12 20:37	PL	218-01-9	1
2,4-Dichlorophenol	1,400	ug/kg	40	8270C	05/10/12 20:37	PL	120-83-2	1
2,4-Dimethylphenol	1,270	ug/kg	40	8270C	05/10/12 20:37	PL	105-67-9	1
2,4-Dinitrophenol	640	ug/kg	40	8270C	05/10/12 20:37	PL	51-28-5	1
2,4-Dinitrotoluene	1,620	ug/kg	40	8270C	05/10/12 20:37	PL	121-14-2	1
2,6-Dinitrotoluene	1,590	ug/kg	40	8270C	05/10/12 20:37	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,680	ug/kg	40	8270C	05/10/12 20:37	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,170	ug/kg	40	8270C	05/10/12 20:37	PL	534-52-1	1
Dibenzo(ah)anthracene	1,130	ug/kg	80	8270C	05/10/12 20:37	PL	53-70-3	1
Dibenzofuran	1,540	ug/kg	40	8270C	05/10/12 20:37	PL	132-64-9	1
Diethyl phthalate	1,610	ug/kg	80	8270C	05/10/12 20:37	PL	84-66-2	1
Dimethyl phthalate	1,570	ug/kg	40	8270C	05/10/12 20:37	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	1,630	ug/kg	80	8270C	05/10/12 20:37	PL	117-81-7	1
Fluoranthene	1,650	ug/kg	40	8270C	05/10/12 20:37	PL	206-44-0	1
Fluorene	1,550	ug/kg	40	8270C	05/10/12 20:37	PL	86-73-7	1
Hexachlorobenzene	1,400	ug/kg	40	8270C	05/10/12 20:37	PL	118-74-1	1
Hexachlorobutadiene	1,260	ug/kg	40	8270C	05/10/12 20:37	PL	87-68-3	1
Hexachlorocyclopentadiene	780	ug/kg	40	8270C	05/10/12 20:37	PL	77-47-4	1
Hexachloroethane	1,030	ug/kg	40	8270C	05/10/12 20:37	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,120	ug/kg	40	8270C	05/10/12 20:37	PL	193-39-5	1
Isophorone	1,210	ug/kg	40	8270C	05/10/12 20:37	PL	78-59-1	1
2-Methylnaphthalene	1,320	ug/kg	40	8270C	05/10/12 20:37	PL	91-57-6	1
2-Methylphenol	1,190	ug/kg	40	8270C	05/10/12 20:37	PL	95-48-7	1
3-, 4-Methylphenol	2,470	ug/kg	80	8270C	05/10/12 20:37	PL	3/4-Cresol	1
2-Nitroaniline	1,530	ug/kg	40	8270C	05/10/12 20:37	PL	88-74-4	1

1-Sample spiked at 1.98 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.37 (continued)

Sample Tag: SB-A5.2-NG105_7-8 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	1,300	ug/kg	40	8270C	05/10/12 20:37	PL	88-75-5	1
3-Nitroaniline	1,420	ug/kg	40	8270C	05/10/12 20:37	PL	99-09-2	1
4-Nitroaniline	1,660	ug/kg	40	8270C	05/10/12 20:37	PL	100-01-6	1
4-Nitrophenol	1,080	ug/kg	40	8270C	05/10/12 20:37	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,120	ug/kg	40	8270C	05/10/12 20:37	PL	621-64-7	1
N-Nitrosodiphenylamine	1,330	ug/kg	40	8270C	05/10/12 20:37	PL	86-30-6	1
Naphthalene	1,290	ug/kg	40	8270C	05/10/12 20:37	PL	91-20-3	1
Nitrobenzene	1,220	ug/kg	40	8270C	05/10/12 20:37	PL	98-95-3	1
di-n-Octyl phthalate	1,760	ug/kg	80	8270C	05/10/12 20:37	PL	117-84-0	1
Pentachlorophenol	1,120	ug/kg	40	8270C	05/10/12 20:37	PL	87-86-5	1
Phenanthrene	1,530	ug/kg	40	8270C	05/10/12 20:37	PL	85-01-8	1
Phenol	1,140	ug/kg	40	8270C	05/10/12 20:37	PL	108-95-2	1
Pyrene	1,560	ug/kg	40	8270C	05/10/12 20:37	PL	129-00-0	1
2,4,5-Trichlorophenol	1,610	ug/kg	40	8270C	05/10/12 20:37	PL	95-95-4	1
2,4,6-Trichlorophenol	1,500	ug/kg	40	8270C	05/10/12 20:37	PL	88-06-2	1

1-Sample spiked at 1.98 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.38

Sample Tag: SB-A5.2-NG105_7-8 MSD

Collected Date/Time: 05/04/2012 10:59

Matrix: Soil

COC Reference: 67642

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:45	EMR		
Extraction, PCB	Completed			3550B	05/10/12 16:21	ADB		
Mercury Digestion	Completed			7471A	05/14/12 13:20	JRH		
Metal Digestion	Completed			3050B	05/15/12 09:00	PER		

Inorganics

Total Solids	80	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	22.0	mg/kg	0.22	6020	05/15/12 14:11	PER	7440-36-0	
Arsenic	23.5	mg/kg	0.11	6020	05/15/12 14:11	PER	7440-38-2	
Barium	64.7	mg/kg	1.1	6020	05/15/12 14:11	PER	7440-39-3	
Beryllium	21.4	mg/kg	0.22	6020	05/15/12 14:11	PER	7440-41-7	
Boron	21.1	mg/kg	4.5	6020	05/15/12 14:11	PER	7440-42-8	
Cadmium	22.3	mg/kg	0.11	6020	05/15/12 14:11	PER	7440-43-9	
Chromium	26.9	mg/kg	0.22	6020	05/15/12 14:11	PER	7440-47-3	
Cobalt	27.5	mg/kg	0.22	6020	05/15/12 14:11	PER	7440-48-4	
Copper	24.9	mg/kg	0.22	6020	05/15/12 14:11	PER	7440-50-8	
Lead	25.2	mg/kg	0.22	6020	05/15/12 14:11	PER	7439-92-1	
Manganese	275	mg/kg	0.22	6020	05/15/12 14:11	PER	7439-96-5	
Mercury	0.1504	mg/kg	0.0062	7471A	05/14/12 16:27	JRT	7439-97-6	
Nickel	31.1	mg/kg	0.22	6020	05/15/12 14:11	PER	7440-02-0	
Selenium	22.8	mg/kg	0.22	6020	05/15/12 14:11	PER	7782-49-2	
Silver	21.1	mg/kg	0.11	6020	05/15/12 14:11	PER	7440-22-4	
Thallium	21.2	mg/kg	0.22	6020	05/15/12 14:11	PER	7440-28-0	
Vanadium	31.1	mg/kg	0.22	6020	05/15/12 14:11	PER	7440-62-2	
Zinc	31.2	mg/kg	1.1	6020	05/15/12 14:11	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	30	ug/kg	3	8082A	05/11/12 12:42	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 12:42	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 12:42	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 12:42	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 12:42	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 12:42	JANB	11097-69-1	
PCB-1260	30	ug/kg	3	8082A	05/11/12 12:42	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,890	ug/kg	40	8270C	05/10/12 21:12	PL	83-32-9	1
Acenaphthylene	1,970	ug/kg	40	8270C	05/10/12 21:12	PL	208-96-8	1

1-Sample spiked at 2.08 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.38 (continued)

Sample Tag: SB-A5.2-NG105_7-8 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	1,740	ug/kg	40	8270C	05/10/12 21:12	PL	98-86-2	1
Anthracene	1,980	ug/kg	40	8270C	05/10/12 21:12	PL	120-12-7	1
Atrazine	2,100	ug/kg	40	8270C	05/10/12 21:12	PL	1912-24-9	1
1,1'-Biphenyl	1,950	ug/kg	40	8270C	05/10/12 21:12	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,940	ug/kg	40	8270C	05/10/12 21:12	PL	101-55-3	1
di-n-Butyl phthalate	2,070	ug/kg	80	8270C	05/10/12 21:12	PL	84-74-2	1
Benzaldehyde	1,460	ug/kg	40	8270C	05/10/12 21:12	PL	100-52-7	1
Benzo(a)anthracene	1,940	ug/kg	40	8270C	05/10/12 21:12	PL	56-55-3	1
Benzo(a)pyrene	1,810	ug/kg	40	8270C	05/10/12 21:12	PL	50-32-8	1
Benzo(b)fluoranthene	2,040	ug/kg	40	8270C	05/10/12 21:12	PL	205-99-2	1
Benzo(ghi)perylene	1,240	ug/kg	40	8270C	05/10/12 21:12	PL	191-24-2	1
Benzo(k)fluoranthene	2,040	ug/kg	40	8270C	05/10/12 21:12	PL	207-08-9	1
Butyl benzyl phthalate	2,020	ug/kg	40	8270C	05/10/12 21:12	PL	85-68-7	1
2-Chloronaphthalene	1,930	ug/kg	40	8270C	05/10/12 21:12	PL	91-58-7	1
2-Chlorophenol	1,770	ug/kg	40	8270C	05/10/12 21:12	PL	95-57-8	1
4-Chloro-3-methylphenol	1,900	ug/kg	40	8270C	05/10/12 21:12	PL	59-50-7	1
4-Chloroaniline	1,740	ug/kg	40	8270C	05/10/12 21:12	PL	106-47-8	1
4-Chlorophenyl phenyl ether	2,030	ug/kg	40	8270C	05/10/12 21:12	PL	7005-72-3	1
Caprolactam	1,940	ug/kg	40	8270C	05/10/12 21:12	PL	105-60-2	1
Carbazole	2,060	ug/kg	40	8270C	05/10/12 21:12	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,760	ug/kg	40	8270C	05/10/12 21:12	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,520	ug/kg	40	8270C	05/10/12 21:12	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,440	ug/kg	40	8270C	05/10/12 21:12	PL	108-60-1	1
Chrysene	2,000	ug/kg	40	8270C	05/10/12 21:12	PL	218-01-9	1
2,4-Dichlorophenol	1,980	ug/kg	40	8270C	05/10/12 21:12	PL	120-83-2	1
2,4-Dimethylphenol	1,790	ug/kg	40	8270C	05/10/12 21:12	PL	105-67-9	1
2,4-Dinitrophenol	910	ug/kg	40	8270C	05/10/12 21:12	PL	51-28-5	1
2,4-Dinitrotoluene	2,150	ug/kg	40	8270C	05/10/12 21:12	PL	121-14-2	1
2,6-Dinitrotoluene	2,160	ug/kg	40	8270C	05/10/12 21:12	PL	606-20-2	1
3,3'-Dichlorobenzidine	2,160	ug/kg	40	8270C	05/10/12 21:12	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,600	ug/kg	40	8270C	05/10/12 21:12	PL	534-52-1	1
Dibenzo(ah)anthracene	1,450	ug/kg	80	8270C	05/10/12 21:12	PL	53-70-3	1
Dibenzofuran	2,080	ug/kg	40	8270C	05/10/12 21:12	PL	132-64-9	1
Diethyl phthalate	2,100	ug/kg	80	8270C	05/10/12 21:12	PL	84-66-2	1
Dimethyl phthalate	2,110	ug/kg	40	8270C	05/10/12 21:12	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	2,090	ug/kg	80	8270C	05/10/12 21:12	PL	117-81-7	1
Fluoranthene	2,080	ug/kg	40	8270C	05/10/12 21:12	PL	206-44-0	1
Fluorene	2,030	ug/kg	40	8270C	05/10/12 21:12	PL	86-73-7	1
Hexachlorobenzene	1,840	ug/kg	40	8270C	05/10/12 21:12	PL	118-74-1	1
Hexachlorobutadiene	1,810	ug/kg	40	8270C	05/10/12 21:12	PL	87-68-3	1
Hexachlorocyclopentadiene	1,130	ug/kg	40	8270C	05/10/12 21:12	PL	77-47-4	1
Hexachloroethane	1,530	ug/kg	40	8270C	05/10/12 21:12	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,420	ug/kg	40	8270C	05/10/12 21:12	PL	193-39-5	1
Isophorone	1,720	ug/kg	40	8270C	05/10/12 21:12	PL	78-59-1	1
2-Methylnaphthalene	1,820	ug/kg	40	8270C	05/10/12 21:12	PL	91-57-6	1
2-Methylphenol	1,720	ug/kg	40	8270C	05/10/12 21:12	PL	95-48-7	1
3-, 4-Methylphenol	3,520	ug/kg	80	8270C	05/10/12 21:12	PL	3/4-Cresol	1
2-Nitroaniline	2,130	ug/kg	40	8270C	05/10/12 21:12	PL	88-74-4	1

1-Sample spiked at 2.08 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.38 (continued)

Sample Tag: SB-A5.2-NG105_7-8 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	1,890	ug/kg	40	8270C	05/10/12 21:12	PL	88-75-5	1
3-Nitroaniline	1,940	ug/kg	40	8270C	05/10/12 21:12	PL	99-09-2	1
4-Nitroaniline	2,250	ug/kg	40	8270C	05/10/12 21:12	PL	100-01-6	1
4-Nitrophenol	1,500	ug/kg	40	8270C	05/10/12 21:12	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,630	ug/kg	40	8270C	05/10/12 21:12	PL	621-64-7	1
N-Nitrosodiphenylamine	1,690	ug/kg	40	8270C	05/10/12 21:12	PL	86-30-6	1
Naphthalene	1,830	ug/kg	40	8270C	05/10/12 21:12	PL	91-20-3	1
Nitrobenzene	1,780	ug/kg	40	8270C	05/10/12 21:12	PL	98-95-3	1
di-n-Octyl phthalate	2,250	ug/kg	80	8270C	05/10/12 21:12	PL	117-84-0	1
Pentachlorophenol	1,530	ug/kg	40	8270C	05/10/12 21:12	PL	87-86-5	1
Phenanthrene	1,940	ug/kg	40	8270C	05/10/12 21:12	PL	85-01-8	1
Phenol	1,660	ug/kg	40	8270C	05/10/12 21:12	PL	108-95-2	1
Pyrene	1,980	ug/kg	40	8270C	05/10/12 21:12	PL	129-00-0	1
2,4,5-Trichlorophenol	2,190	ug/kg	40	8270C	05/10/12 21:12	PL	95-95-4	1
2,4,6-Trichlorophenol	2,110	ug/kg	40	8270C	05/10/12 21:12	PL	88-06-2	1

1-Sample spiked at 2.08 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.39

Sample Tag: SB-A5.2-NZ144_18-19

Collected Date/Time: 05/04/2012 13:28

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:45	EMR		
Extraction, PCB	Completed			3550B	05/10/12 16:21	ADB		
Mercury Digestion	Completed			7471A	05/14/12 13:20	JRH		
Metal Digestion	Completed			3050B	05/14/12 12:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/14/12 17:06	PER	7440-36-0	
Arsenic	1.92	mg/kg	0.10	6020	05/14/12 17:06	PER	7440-38-2	
Barium	24.6	mg/kg	1.0	6020	05/14/12 17:06	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/14/12 17:06	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/14/12 17:06	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 17:06	PER	7440-43-9	
Chromium	2.88	mg/kg	0.21	6020	05/14/12 17:06	PER	7440-47-3	
Cobalt	2.75	mg/kg	0.21	6020	05/14/12 17:06	PER	7440-48-4	
Copper	7.52	mg/kg	0.21	6020	05/14/12 17:06	PER	7440-50-8	
Lead	3.71	mg/kg	0.21	6020	05/14/12 17:06	PER	7439-92-1	
Manganese	224	mg/kg	0.21	6020	05/14/12 17:06	PER	7439-96-5	
Mercury	0.0086	mg/kg	0.0053	7471A	05/14/12 16:18	JRT	7439-97-6	
Nickel	8.01	mg/kg	0.21	6020	05/14/12 17:06	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/14/12 17:06	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 17:06	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/14/12 17:06	PER	7440-28-0	
Vanadium	4.62	mg/kg	0.21	6020	05/14/12 17:06	PER	7440-62-2	
Zinc	11.1	mg/kg	1.0	6020	05/14/12 17:06	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 15:56	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 15:56	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 15:56	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 15:56	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 15:56	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 15:56	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 15:56	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.39 (continued)

Sample Tag: SB-A5.2-NZ144_18-19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/15/12 02:41	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/15/12 02:41	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/15/12 02:41	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/15/12 02:41	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/15/12 02:41	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.39 (continued)

Sample Tag: SB-A5.2-NZ144_18-19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/15/12 02:41	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 02:41	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.40
Sample Tag: SB-A5.2-NZ144_24-25
Collected Date/Time: 05/04/2012 13:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:45	EMR		
Extraction, PCB	Completed			3550B	05/10/12 16:21	ADB		
Mercury Digestion	Completed			7471A	05/14/12 13:20	JRH		
Metal Digestion	Completed			3050B	05/14/12 12:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/14/12 17:08	PER	7440-36-0	
Arsenic	1.89	mg/kg	0.10	6020	05/14/12 17:08	PER	7440-38-2	
Barium	21.7	mg/kg	1.0	6020	05/14/12 17:08	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/14/12 17:08	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/14/12 17:08	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/14/12 17:08	PER	7440-43-9	
Chromium	4.55	mg/kg	0.20	6020	05/14/12 17:08	PER	7440-47-3	
Cobalt	2.26	mg/kg	0.20	6020	05/14/12 17:08	PER	7440-48-4	
Copper	6.91	mg/kg	0.20	6020	05/14/12 17:08	PER	7440-50-8	
Lead	3.39	mg/kg	0.20	6020	05/14/12 17:08	PER	7439-92-1	
Manganese	208	mg/kg	0.20	6020	05/14/12 17:08	PER	7439-96-5	
Mercury	0.0080	mg/kg	0.0053	7471A	05/14/12 16:20	JRT	7439-97-6	
Nickel	7.36	mg/kg	0.20	6020	05/14/12 17:08	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/14/12 17:08	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/14/12 17:08	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/14/12 17:08	PER	7440-28-0	
Vanadium	4.32	mg/kg	0.20	6020	05/14/12 17:08	PER	7440-62-2	
Zinc	12.3	mg/kg	1.0	6020	05/14/12 17:08	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 16:27	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 16:27	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 16:27	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 16:27	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 16:27	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 16:27	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 16:27	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.40 (continued)

Sample Tag: SB-A5.2-NZ144_24-25

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/15/12 03:11	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/15/12 03:11	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/15/12 03:11	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/15/12 03:11	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/15/12 03:11	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52424.40 (continued)

Sample Tag: SB-A5.2-NZ144_24-25

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/15/12 03:11	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 03:11	PL	88-06-2	



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C.O.C. PAGE # 1 OF 3

67624

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Randy Christensen			
COMPANY ARCADIS			
ADDRESS 10559 Citiation Drive Suite 100			
CITY Brighton		STATE MI	ZIP CODE 48116
PHONE NO. 810-225-1910	FAX NO.	P.O. NO. PO125047	
E-MAIL ADDRESS randy.christensen@arcadis-us.com		QUOTE NO. Task#: 5	

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208	E-MAIL ADDRESS dfavero@racertrust.org		

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Lansing Plant 2 Project#: 80064479.2012			SAMPLER(S) - PLEASE PRINT/SIGN NAME Meryl Hicks										Certifications ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES Project Locations ☐ Detroit ☐ New York ☐ Other _____ Special Instructions														
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER _____																											
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____																											
MATRIX CODE:		GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIFE A=AIR W=WASTE		# Containers & Preservatives		VOCs		SVOCs		PCBs		Metals (w/fig)															
MERIT LAB NO. FOR LAB USE ONLY		YEAR DATE TIME		SAMPLE TAG IDENTIFICATION-DESCRIPTION		MATRIX		# OF BOTTLES		NONE		HCl						HNO ₃		H ₂ SO ₄		NaOH		MeOH		OTHER	
52424.01		5/4/12 1105		VAP-A5.1-MW162-4-4.5		S		1		1																	
.02		5/4/12 —		VAP-A5.1-Dup13		S		1		1														* Held for 1,4-dioxane			
.03		5/4/12 1120		VAP-A5.1-MW162-4.5-5		GW		5		3		1															
.04/MS/MSD		5/4/12 1230		VAP-A5.1-MW162-12-13		S		3		3														* SVOCs, PCBs, and metal GW samples are field filtered.			
.07		5/4/12 —		VAP-A5.1-MW162-Dup14		S		1		1																	
.08		5/4/12 1330		VAP-A5.1-MW162-26-22		GW		4		2		1															
.09		5/4/12 1440		VAP-A5.1-MW162-26-28		GW		5		3		1															
.10		5/4/12 —		Trip Blank				1		1																	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 5/4/12	TIME 1610
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 05/04/12	TIME 1610
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 05/04/12	TIME 1620
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 04/04/12	TIME 1620
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
NOTES:		TEMP. ON ARRIVAL 5.5

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



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C.O.C. PAGE # 2 OF 3

67641

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Randy Christensen			
COMPANY ARCADIS			
ADDRESS 10559 Citation Drive Suite 100			
CITY Brighton		STATE MI	ZIP CODE 48116
PHONE NO. 810-225-1910	FAX NO. 810-229-8837	P.O. NO. PO125047	
E-MAIL ADDRESS randy.christensen@arcadis-us.com		QUOTE NO. Task# 5	

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208	E-MAIL ADDRESS dfavero@racertrust.org		

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Lansing Plant 2 Project# B0064479.2012	SAMPLER(S) - PLEASE PRINT/SIGN NAME Meryl Hicks / C. Barton
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER	
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER	

MATRIX CODE:	GW=GROUNDWATER	WW=WASTEWATER	S=SOIL	L=LIQUID	SD=SOLID	
	SL=SLUDGE	DW=DRINKING WATER	O=OIL	WP=WIPE	A=AIR	W=WASTE

Containers & Preservatives

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES										
	DATE	TIME				NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER			
52424.11	5-4-12	1120	SB-AS.2-N6105-13-14	S	1	X									
1254-12	1230	SB-AS.2-NZ144-1-2	S	1	X										
7354-12	1255	SB-AS.2-NZ144-6-7	S	1	X										
14/15/16	5-4-12	1300	SB-AS.2-NZ144-12-13	S	3	X									
17	5-4-12	1412	SB-AS.2-06144-0-1	S	1	X									
18	5-4-12	1427	SB-AS.2-06144-7-8	S	1	X									
19	5-4-12	1450	SB-AS.2-06144-5-9	GW	5	X									
20	5-4-12	1521	SB-AS.2-06144-12-13	S	1	X									
21	5-4-12	1540	SB-AS.2-06144-21-22	S	1	X									
22	5-4-12	-	SB-AS.2-DUP12	S	1	X									
23	5-4-12	-	SB-AS.2-DUP11	S	1	X									
24	5-4-12	-	SB-AS.2-DUP10	S	1	X									

										Certifications					
										☐ OHIO VAP ☐ Drinking Water					
										☐ DoD ☐ NPDES					
										Project Locations					
										☐ Detroit ☐ New York					
										☐ Other					
										Special Instructions					
										* SVOC, PCB, and metal GW samples are field filtered					
										MS/MSD					
										HOLD VOCs for 14 Diox					

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 5/4/12	TIME 1610
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 05/04/12	TIME 1610
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 05/04/12	TIME 1620
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 05/04/12	TIME 1620
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
NOTES: TEMP. ON ARRIVAL 5.5		

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



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C.O.C. PAGE # 3 OF 3

67642

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Randy Christensen			CONTACT NAME Dave Favero			☐ SAME		
COMPANY ARCADIS			COMPANY RACER TRUST					
ADDRESS 10559 Citation Drive Suite 100			ADDRESS 2930 Ecorse Road					
CITY Brighton		STATE MI	ZIP CODE 48116		CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 810-225-1910	FAX NO. 810-229-8837	P.O. NO. PO125047		PHONE NO. 313-486-9208		E-MAIL ADDRESS dfavero@racertrust.org		
E-MAIL ADDRESS randy.christensen@arcadis-us.com		QUOTE NO. Task#: 5						

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Lansing Plant 2 Project#: B0064479.2012			SAMPLER(S) - PLEASE PRINT/SIGN NAME Meryl Hicks / C Barton										Certifications ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES Project Locations ☐ Detroit ☐ New York ☐ Other _____ Special Instructions	
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER _____														
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____														
MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WPIPE A=AIR W=WASTE			# Containers & Preservatives											
MERCIT LAB NO. FOR LAB USE ONLY			YEAR DATE TIME		SAMPLE TAG IDENTIFICATION-DESCRIPTION		MATRIX # OF BOTTLES		NONE HCl HNO ₃ H ₂ SO ₄ NaOH MeOH OTHER		VOCs Metals PCBs SVOCs			
.25			5-4-12 0832		SB-AS.2-NG11S-11-12		S 1		Y		X X X		* SVOC, PCB, and metals are field filtered for GW	
.26			5-4-12 0845		SB-AS.2-NG11S-15-16		S 1		X		X X X			
.27			5-4-12 0855		SB-AS.2-NG11S-20-21		S 1		Y		X X X			
.28			5-4-12 0903		SB-AS.2-NG11S-24-25		S 1		X		X X X			
.29			5-4-12 0922		SB-AS.2-NB110-1-2		S 1		X		X X X			
.30			5-4-12 0930		SB-AS.2-NB110-6-7		S 1		X		X X X			
.31			5-4-12 0940		SB-AS.2-NB110-10-11		S 1		X		X X X			
.32			5-4-12 0950		SB-AS.2-NB110-15-16		S 1		Y		X X X			
.33			5-4-12 1005		SD-AS.2-NB110-24-25		S 1		Y		X X X			
.34			5-4-12 0957		SB-AS.2-NB110-19-20		S 1		Y		X X X			
.35			5-4-12 1048		SB-AS.2-NG10S-2-3		S 1		X		Y X X			
.36/37/38			5-4-12 1059		SB-AS.2-NG10S-7-8		S 1		Y		Y X X		MS/MSD	

RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>[Signature]</i> / ARCADIS	DATE 5/4/12	TIME 1610	RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>[Signature]</i> / RACER TRUST	DATE 05/04/12	TIME 1610
RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>[Signature]</i>	DATE 05/04/12	TIME 1610	RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>[Signature]</i>	DATE 05/04/12	TIME 1645
RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>[Signature]</i>	DATE 05/04/12	TIME 1610	RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>[Signature]</i>	DATE 05/04/12	TIME 1645
RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>[Signature]</i>	DATE 05/04/12	TIME 1610	RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>[Signature]</i>	DATE 05/04/12	TIME 1645
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS			NOTES: TEMP. ON ARRIVAL 5.5		
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS					

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



Analytical Laboratory Report

Revised Report

Report ID: S52432.01(02)

Generated on 05/22/2012

Replaces report S52432.01(01) generated on 05/18/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52432.01-S52432.27

Project: Lansing Plant #2 Project# B0064479.2012

Collected Date: 05/07/2012

Submitted Date/Time: 05/08/2012 09:40

Sampled by: Meryl H / Austin W

P.O. #: PO125047

PCB reporting limit lowered.

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

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Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Revised Report

Sample Summary (27 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52432.01	VAP-A5.1-MW162_32-34	Groundwater	05/07/2012 10:10
S52432.02	VAP-A5.1-MW162_32-34 MS	Groundwater	05/07/2012 10:10
S52432.03	VAP-A5.1-MW162_32-34 MSD	Groundwater	05/07/2012 10:10
S52432.04	VAP-A5.3-OV112_10-12	Groundwater	05/07/2012 14:00
S52432.05	VAP-A5.3-OV112_16-18	Groundwater	05/07/2012 15:45
S52432.06	VAP-A5.3-DUP17	Groundwater	05/07/2012 00:01
S52432.07	VAP-A3-LE73_25-28	Groundwater	05/07/2012 12:25
S52432.08	SB-A5.2-OD154_20-21	Soil	05/07/2012 13:00
S52432.09	SB-A5.2-OG162_0-1	Soil	05/07/2012 13:50
S52432.10	SB-A5.2-NJ162_1-2	Soil	05/07/2012 15:15
S52432.11	SB-A5.2-NJ162_7-8	Soil	05/07/2012 16:45
S52432.12	SB-A5.2-NJ162_12-13	Soil	05/07/2012 16:55
S52432.13	SB-A5.2-NJ162_16-17	Soil	05/07/2012 17:05
S52432.14	SB-A5.2-NJ162_14.5-18.5	Groundwater	05/07/2012 17:50
S52432.15	SB-A5.2-DUP16	Soil	05/07/2012 00:01
S52432.16	SB-A5.2-OG138_0-1	Soil	05/07/2012 09:20
S52432.17	SB-A5.2-OA162_1-2	Soil	05/07/2012 10:30
S52432.18	SB-A5.2-OA162_6-7	Soil	05/07/2012 10:42
S52432.19	SB-A5.2-OA162_12-13	Soil	05/07/2012 10:50
S52432.20	SB-A5.2-OA162_18-19	Soil	05/07/2012 11:10
S52432.21	SB-A5.2-OA162_20-21	Soil	05/07/2012 11:15
S52432.22	SB-A5.2-OD154_2-3	Soil	05/07/2012 11:40
S52432.23	SB-A5.2-OD154_9-13	Groundwater	05/07/2012 12:17
S52432.24	SB-A5.2-OD154_9-10	Soil	05/07/2012 12:05
S52432.25	SB-A5.2-OD154_15-16	Soil	05/07/2012 12:42
S52432.26	SB-A5.2-OD154_19-20	Soil	05/07/2012 12:50
S52432.27	SB-A5.2-DUP15	Soil	05/07/2012 00:01



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.01
Sample Tag: VAP-A5.1-MW162_32-34
Collected Date/Time: 05/07/2012 10:10
Matrix: Groundwater
COC Reference: 67618

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	3.6	IR
2	40ml Glass	HCL	Yes	3.6	IR
1	125ml Plastic	HNO3	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/09/12 22:27	EMR		
Mercury Digestion	Completed			7471A	05/11/12 10:00	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:50	SLS	7440-36-0	
Arsenic, Dissolved	0.002	mg/L	0.002	6020	05/10/12 15:50	SLS	7440-38-2	
Barium, Dissolved	0.212	mg/L	0.010	6020	05/10/12 15:50	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 15:50	SLS	7440-41-7	
Boron, Dissolved	0.51	mg/L	0.04	6020	05/10/12 15:50	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 15:50	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:50	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:50	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:50	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:50	SLS	7439-92-1	
Manganese, Dissolved	0.201	mg/L	0.010	6020	05/10/12 15:50	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/11/12 14:52	JRT	7439-97-6	
Nickel, Dissolved	0.023	mg/L	0.010	6020	05/10/12 15:50	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:50	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 15:50	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:50	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:50	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:50	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/15/12 12:17	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/15/12 12:17	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	205-99-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.01 (continued)

Sample Tag: VAP-A5.1-MW162_32-34

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/11/12 13:02	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/11/12 13:02	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	05/11/12 13:02	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/11/12 13:02	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	129-00-0	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.01 (continued)

Sample Tag: VAP-A5.1-MW162_32-34

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/11/12 13:02	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	100	8260B - SIM	05/16/12 15:49	JGH	123-91-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.02
Sample Tag: VAP-A5.1-MW162_32-34 MS
Collected Date/Time: 05/07/2012 10:10
Matrix: Groundwater
COC Reference: 67618

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	3.6	IR
2	40ml Glass	HCL	Yes	3.6	IR
1	125ml Plastic	HNO3	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/09/12 22:27	EMR		
Mercury Digestion	Completed			7471A	05/11/12 10:00	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	0.101	mg/L	0.002	6020	05/10/12 16:10	SLS	7440-36-0	
Arsenic, Dissolved	0.109	mg/L	0.002	6020	05/10/12 16:10	SLS	7440-38-2	
Barium, Dissolved	0.263	mg/L	0.010	6020	05/10/12 16:10	SLS	7440-39-3	
Beryllium, Dissolved	0.106	mg/L	0.001	6020	05/10/12 16:10	SLS	7440-41-7	
Boron, Dissolved	0.71	mg/L	0.04	6020	05/10/12 16:10	SLS	7440-42-8	
Cadmium, Dissolved	0.099	mg/L	0.001	6020	05/10/12 16:10	SLS	7440-43-9	
Chromium, Dissolved	0.108	mg/L	0.010	6020	05/10/12 16:10	SLS	7440-47-3	
Cobalt, Dissolved	0.104	mg/L	0.010	6020	05/10/12 16:10	SLS	7440-48-4	
Copper, Dissolved	0.099	mg/L	0.002	6020	05/10/12 16:10	SLS	7440-50-8	
Lead, Dissolved	0.091	mg/L	0.002	6020	05/10/12 16:10	SLS	7439-92-1	
Manganese, Dissolved	0.251	mg/L	0.010	6020	05/10/12 16:10	SLS	7439-96-5	
Mercury, Dissolved	0.0022	mg/L	0.0001	7471A	05/11/12 14:54	JRT	7439-97-6	
Nickel, Dissolved	0.113	mg/L	0.010	6020	05/10/12 16:10	SLS	7440-02-0	
Selenium, Dissolved	0.100	mg/L	0.002	6020	05/10/12 16:10	SLS	7782-49-2	
Silver, Dissolved	0.0966	mg/L	0.0002	6020	05/10/12 16:10	SLS	7440-22-4	
Thallium, Dissolved	0.093	mg/L	0.002	6020	05/10/12 16:10	SLS	7440-28-0	
Vanadium, Dissolved	0.113	mg/L	0.002	6020	05/10/12 16:10	SLS	7440-62-2	
Zinc, Dissolved	0.110	mg/L	0.010	6020	05/10/12 16:10	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	19	ug/L	1	8270C	05/11/12 13:32	PL	91-94-1	1
Hexachlorobenzene	50	ug/L	1	8270C	05/11/12 13:32	PL	118-74-1	1

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	44	ug/L	1	8270C	05/11/12 13:32	PL	83-32-9	1
Acenaphthylene	45	ug/L	1	8270C	05/11/12 13:32	PL	208-96-8	1
Acetophenone	44	ug/L	1	8270C	05/11/12 13:32	PL	98-86-2	1
Anthracene	49	ug/L	1	8270C	05/11/12 13:32	PL	120-12-7	1
Atrazine	51	ug/L	1	8270C	05/11/12 13:32	PL	1912-24-9	1
1,1'-Biphenyl	44	ug/L	1	8270C	05/11/12 13:32	PL	92-52-4	1
4-Bromophenyl phenyl ether	47	ug/L	1	8270C	05/11/12 13:32	PL	101-55-3	1
di-n-Butyl phthalate	53	ug/L	1	8270C	05/11/12 13:32	PL	84-74-2	1
Benzaldehyde	32	ug/L	1	8270C	05/11/12 13:32	PL	100-52-7	1
Benzo(a)anthracene	48	ug/L	1	8270C	05/11/12 13:32	PL	56-55-3	1
Benzo(a)pyrene	46	ug/L	1	8270C	05/11/12 13:32	PL	50-32-8	1

1-Sample spiked at 0.051 mg/l



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.02 (continued)

Sample Tag: VAP-A5.1-MW162_32-34 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(b)fluoranthene	49	ug/L	1	8270C	05/11/12 13:32	PL	205-99-2	1
Benzo(ghi)perylene	48	ug/L	1	8270C	05/11/12 13:32	PL	191-24-2	1
Benzo(k)fluoranthene	49	ug/L	1	8270C	05/11/12 13:32	PL	207-08-9	1
Butyl benzyl phthalate	54	ug/L	1	8270C	05/11/12 13:32	PL	85-68-7	1
2-Chloronaphthalene	44	ug/L	1	8270C	05/11/12 13:32	PL	91-58-7	1
2-Chlorophenol	40	ug/L	1	8270C	05/11/12 13:32	PL	95-57-8	1
4-Chloro-3-methylphenol	50	ug/L	1	8270C	05/11/12 13:32	PL	59-50-7	1
4-Chloroaniline	30	ug/L	2	8270C	05/11/12 13:32	PL	106-47-8	1
4-Chlorophenyl phenyl ether	48	ug/L	1	8270C	05/11/12 13:32	PL	7005-72-3	1
Caprolactam	7	ug/L	1	8270C	05/11/12 13:32	PL	105-60-2	1
Carbazole	50	ug/L	1	8270C	05/11/12 13:32	PL	86-74-8	1
bis(2-Chloroethoxy)methane	42	ug/L	1	8270C	05/11/12 13:32	PL	111-91-1	1
bis(2-Chloroethyl)ether	37	ug/L	1	8270C	05/11/12 13:32	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	33	ug/L	1	8270C	05/11/12 13:32	PL	108-60-1	1
Chrysene	50	ug/L	1	8270C	05/11/12 13:32	PL	218-01-9	1
2,4-Dichlorophenol	45	ug/L	1	8270C	05/11/12 13:32	PL	120-83-2	1
2,4-Dimethylphenol	43	ug/L	1	8270C	05/11/12 13:32	PL	105-67-9	1
2,4-Dinitrophenol	42	ug/L	1	8270C	05/11/12 13:32	PL	51-28-5	1
2,4-Dinitrotoluene	52	ug/L	1	8270C	05/11/12 13:32	PL	121-14-2	1
2,6-Dinitrotoluene	51	ug/L	1	8270C	05/11/12 13:32	PL	606-20-2	1
4,6-Dinitro-2-methylphenol	47	ug/L	1	8270C	05/11/12 13:32	PL	534-52-1	1
Dibenzo(ah)anthracene	49	ug/L	1	8270C	05/11/12 13:32	PL	53-70-3	1
Dibenzofuran	47	ug/L	1	8270C	05/11/12 13:32	PL	132-64-9	1
Diethyl phthalate	52	ug/L	2	8270C	05/11/12 13:32	PL	84-66-2	1
Dimethyl phthalate	49	ug/L	2	8270C	05/11/12 13:32	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	56	ug/L	2	8270C	05/11/12 13:32	PL	117-81-7	1
Fluoranthene	48	ug/L	1	8270C	05/11/12 13:32	PL	206-44-0	1
Fluorene	48	ug/L	1	8270C	05/11/12 13:32	PL	86-73-7	1
Hexachlorobutadiene	39	ug/L	1	8270C	05/11/12 13:32	PL	87-68-3	1
Hexachlorocyclopentadiene	31	ug/L	1	8270C	05/11/12 13:32	PL	77-47-4	1
Hexachloroethane	36	ug/L	1	8270C	05/11/12 13:32	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	49	ug/L	1	8270C	05/11/12 13:32	PL	193-39-5	1
Isophorone	43	ug/L	1	8270C	05/11/12 13:32	PL	78-59-1	1
2-Methylnaphthalene	41	ug/L	1	8270C	05/11/12 13:32	PL	91-57-6	1
2-Methylphenol	39	ug/L	1	8270C	05/11/12 13:32	PL	95-48-7	1
3-, 4-Methylphenol	83	ug/L	1	8270C	05/11/12 13:32	PL	3/4-Cresol	1
2-Nitroaniline	50	ug/L	1	8270C	05/11/12 13:32	PL	88-74-4	1
2-Nitrophenol	42	ug/L	1	8270C	05/11/12 13:32	PL	88-75-5	1
3-Nitroaniline	35	ug/L	1	8270C	05/11/12 13:32	PL	99-09-2	1
4-Nitroaniline	56	ug/L	1	8270C	05/11/12 13:32	PL	100-01-6	1
4-Nitrophenol	45	ug/L	1	8270C	05/11/12 13:32	PL	100-02-7	1
N-Nitrosodi-n-propylamine	44	ug/L	1	8270C	05/11/12 13:32	PL	621-64-7	1
N-Nitrosodiphenylamine	41	ug/L	1	8270C	05/11/12 13:32	PL	86-30-6	1
Naphthalene	40	ug/L	1	8270C	05/11/12 13:32	PL	91-20-3	1
Nitrobenzene	41	ug/L	1	8270C	05/11/12 13:32	PL	98-95-3	1
di-n-Octyl phthalate	54	ug/L	1	8270C	05/11/12 13:32	PL	117-84-0	1
Pentachlorophenol	46	ug/L	1	8270C	05/11/12 13:32	PL	87-86-5	1
Phenanthrene	47	ug/L	1	8270C	05/11/12 13:32	PL	85-01-8	1

1-Sample spiked at 0.051 mg/l



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.02 (continued)

Sample Tag: VAP-A5.1-MW162_32-34 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Phenol	28	ug/L	1	8270C	05/11/12 13:32	PL	108-95-2	1
Pyrene	47	ug/L	1	8270C	05/11/12 13:32	PL	129-00-0	1
2,4,5-Trichlorophenol	51	ug/L	1	8270C	05/11/12 13:32	PL	95-95-4	1
2,4,6-Trichlorophenol	48	ug/L	1	8270C	05/11/12 13:32	PL	88-06-2	1

1-Sample spiked at 0.051 mg/l



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.03
Sample Tag: VAP-A5.1-MW162_32-34 MSD
Collected Date/Time: 05/07/2012 10:10
Matrix: Groundwater
COC Reference: 67618

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	3.6	IR
2	40ml Glass	HCL	Yes	3.6	IR
1	125ml Plastic	HNO3	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/09/12 22:27	EMR		
Mercury Digestion	Completed			7471A	05/11/12 10:00	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	0.101	mg/L	0.002	6020	05/10/12 15:58	SLS	7440-36-0	
Arsenic, Dissolved	0.108	mg/L	0.002	6020	05/10/12 15:58	SLS	7440-38-2	
Barium, Dissolved	0.263	mg/L	0.010	6020	05/10/12 15:58	SLS	7440-39-3	
Beryllium, Dissolved	0.107	mg/L	0.001	6020	05/10/12 15:58	SLS	7440-41-7	
Boron, Dissolved	0.72	mg/L	0.04	6020	05/10/12 15:58	SLS	7440-42-8	
Cadmium, Dissolved	0.100	mg/L	0.001	6020	05/10/12 15:58	SLS	7440-43-9	
Chromium, Dissolved	0.104	mg/L	0.010	6020	05/10/12 15:58	SLS	7440-47-3	
Cobalt, Dissolved	0.101	mg/L	0.010	6020	05/10/12 15:58	SLS	7440-48-4	
Copper, Dissolved	0.097	mg/L	0.002	6020	05/10/12 15:58	SLS	7440-50-8	
Lead, Dissolved	0.091	mg/L	0.002	6020	05/10/12 15:58	SLS	7439-92-1	
Manganese, Dissolved	0.243	mg/L	0.010	6020	05/10/12 15:58	SLS	7439-96-5	
Mercury, Dissolved	0.0022	mg/L	0.0001	7471A	05/11/12 14:56	JRT	7439-97-6	
Nickel, Dissolved	0.111	mg/L	0.010	6020	05/10/12 15:58	SLS	7440-02-0	
Selenium, Dissolved	0.099	mg/L	0.002	6020	05/10/12 15:58	SLS	7782-49-2	
Silver, Dissolved	0.0971	mg/L	0.0002	6020	05/10/12 15:58	SLS	7440-22-4	
Thallium, Dissolved	0.093	mg/L	0.002	6020	05/10/12 15:58	SLS	7440-28-0	
Vanadium, Dissolved	0.108	mg/L	0.002	6020	05/10/12 15:58	SLS	7440-62-2	
Zinc, Dissolved	0.106	mg/L	0.010	6020	05/10/12 15:58	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	17	ug/L	1	8270C	05/11/12 14:01	PL	91-94-1	1
Hexachlorobenzene	47	ug/L	1	8270C	05/11/12 14:01	PL	118-74-1	1

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	42	ug/L	1	8270C	05/11/12 14:01	PL	83-32-9	1
Acenaphthylene	43	ug/L	1	8270C	05/11/12 14:01	PL	208-96-8	1
Acetophenone	43	ug/L	1	8270C	05/11/12 14:01	PL	98-86-2	1
Anthracene	46	ug/L	1	8270C	05/11/12 14:01	PL	120-12-7	1
Atrazine	49	ug/L	1	8270C	05/11/12 14:01	PL	1912-24-9	1
1,1'-Biphenyl	42	ug/L	1	8270C	05/11/12 14:01	PL	92-52-4	1
4-Bromophenyl phenyl ether	46	ug/L	1	8270C	05/11/12 14:01	PL	101-55-3	1
di-n-Butyl phthalate	50	ug/L	1	8270C	05/11/12 14:01	PL	84-74-2	1
Benzaldehyde	32	ug/L	1	8270C	05/11/12 14:01	PL	100-52-7	1
Benzo(a)anthracene	46	ug/L	1	8270C	05/11/12 14:01	PL	56-55-3	1
Benzo(a)pyrene	43	ug/L	1	8270C	05/11/12 14:01	PL	50-32-8	1

1-Sample spiked at 0.051 mg/l



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.03 (continued)

Sample Tag: VAP-A5.1-MW162_32-34 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(b)fluoranthene	47	ug/L	1	8270C	05/11/12 14:01	PL	205-99-2	1
Benzo(ghi)perylene	45	ug/L	1	8270C	05/11/12 14:01	PL	191-24-2	1
Benzo(k)fluoranthene	46	ug/L	1	8270C	05/11/12 14:01	PL	207-08-9	1
Butyl benzyl phthalate	51	ug/L	1	8270C	05/11/12 14:01	PL	85-68-7	1
2-Chloronaphthalene	42	ug/L	1	8270C	05/11/12 14:01	PL	91-58-7	1
2-Chlorophenol	39	ug/L	1	8270C	05/11/12 14:01	PL	95-57-8	1
4-Chloro-3-methylphenol	47	ug/L	1	8270C	05/11/12 14:01	PL	59-50-7	1
4-Chloroaniline	28	ug/L	2	8270C	05/11/12 14:01	PL	106-47-8	1
4-Chlorophenyl phenyl ether	46	ug/L	1	8270C	05/11/12 14:01	PL	7005-72-3	1
Caprolactam	7	ug/L	1	8270C	05/11/12 14:01	PL	105-60-2	1
Carbazole	47	ug/L	1	8270C	05/11/12 14:01	PL	86-74-8	1
bis(2-Chloroethoxy)methane	40	ug/L	1	8270C	05/11/12 14:01	PL	111-91-1	1
bis(2-Chloroethyl)ether	36	ug/L	1	8270C	05/11/12 14:01	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	32	ug/L	1	8270C	05/11/12 14:01	PL	108-60-1	1
Chrysene	48	ug/L	1	8270C	05/11/12 14:01	PL	218-01-9	1
2,4-Dichlorophenol	43	ug/L	1	8270C	05/11/12 14:01	PL	120-83-2	1
2,4-Dimethylphenol	43	ug/L	1	8270C	05/11/12 14:01	PL	105-67-9	1
2,4-Dinitrophenol	41	ug/L	1	8270C	05/11/12 14:01	PL	51-28-5	1
2,4-Dinitrotoluene	48	ug/L	1	8270C	05/11/12 14:01	PL	121-14-2	1
2,6-Dinitrotoluene	48	ug/L	1	8270C	05/11/12 14:01	PL	606-20-2	1
4,6-Dinitro-2-methylphenol	45	ug/L	1	8270C	05/11/12 14:01	PL	534-52-1	1
Dibenzo(ah)anthracene	46	ug/L	1	8270C	05/11/12 14:01	PL	53-70-3	1
Dibenzofuran	45	ug/L	1	8270C	05/11/12 14:01	PL	132-64-9	1
Diethyl phthalate	49	ug/L	2	8270C	05/11/12 14:01	PL	84-66-2	1
Dimethyl phthalate	47	ug/L	2	8270C	05/11/12 14:01	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	53	ug/L	2	8270C	05/11/12 14:01	PL	117-81-7	1
Fluoranthene	46	ug/L	1	8270C	05/11/12 14:01	PL	206-44-0	1
Fluorene	46	ug/L	1	8270C	05/11/12 14:01	PL	86-73-7	1
Hexachlorobutadiene	39	ug/L	1	8270C	05/11/12 14:01	PL	87-68-3	1
Hexachlorocyclopentadiene	30	ug/L	1	8270C	05/11/12 14:01	PL	77-47-4	1
Hexachloroethane	36	ug/L	1	8270C	05/11/12 14:01	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	45	ug/L	1	8270C	05/11/12 14:01	PL	193-39-5	1
Isophorone	42	ug/L	1	8270C	05/11/12 14:01	PL	78-59-1	1
2-Methylnaphthalene	40	ug/L	1	8270C	05/11/12 14:01	PL	91-57-6	1
2-Methylphenol	39	ug/L	1	8270C	05/11/12 14:01	PL	95-48-7	1
3-, 4-Methylphenol	83	ug/L	1	8270C	05/11/12 14:01	PL	3/4-Cresol	1
2-Nitroaniline	49	ug/L	1	8270C	05/11/12 14:01	PL	88-74-4	1
2-Nitrophenol	41	ug/L	1	8270C	05/11/12 14:01	PL	88-75-5	1
3-Nitroaniline	33	ug/L	1	8270C	05/11/12 14:01	PL	99-09-2	1
4-Nitroaniline	54	ug/L	1	8270C	05/11/12 14:01	PL	100-01-6	1
4-Nitrophenol	43	ug/L	1	8270C	05/11/12 14:01	PL	100-02-7	1
N-Nitrosodi-n-propylamine	42	ug/L	1	8270C	05/11/12 14:01	PL	621-64-7	1
N-Nitrosodiphenylamine	39	ug/L	1	8270C	05/11/12 14:01	PL	86-30-6	1
Naphthalene	39	ug/L	1	8270C	05/11/12 14:01	PL	91-20-3	1
Nitrobenzene	41	ug/L	1	8270C	05/11/12 14:01	PL	98-95-3	1
di-n-Octyl phthalate	50	ug/L	1	8270C	05/11/12 14:01	PL	117-84-0	1
Pentachlorophenol	44	ug/L	1	8270C	05/11/12 14:01	PL	87-86-5	1
Phenanthrene	45	ug/L	1	8270C	05/11/12 14:01	PL	85-01-8	1

1-Sample spiked at 0.051 mg/l



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.03 (continued)

Sample Tag: VAP-A5.1-MW162_32-34 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Phenol	30	ug/L	1	8270C	05/11/12 14:01	PL	108-95-2	1
Pyrene	45	ug/L	1	8270C	05/11/12 14:01	PL	129-00-0	1
2,4,5-Trichlorophenol	48	ug/L	1	8270C	05/11/12 14:01	PL	95-95-4	1
2,4,6-Trichlorophenol	47	ug/L	1	8270C	05/11/12 14:01	PL	88-06-2	1

1-Sample spiked at 0.051 mg/l



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.04
Sample Tag: VAP-A5.3-OV112_10-12
Collected Date/Time: 05/07/2012 14:00
Matrix: Groundwater
COC Reference: 67618

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	3.6	IR
2	40ml Glass	HCL	Yes	3.6	IR
1	125ml Plastic	HNO3	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/09/12 22:27	EMR		
Mercury Digestion	Completed			7471A	05/11/12 10:00	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:37	SLS	7440-36-0	
Arsenic, Dissolved	0.006	mg/L	0.002	6020	05/10/12 15:37	SLS	7440-38-2	
Barium, Dissolved	0.120	mg/L	0.010	6020	05/10/12 15:37	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 15:37	SLS	7440-41-7	
Boron, Dissolved	0.23	mg/L	0.04	6020	05/10/12 15:37	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 15:37	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:37	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:37	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:37	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:37	SLS	7439-92-1	
Manganese, Dissolved	0.069	mg/L	0.010	6020	05/10/12 15:37	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/11/12 14:39	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:37	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:37	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 15:37	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:37	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:37	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:37	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/15/12 12:45	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/15/12 12:45	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	205-99-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.04 (continued)

Sample Tag: VAP-A5.3-OV112_10-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/14/12 21:49	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/14/12 21:49	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	05/14/12 21:49	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/14/12 21:49	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	129-00-0	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.04 (continued)

Sample Tag: VAP-A5.3-OV112_10-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/14/12 21:49	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.05
Sample Tag: VAP-A5.3-OV112_16-18
Collected Date/Time: 05/07/2012 15:45
Matrix: Groundwater
COC Reference: 67618

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	3.6	IR
2	40ml Glass	HCL	Yes	3.6	IR
1	125ml Plastic	HNO3	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/09/12 22:27	EMR		
Mercury Digestion	Completed			7471A	05/11/12 10:00	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:41	SLS	7440-36-0	
Arsenic, Dissolved	0.003	mg/L	0.002	6020	05/10/12 15:41	SLS	7440-38-2	
Barium, Dissolved	0.219	mg/L	0.010	6020	05/10/12 15:41	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 15:41	SLS	7440-41-7	
Boron, Dissolved	0.24	mg/L	0.04	6020	05/10/12 15:41	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 15:41	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:41	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:41	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:41	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:41	SLS	7439-92-1	
Manganese, Dissolved	0.080	mg/L	0.010	6020	05/10/12 15:41	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/11/12 14:41	JRH	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:41	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:41	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 15:41	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:41	SLS	7440-28-0	
Vanadium, Dissolved	0.003	mg/L	0.002	6020	05/10/12 15:41	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:41	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/15/12 13:13	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/15/12 13:13	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	205-99-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.05 (continued)

Sample Tag: VAP-A5.3-OV112_16-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/14/12 22:18	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/14/12 22:18	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	05/14/12 22:18	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/14/12 22:18	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	129-00-0	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.05 (continued)

Sample Tag: VAP-A5.3-OV112_16-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/14/12 22:18	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.06
Sample Tag: VAP-A5.3-DUP17
Collected Date/Time: 05/07/2012 00:01
Matrix: Groundwater
COC Reference: 67618

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	3.6	IR
2	40ml Glass	HCL	Yes	3.6	IR
1	125ml Plastic	HNO3	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/09/12 22:27	EMR		
Mercury Digestion	Completed			7471A	05/11/12 10:00	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:46	SLS	7440-36-0	
Arsenic, Dissolved	0.006	mg/L	0.002	6020	05/10/12 15:46	SLS	7440-38-2	
Barium, Dissolved	0.123	mg/L	0.010	6020	05/10/12 15:46	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 15:46	SLS	7440-41-7	
Boron, Dissolved	0.25	mg/L	0.04	6020	05/10/12 15:46	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 15:46	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:46	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:46	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:46	SLS	7440-50-8	
Lead, Dissolved	0.004	mg/L	0.002	6020	05/10/12 15:46	SLS	7439-92-1	
Manganese, Dissolved	0.079	mg/L	0.010	6020	05/10/12 15:46	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/11/12 14:43	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:46	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:46	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 15:46	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:46	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 15:46	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 15:46	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/15/12 13:41	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/15/12 13:41	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	205-99-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.06 (continued)

Sample Tag: VAP-A5.3-DUP17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/14/12 22:47	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	7005-72-3	
Caprolactam	1	ug/L	1	8270C	05/14/12 22:47	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/14/12 22:47	PL	84-66-2	
Dimethyl phthalate	2	ug/L	2	8270C	05/14/12 22:47	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/14/12 22:47	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	129-00-0	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.06 (continued)

Sample Tag: VAP-A5.3-DUP17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/14/12 22:47	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.07
Sample Tag: VAP-A3-LE73_25-28
Collected Date/Time: 05/07/2012 12:25
Matrix: Groundwater
COC Reference: 67618

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	3.6	IR
1	125ml Plastic	HNO3	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Mercury Digestion	Completed			7471A	05/11/12 10:00	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 16:51	SLS	7440-36-0	
Arsenic, Dissolved	0.011	mg/L	0.002	6020	05/10/12 16:51	SLS	7440-38-2	
Barium, Dissolved	0.295	mg/L	0.010	6020	05/10/12 16:51	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 16:51	SLS	7440-41-7	
Boron, Dissolved	0.06	mg/L	0.04	6020	05/10/12 16:51	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 16:51	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 16:51	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 16:51	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 16:51	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 16:51	SLS	7439-92-1	
Manganese, Dissolved	0.269	mg/L	0.010	6020	05/10/12 16:51	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/11/12 14:45	JRT	7439-97-6	
Nickel, Dissolved	0.011	mg/L	0.010	6020	05/10/12 16:51	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 16:51	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 16:51	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 16:51	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 16:51	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 16:51	SLS	7440-66-6	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.08
Sample Tag: SB-A5.2-OD154_20-21
Collected Date/Time: 05/07/2012 13:00
Matrix: Soil
COC Reference: 67623

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:45	EMR		
Extraction, PCB	Completed			3550B	05/11/12 14:06	ADB		
Mercury Digestion	Completed			7471A	05/15/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 09:00	PER		

Inorganics

Total Solids	79	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/15/12 14:15	PER	7440-36-0	
Arsenic	0.93	mg/kg	0.10	6020	05/15/12 14:15	PER	7440-38-2	
Barium	2.93	mg/kg	1.0	6020	05/15/12 14:15	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/15/12 14:15	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	05/15/12 14:15	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 14:15	PER	7440-43-9	
Chromium	0.69	mg/kg	0.21	6020	05/15/12 14:15	PER	7440-47-3	
Cobalt	0.76	mg/kg	0.21	6020	05/15/12 14:15	PER	7440-48-4	
Copper	2.20	mg/kg	0.21	6020	05/15/12 14:15	PER	7440-50-8	
Lead	1.68	mg/kg	0.21	6020	05/15/12 14:15	PER	7439-92-1	
Manganese	254	mg/kg	0.21	6020	05/15/12 14:15	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0063	7471A	05/15/12 15:17	JRT	7439-97-6	
Nickel	3.92	mg/kg	0.21	6020	05/15/12 14:15	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/15/12 14:15	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 14:15	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/15/12 14:15	PER	7440-28-0	
Vanadium	1.29	mg/kg	0.21	6020	05/15/12 14:15	PER	7440-62-2	
Zinc	9.09	mg/kg	1.0	6020	05/15/12 14:15	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	50	8082A	05/11/12 17:37	JANB	12674-11-2	X
PCB-1242	Not detected	ug/kg	50	8082A	05/11/12 17:37	JANB	53469-21-9	X
PCB-1221	Not detected	ug/kg	50	8082A	05/11/12 17:37	JANB	11104-28-2	X
PCB-1232	Not detected	ug/kg	50	8082A	05/11/12 17:37	JANB	11141-16-5	X
PCB-1248	Not detected	ug/kg	50	8082A	05/11/12 17:37	JANB	12672-29-6	X
PCB-1254	Not detected	ug/kg	50	8082A	05/11/12 17:37	JANB	11097-69-1	X
PCB-1260	Not detected	ug/kg	50	8082A	05/11/12 17:37	JANB	11096-82-5	X

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	208-96-8	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.08 (continued)

Sample Tag: SB-A5.2-OD154_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/15/12 03:40	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/15/12 03:40	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/15/12 03:40	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/15/12 03:40	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/15/12 03:40	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	88-75-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.08 (continued)

Sample Tag: SB-A5.2-OD154_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/15/12 03:40	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 03:40	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.09

Sample Tag: SB-A5.2-OG162_0-1

Collected Date/Time: 05/07/2012 13:50

Matrix: Soil

COC Reference: 67623

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:45	EMR		
Extraction, PCB	Completed			3550B	05/11/12 14:06	ADB		
Mercury Digestion	Completed			7471A	05/15/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 09:00	PER		

Inorganics

Total Solids	80	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	0.56	mg/kg	0.21	6020	05/15/12 14:21	PER	7440-36-0	
Arsenic	2.87	mg/kg	0.10	6020	05/15/12 14:21	PER	7440-38-2	
Barium	268	mg/kg	1.0	6020	05/15/12 14:21	PER	7440-39-3	
Beryllium	0.46	mg/kg	0.21	6020	05/15/12 14:21	PER	7440-41-7	
Boron	17.5	mg/kg	4.2	6020	05/15/12 14:21	PER	7440-42-8	
Cadmium	22.0	mg/kg	0.10	6020	05/15/12 14:21	PER	7440-43-9	
Chromium	25.8	mg/kg	0.21	6020	05/15/12 14:21	PER	7440-47-3	
Cobalt	4.12	mg/kg	0.21	6020	05/15/12 14:21	PER	7440-48-4	
Copper	41.1	mg/kg	0.21	6020	05/15/12 14:21	PER	7440-50-8	
Lead	230	mg/kg	0.21	6020	05/15/12 14:21	PER	7439-92-1	
Manganese	478	mg/kg	0.21	6020	05/15/12 14:21	PER	7439-96-5	
Mercury	0.0518	mg/kg	0.0063	7471A	05/15/12 15:01	JRT	7439-97-6	
Nickel	17.8	mg/kg	0.21	6020	05/15/12 14:21	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/15/12 14:21	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 14:21	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/15/12 14:21	PER	7440-28-0	
Vanadium	8.92	mg/kg	0.21	6020	05/15/12 14:21	PER	7440-62-2	
Zinc	811	mg/kg	1.0	6020	05/15/12 14:21	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	5	8082A	05/11/12 17:16	JANB	12674-11-2	X
PCB-1242	Not detected	ug/kg	5	8082A	05/11/12 17:16	JANB	53469-21-9	X
PCB-1221	Not detected	ug/kg	5	8082A	05/11/12 17:16	JANB	11104-28-2	X
PCB-1232	Not detected	ug/kg	5	8082A	05/11/12 17:16	JANB	11141-16-5	X
PCB-1248	Not detected	ug/kg	5	8082A	05/11/12 17:16	JANB	12672-29-6	X
PCB-1254	30	ug/kg	5	8082A	05/11/12 17:16	JANB	11097-69-1	X
PCB-1260	Not detected	ug/kg	5	8082A	05/11/12 17:16	JANB	11096-82-5	X

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	3,200	ug/kg	600	8270C	05/11/12 21:49	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	208-96-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.09 (continued)

Sample Tag: SB-A5.2-OG162_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	98-86-2	X
Anthracene	10,100	ug/kg	600	8270C	05/11/12 21:49	PL	120-12-7	X
Atrazine	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	1,000	8270C	05/11/12 21:49	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	100-52-7	X
Benzo(a)anthracene	27,200	ug/kg	600	8270C	05/11/12 21:49	PL	56-55-3	X
Benzo(a)pyrene	28,000	ug/kg	600	8270C	05/11/12 21:49	PL	50-32-8	XI
Benzo(b)fluoranthene	56,700	ug/kg	600	8270C	05/11/12 21:49	PL	205-99-2	Xlp
Benzo(ghi)perylene	10,300	ug/kg	600	8270C	05/11/12 21:49	PL	191-24-2	XI
Benzo(k)fluoranthene	57,400	ug/kg	600	8270C	05/11/12 21:49	PL	207-08-9	Xlp
Butyl benzyl phthalate	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	105-60-2	X
Carbazole	5,400	ug/kg	600	8270C	05/11/12 21:49	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	108-60-1	X
Chrysene	27,900	ug/kg	600	8270C	05/11/12 21:49	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	534-52-1	X
Dibenzo(ah)anthracene	3,000	ug/kg	1,000	8270C	05/11/12 21:49	PL	53-70-3	XI
Dibenzofuran	2,000	ug/kg	600	8270C	05/11/12 21:49	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	1,000	8270C	05/11/12 21:49	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	19,000	ug/kg	1,000	8270C	05/11/12 21:49	PL	117-81-7	X
Fluoranthene	56,800	ug/kg	600	8270C	05/11/12 21:49	PL	206-44-0	X
Fluorene	3,400	ug/kg	600	8270C	05/11/12 21:49	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	10,300	ug/kg	600	8270C	05/11/12 21:49	PL	193-39-5	XI
Isophorone	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	78-59-1	X
2-Methylnaphthalene	800	ug/kg	600	8270C	05/11/12 21:49	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	95-48-7	X

X-Elevated reporting limit due to matrix interference

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.09 (continued)

Sample Tag: SB-A5.2-OG162_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-, 4-Methylphenol	Not detected	ug/kg	1,000	8270C	05/11/12 21:49	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	1,000	8270C	05/11/12 21:49	PL	117-84-0	XI
Pentachlorophenol	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	87-86-5	X
Phenanthrene	34,100	ug/kg	600	8270C	05/11/12 21:49	PL	85-01-8	X
Phenol	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	108-95-2	X
Pyrene	56,600	ug/kg	600	8270C	05/11/12 21:49	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	600	8270C	05/11/12 21:49	PL	88-06-2	X
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	3,500	ug/kg	600	8270C	05/11/12 23:16	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	98-86-2	X
Anthracene	10,900	ug/kg	600	8270C	05/11/12 23:16	PL	120-12-7	X
Atrazine	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	1,000	8270C	05/11/12 23:16	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	100-52-7	X
Benzo(a)anthracene	28,500	ug/kg	600	8270C	05/11/12 23:16	PL	56-55-3	X
Benzo(a)pyrene	29,000	ug/kg	600	8270C	05/11/12 23:16	PL	50-32-8	XI
Benzo(b)fluoranthene	69,300	ug/kg	600	8270C	05/11/12 23:16	PL	205-99-2	Xlp
Benzo(ghi)perylene	5,900	ug/kg	600	8270C	05/11/12 23:16	PL	191-24-2	XI
Benzo(k)fluoranthene	70,800	ug/kg	600	8270C	05/11/12 23:16	PL	207-08-9	Xlp
Butyl benzyl phthalate	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	105-60-2	X
Carbazole	6,100	ug/kg	600	8270C	05/11/12 23:16	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	108-60-1	X
Chrysene	29,100	ug/kg	600	8270C	05/11/12 23:16	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	120-83-2	X

X-Elevated reporting limit due to matrix interference

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.09 (continued)

Sample Tag: SB-A5.2-OG162_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
2,4-Dimethylphenol	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	534-52-1	X
Dibenzo(ah)anthracene	2,000	ug/kg	1,000	8270C	05/11/12 23:16	PL	53-70-3	XI
Dibenzofuran	2,400	ug/kg	600	8270C	05/11/12 23:16	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	1,000	8270C	05/11/12 23:16	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	22,000	ug/kg	1,000	8270C	05/11/12 23:16	PL	117-81-7	X
Fluoranthene	56,600	ug/kg	600	8270C	05/11/12 23:16	PL	206-44-0	X
Fluorene	4,000	ug/kg	600	8270C	05/11/12 23:16	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	6,000	ug/kg	600	8270C	05/11/12 23:16	PL	193-39-5	XI
Isophorone	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	78-59-1	X
2-Methylnaphthalene	900	ug/kg	600	8270C	05/11/12 23:16	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	1,000	8270C	05/11/12 23:16	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	1,000	8270C	05/11/12 23:16	PL	117-84-0	XI
Pentachlorophenol	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	87-86-5	X
Phenanthrene	35,900	ug/kg	600	8270C	05/11/12 23:16	PL	85-01-8	X
Phenol	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	108-95-2	X
Pyrene	74,900	ug/kg	600	8270C	05/11/12 23:16	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	600	8270C	05/11/12 23:16	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference

I-Matrix interference with internal standard



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.10
Sample Tag: SB-A5.2-NJ162_1-2
Collected Date/Time: 05/07/2012 15:15
Matrix: Soil
COC Reference: 67623

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/08/12 23:33	EMR		
Extraction, PCB	Completed			3550B	05/11/12 14:06	ADB		
Mercury Digestion	Completed			7471A	05/15/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 09:00	PER		

Inorganics

Total Solids	93	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/15/12 14:23	PER	7440-36-0	
Arsenic	0.87	mg/kg	0.10	6020	05/15/12 14:23	PER	7440-38-2	
Barium	8.27	mg/kg	1.0	6020	05/15/12 14:23	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/15/12 14:23	PER	7440-41-7	
Boron	Not detected	mg/kg	3.8	6020	05/15/12 14:23	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 14:23	PER	7440-43-9	
Chromium	2.54	mg/kg	0.20	6020	05/15/12 14:23	PER	7440-47-3	
Cobalt	3.39	mg/kg	0.20	6020	05/15/12 14:23	PER	7440-48-4	
Copper	3.74	mg/kg	0.20	6020	05/15/12 14:23	PER	7440-50-8	
Lead	6.53	mg/kg	0.20	6020	05/15/12 14:23	PER	7439-92-1	
Manganese	190	mg/kg	0.20	6020	05/15/12 14:23	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0053	7471A	05/15/12 15:04	JRT	7439-97-6	
Nickel	6.61	mg/kg	0.20	6020	05/15/12 14:23	PER	7440-02-0	
Selenium	0.20	mg/kg	0.20	6020	05/15/12 14:23	PER	7782-49-2	
Silver	0.19	mg/kg	0.10	6020	05/15/12 14:23	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/15/12 14:23	PER	7440-28-0	
Vanadium	1.77	mg/kg	0.20	6020	05/15/12 14:23	PER	7440-62-2	
Zinc	4.36	mg/kg	1.0	6020	05/15/12 14:23	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	20	8082A	05/11/12 17:48	JANB	12674-11-2	X
PCB-1242	Not detected	ug/kg	20	8082A	05/11/12 17:48	JANB	53469-21-9	X
PCB-1221	Not detected	ug/kg	20	8082A	05/11/12 17:48	JANB	11104-28-2	X
PCB-1232	Not detected	ug/kg	20	8082A	05/11/12 17:48	JANB	11141-16-5	X
PCB-1248	Not detected	ug/kg	20	8082A	05/11/12 17:48	JANB	12672-29-6	X
PCB-1254	Not detected	ug/kg	20	8082A	05/11/12 17:48	JANB	11097-69-1	X
PCB-1260	Not detected	ug/kg	20	8082A	05/11/12 17:48	JANB	11096-82-5	X

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	208-96-8	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.10 (continued)

Sample Tag: SB-A5.2-NJ162_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 23:28	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/10/12 23:28	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 23:28	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/10/12 23:28	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/10/12 23:28	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	88-75-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.10 (continued)

Sample Tag: SB-A5.2-NJ162_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/10/12 23:28	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/10/12 23:28	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.11
Sample Tag: SB-A5.2-NJ162_7-8
Collected Date/Time: 05/07/2012 16:45
Matrix: Soil
COC Reference: 67623

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/10/12 21:08	EMR		
Extraction, PCB	Completed			3550B	05/11/12 14:06	ADB		
Mercury Digestion	Completed			7471A	05/15/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 09:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/15/12 14:25	PER	7440-36-0	
Arsenic	1.15	mg/kg	0.10	6020	05/15/12 14:25	PER	7440-38-2	
Barium	14.3	mg/kg	1.0	6020	05/15/12 14:25	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/15/12 14:25	PER	7440-41-7	
Boron	Not detected	mg/kg	3.9	6020	05/15/12 14:25	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 14:25	PER	7440-43-9	
Chromium	2.15	mg/kg	0.20	6020	05/15/12 14:25	PER	7440-47-3	
Cobalt	1.86	mg/kg	0.20	6020	05/15/12 14:25	PER	7440-48-4	
Copper	7.78	mg/kg	0.20	6020	05/15/12 14:25	PER	7440-50-8	
Lead	3.98	mg/kg	0.20	6020	05/15/12 14:25	PER	7439-92-1	
Manganese	284	mg/kg	0.20	6020	05/15/12 14:25	PER	7439-96-5	
Mercury	0.0069	mg/kg	0.0054	7471A	05/15/12 15:06	JRT	7439-97-6	
Nickel	6.44	mg/kg	0.20	6020	05/15/12 14:25	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/15/12 14:25	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 14:25	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/15/12 14:25	PER	7440-28-0	
Vanadium	4.26	mg/kg	0.20	6020	05/15/12 14:25	PER	7440-62-2	
Zinc	10.3	mg/kg	1.0	6020	05/15/12 14:25	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	20	8082A	05/11/12 17:59	JANB	12674-11-2	X
PCB-1242	Not detected	ug/kg	20	8082A	05/11/12 17:59	JANB	53469-21-9	X
PCB-1221	Not detected	ug/kg	20	8082A	05/11/12 17:59	JANB	11104-28-2	X
PCB-1232	Not detected	ug/kg	20	8082A	05/11/12 17:59	JANB	11141-16-5	X
PCB-1248	Not detected	ug/kg	20	8082A	05/11/12 17:59	JANB	12672-29-6	X
PCB-1254	Not detected	ug/kg	20	8082A	05/11/12 17:59	JANB	11097-69-1	X
PCB-1260	Not detected	ug/kg	20	8082A	05/11/12 17:59	JANB	11096-82-5	X

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	208-96-8	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.11 (continued)

Sample Tag: SB-A5.2-NJ162_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 13:32	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/12/12 13:32	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 13:32	PL	84-66-2	
Dimethyl phthalate	40	ug/kg	40	8270C	05/12/12 13:32	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/12/12 13:32	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/12/12 13:32	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	88-74-4	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.11 (continued)

Sample Tag: SB-A5.2-NJ162_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 13:32	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 13:32	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.12
Sample Tag: SB-A5.2-NJ162_12-13
Collected Date/Time: 05/07/2012 16:55
Matrix: Soil
COC Reference: 67623

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/10/12 21:08	EMR		
Extraction, PCB	Completed			3550B	05/11/12 14:06	ADB		
Mercury Digestion	Completed			7471A	05/15/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 09:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/15/12 14:28	PER	7440-36-0	
Arsenic	3.32	mg/kg	0.10	6020	05/15/12 14:28	PER	7440-38-2	
Barium	27.8	mg/kg	1.0	6020	05/15/12 14:28	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/15/12 14:28	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/15/12 14:28	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 14:28	PER	7440-43-9	
Chromium	2.49	mg/kg	0.20	6020	05/15/12 14:28	PER	7440-47-3	
Cobalt	2.78	mg/kg	0.20	6020	05/15/12 14:28	PER	7440-48-4	
Copper	8.47	mg/kg	0.20	6020	05/15/12 14:28	PER	7440-50-8	
Lead	4.67	mg/kg	0.20	6020	05/15/12 14:28	PER	7439-92-1	
Manganese	271	mg/kg	0.20	6020	05/15/12 14:28	PER	7439-96-5	
Mercury	0.0086	mg/kg	0.0056	7471A	05/15/12 15:08	JRT	7439-97-6	
Nickel	8.78	mg/kg	0.20	6020	05/15/12 14:28	PER	7440-02-0	
Selenium	0.34	mg/kg	0.20	6020	05/15/12 14:28	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 14:28	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/15/12 14:28	PER	7440-28-0	
Vanadium	4.30	mg/kg	0.20	6020	05/15/12 14:28	PER	7440-62-2	
Zinc	13.3	mg/kg	1.0	6020	05/15/12 14:28	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 18:09	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 18:09	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 18:09	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 18:09	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 18:09	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 18:09	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 18:09	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.12 (continued)

Sample Tag: SB-A5.2-NJ162_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 14:06	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/12/12 14:06	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 14:06	PL	84-66-2	
Dimethyl phthalate	50	ug/kg	40	8270C	05/12/12 14:06	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/12/12 14:06	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/12/12 14:06	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.12 (continued)

Sample Tag: SB-A5.2-NJ162_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 14:06	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 14:06	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.13
Sample Tag: SB-A5.2-NJ162_16-17
Collected Date/Time: 05/07/2012 17:05
Matrix: Soil
COC Reference: 67623

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/10/12 21:08	EMR		
Extraction, PCB	Completed			3550B	05/11/12 14:06	ADB		
Mercury Digestion	Completed			7471A	05/15/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 09:00	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/15/12 14:30	PER	7440-36-0	
Arsenic	1.00	mg/kg	0.10	6020	05/15/12 14:30	PER	7440-38-2	
Barium	4.05	mg/kg	1.0	6020	05/15/12 14:30	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/15/12 14:30	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/15/12 14:30	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 14:30	PER	7440-43-9	
Chromium	0.67	mg/kg	0.21	6020	05/15/12 14:30	PER	7440-47-3	
Cobalt	0.64	mg/kg	0.21	6020	05/15/12 14:30	PER	7440-48-4	
Copper	2.56	mg/kg	0.21	6020	05/15/12 14:30	PER	7440-50-8	
Lead	1.57	mg/kg	0.21	6020	05/15/12 14:30	PER	7439-92-1	
Manganese	70.2	mg/kg	0.21	6020	05/15/12 14:30	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0059	7471A	05/15/12 15:10	JRT	7439-97-6	
Nickel	2.59	mg/kg	0.21	6020	05/15/12 14:30	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/15/12 14:30	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 14:30	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/15/12 14:30	PER	7440-28-0	
Vanadium	0.96	mg/kg	0.21	6020	05/15/12 14:30	PER	7440-62-2	
Zinc	6.42	mg/kg	1.0	6020	05/15/12 14:30	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 18:20	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 18:20	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 18:20	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 18:20	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 18:20	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 18:20	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 18:20	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	98-86-2	



Analytical Laboratory Report

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Lab Sample ID: S52432.13 (continued)

Sample Tag: SB-A5.2-NJ162_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 14:40	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/12/12 14:40	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 14:40	PL	84-66-2	
Dimethyl phthalate	550	ug/kg	40	8270C	05/12/12 14:40	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/12/12 14:40	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/12/12 14:40	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.13 (continued)

Sample Tag: SB-A5.2-NJ162_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 14:40	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 14:40	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.14

Sample Tag: SB-A5.2-NJ162_14.5-18.5

Collected Date/Time: 05/07/2012 17:50

Matrix: Groundwater

COC Reference: 67623

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	3.6	IR
2	40ml Glass	HCL	Yes	3.6	IR
1	125ml Plastic	HNO3	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/09/12 22:27	EMR		
Extraction, PCB	Completed			3510C	05/10/12 08:30	CCM		
Mercury Digestion	Completed			7471A	05/11/12 10:00	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 16:56	SLS	7440-36-0	
Arsenic, Dissolved	0.003	mg/L	0.002	6020	05/10/12 16:56	SLS	7440-38-2	
Barium, Dissolved	0.897	mg/L	0.010	6020	05/10/12 16:56	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 16:56	SLS	7440-41-7	
Boron, Dissolved	0.09	mg/L	0.04	6020	05/10/12 16:56	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 16:56	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 16:56	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 16:56	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 16:56	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 16:56	SLS	7439-92-1	
Manganese, Dissolved	0.701	mg/L	0.010	6020	05/10/12 16:56	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/11/12 14:48	JRT	7439-97-6	
Nickel, Dissolved	0.025	mg/L	0.010	6020	05/10/12 16:56	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 16:56	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 16:56	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 16:56	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 16:56	SLS	7440-62-2	
Zinc, Dissolved	0.108	mg/L	0.010	6020	05/10/12 16:56	SLS	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List Dissolved (Column 1)**

PCB-1016	Not detected	ug/L	0.05	8082A	05/10/12 14:55	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/10/12 14:55	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/10/12 14:55	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/10/12 14:55	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/10/12 14:55	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/10/12 14:55	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/10/12 14:55	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/15/12 14:09	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/15/12 14:09	PL	118-74-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.14 (continued)

Sample Tag: SB-A5.2-NJ162_14.5-18.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/14/12 23:17	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/14/12 23:17	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	05/14/12 23:17	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/14/12 23:17	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	88-75-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.14 (continued)

Sample Tag: SB-A5.2-NJ162_14.5-18.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/14/12 23:17	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.15
Sample Tag: SB-A5.2-DUP16
Collected Date/Time: 05/07/2012 00:01
Matrix: Soil
COC Reference: 67623

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/10/12 21:08	EMR		
Extraction, PCB	Completed			3550B	05/11/12 14:06	ADB		
Mercury Digestion	Completed			7471A	05/15/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 09:00	PER		

Inorganics

Total Solids	79	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/15/12 14:32	PER	7440-36-0	
Arsenic	1.00	mg/kg	0.10	6020	05/15/12 14:32	PER	7440-38-2	
Barium	4.16	mg/kg	1.0	6020	05/15/12 14:32	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/15/12 14:32	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	05/15/12 14:32	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 14:32	PER	7440-43-9	
Chromium	0.74	mg/kg	0.21	6020	05/15/12 14:32	PER	7440-47-3	
Cobalt	0.64	mg/kg	0.21	6020	05/15/12 14:32	PER	7440-48-4	
Copper	2.86	mg/kg	0.21	6020	05/15/12 14:32	PER	7440-50-8	
Lead	1.63	mg/kg	0.21	6020	05/15/12 14:32	PER	7439-92-1	
Manganese	76.2	mg/kg	0.21	6020	05/15/12 14:32	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0063	7471A	05/15/12 15:12	JRT	7439-97-6	
Nickel	2.93	mg/kg	0.21	6020	05/15/12 14:32	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/15/12 14:32	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 14:32	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/15/12 14:32	PER	7440-28-0	
Vanadium	1.10	mg/kg	0.21	6020	05/15/12 14:32	PER	7440-62-2	
Zinc	8.32	mg/kg	1.0	6020	05/15/12 14:32	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 18:30	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 18:30	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 18:30	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 18:30	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 18:30	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 18:30	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 18:30	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.15 (continued)

Sample Tag: SB-A5.2-DUP16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 15:14	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/12/12 15:14	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 15:14	PL	84-66-2	
Dimethyl phthalate	330	ug/kg	40	8270C	05/12/12 15:14	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/12/12 15:14	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/12/12 15:14	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.15 (continued)

Sample Tag: SB-A5.2-DUP16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 15:14	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 15:14	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.16
Sample Tag: SB-A5.2-OG138_0-1
Collected Date/Time: 05/07/2012 09:20
Matrix: Soil
COC Reference: 67625

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/10/12 21:08	EMR		
Extraction, PCB	Completed			3550B	05/11/12 14:06	ADB		
Mercury Digestion	Completed			7471A	05/15/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 09:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/15/12 14:34	PER	7440-36-0	
Arsenic	1.27	mg/kg	0.10	6020	05/15/12 14:34	PER	7440-38-2	
Barium	19.0	mg/kg	1.0	6020	05/15/12 14:34	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/15/12 14:34	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/15/12 14:34	PER	7440-42-8	
Cadmium	1.33	mg/kg	0.10	6020	05/15/12 14:34	PER	7440-43-9	
Chromium	3.25	mg/kg	0.21	6020	05/15/12 14:34	PER	7440-47-3	
Cobalt	1.71	mg/kg	0.21	6020	05/15/12 14:34	PER	7440-48-4	
Copper	11.3	mg/kg	0.21	6020	05/15/12 14:34	PER	7440-50-8	
Lead	55.7	mg/kg	0.21	6020	05/15/12 14:34	PER	7439-92-1	
Manganese	248	mg/kg	0.21	6020	05/15/12 14:34	PER	7439-96-5	
Mercury	0.0111	mg/kg	0.0058	7471A	05/15/12 15:15	JRT	7439-97-6	
Nickel	5.94	mg/kg	0.21	6020	05/15/12 14:34	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/15/12 14:34	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 14:34	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/15/12 14:34	PER	7440-28-0	
Vanadium	2.83	mg/kg	0.21	6020	05/15/12 14:34	PER	7440-62-2	
Zinc	28.6	mg/kg	1.0	6020	05/15/12 14:34	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 18:41	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 18:41	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 18:41	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 18:41	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 18:41	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 18:41	JANB	11097-69-1	
PCB-1260	6	ug/kg	3	8082A	05/11/12 18:41	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	60	ug/kg	40	8270C	05/12/12 21:59	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.16 (continued)

Sample Tag: SB-A5.2-OG138_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	280	ug/kg	40	8270C	05/12/12 21:59	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 21:59	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	100-52-7	
Benzo(a)anthracene	950	ug/kg	40	8270C	05/12/12 21:59	PL	56-55-3	
Benzo(a)pyrene	960	ug/kg	40	8270C	05/12/12 21:59	PL	50-32-8	
Benzo(b)fluoranthene	2,040	ug/kg	40	8270C	05/12/12 21:59	PL	205-99-2	p
Benzo(ghi)perylene	230	ug/kg	40	8270C	05/12/12 21:59	PL	191-24-2	
Benzo(k)fluoranthene	2,090	ug/kg	40	8270C	05/12/12 21:59	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	105-60-2	
Carbazole	170	ug/kg	40	8270C	05/12/12 21:59	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	108-60-1	
Chrysene	1,060	ug/kg	40	8270C	05/12/12 21:59	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	534-52-1	
Dibenzo(ah)anthracene	90	ug/kg	80	8270C	05/12/12 21:59	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 21:59	PL	84-66-2	
Dimethyl phthalate	870	ug/kg	40	8270C	05/12/12 21:59	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	110	ug/kg	80	8270C	05/12/12 21:59	PL	117-81-7	
Fluoranthene	2,130	ug/kg	40	8270C	05/12/12 21:59	PL	206-44-0	
Fluorene	70	ug/kg	40	8270C	05/12/12 21:59	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	250	ug/kg	40	8270C	05/12/12 21:59	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/12/12 21:59	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	88-74-4	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.16 (continued)

Sample Tag: SB-A5.2-OG138_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 21:59	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	87-86-5	
Phenanthrene	1,000	ug/kg	40	8270C	05/12/12 21:59	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	108-95-2	
Pyrene	1,860	ug/kg	40	8270C	05/12/12 21:59	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 21:59	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.17
Sample Tag: SB-A5.2-OA162_1-2
Collected Date/Time: 05/07/2012 10:30
Matrix: Soil
COC Reference: 67625

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/10/12 21:08	EMR		
Extraction, PCB	Completed			3550B	05/11/12 14:06	ADB		
Mercury Digestion	Completed			7471A	05/15/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 09:00	PER		

Inorganics

Total Solids	85	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/15/12 14:42	PER	7440-36-0	
Arsenic	1.12	mg/kg	0.10	6020	05/15/12 14:42	PER	7440-38-2	
Barium	27.9	mg/kg	1.0	6020	05/15/12 14:42	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/15/12 14:42	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/15/12 14:42	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 14:42	PER	7440-43-9	
Chromium	2.59	mg/kg	0.20	6020	05/15/12 14:42	PER	7440-47-3	
Cobalt	8.10	mg/kg	0.20	6020	05/15/12 14:42	PER	7440-48-4	
Copper	4.27	mg/kg	0.20	6020	05/15/12 14:42	PER	7440-50-8	
Lead	4.28	mg/kg	0.20	6020	05/15/12 14:42	PER	7439-92-1	
Manganese	245	mg/kg	0.20	6020	05/15/12 14:42	PER	7439-96-5	
Mercury	0.0112	mg/kg	0.0058	7471A	05/15/12 15:28	JRT	7439-97-6	
Nickel	7.00	mg/kg	0.20	6020	05/15/12 14:42	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/15/12 14:42	PER	7782-49-2	
Silver	0.85	mg/kg	0.10	6020	05/15/12 14:42	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/15/12 14:42	PER	7440-28-0	
Vanadium	4.62	mg/kg	0.20	6020	05/15/12 14:42	PER	7440-62-2	
Zinc	9.19	mg/kg	1.0	6020	05/15/12 14:42	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 18:51	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 18:51	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 18:51	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 18:51	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 18:51	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 18:51	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 18:51	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.17 (continued)

Sample Tag: SB-A5.2-OA162_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 15:48	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/12/12 15:48	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 15:48	PL	84-66-2	
Dimethyl phthalate	270	ug/kg	40	8270C	05/12/12 15:48	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/12/12 15:48	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/12/12 15:48	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.17 (continued)

Sample Tag: SB-A5.2-OA162_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 15:48	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 15:48	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.18
Sample Tag: SB-A5.2-OA162_6-7
Collected Date/Time: 05/07/2012 10:42
Matrix: Soil
COC Reference: 67625

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/10/12 21:08	EMR		
Extraction, PCB	Completed			3550B	05/11/12 14:06	ADB		
Mercury Digestion	Completed			7471A	05/15/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 09:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/15/12 14:45	PER	7440-36-0	
Arsenic	0.44	mg/kg	0.10	6020	05/15/12 14:45	PER	7440-38-2	
Barium	6.70	mg/kg	1.0	6020	05/15/12 14:45	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/15/12 14:45	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/15/12 14:45	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 14:45	PER	7440-43-9	
Chromium	1.41	mg/kg	0.20	6020	05/15/12 14:45	PER	7440-47-3	
Cobalt	0.94	mg/kg	0.20	6020	05/15/12 14:45	PER	7440-48-4	
Copper	3.59	mg/kg	0.20	6020	05/15/12 14:45	PER	7440-50-8	
Lead	1.40	mg/kg	0.20	6020	05/15/12 14:45	PER	7439-92-1	
Manganese	156	mg/kg	0.20	6020	05/15/12 14:45	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0055	7471A	05/15/12 15:30	JRT	7439-97-6	
Nickel	4.58	mg/kg	0.20	6020	05/15/12 14:45	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/15/12 14:45	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 14:45	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/15/12 14:45	PER	7440-28-0	
Vanadium	1.87	mg/kg	0.20	6020	05/15/12 14:45	PER	7440-62-2	
Zinc	2.71	mg/kg	1.0	6020	05/15/12 14:45	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 19:02	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 19:02	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 19:02	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 19:02	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 19:02	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 19:02	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 19:02	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	208-96-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.18 (continued)

Sample Tag: SB-A5.2-OA162_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	98-86-2	X
Anthracene	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	120-12-7	X
Atrazine	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	700	8270C	05/12/12 22:33	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	105-60-2	X
Carbazole	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	108-60-1	X
Chrysene	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	700	8270C	05/12/12 22:33	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	700	8270C	05/12/12 22:33	PL	84-66-2	X
Dimethyl phthalate	500	ug/kg	400	8270C	05/12/12 22:33	PL	131-11-3	XB
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	700	8270C	05/12/12 22:33	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	206-44-0	X
Fluorene	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	193-39-5	X
Isophorone	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	700	8270C	05/12/12 22:33	PL	3/4-Cresol	X

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.18 (continued)

Sample Tag: SB-A5.2-OA162_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	700	8270C	05/12/12 22:33	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	85-01-8	X
Phenol	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	108-95-2	X
Pyrene	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	400	8270C	05/12/12 22:33	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.19

Sample Tag: SB-A5.2-OA162_12-13

Collected Date/Time: 05/07/2012 10:50

Matrix: Soil

COC Reference: 67625

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/10/12 21:08	EMR		
Extraction, PCB	Completed			3550B	05/11/12 14:06	ADB		
Mercury Digestion	Completed			7471A	05/15/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 09:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/15/12 14:47	PER	7440-36-0	
Arsenic	0.73	mg/kg	0.10	6020	05/15/12 14:47	PER	7440-38-2	
Barium	21.4	mg/kg	1.0	6020	05/15/12 14:47	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/15/12 14:47	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/15/12 14:47	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 14:47	PER	7440-43-9	
Chromium	1.93	mg/kg	0.20	6020	05/15/12 14:47	PER	7440-47-3	
Cobalt	1.58	mg/kg	0.20	6020	05/15/12 14:47	PER	7440-48-4	
Copper	6.30	mg/kg	0.20	6020	05/15/12 14:47	PER	7440-50-8	
Lead	3.24	mg/kg	0.20	6020	05/15/12 14:47	PER	7439-92-1	
Manganese	215	mg/kg	0.20	6020	05/15/12 14:47	PER	7439-96-5	
Mercury	0.0071	mg/kg	0.0055	7471A	05/15/12 15:33	JRT	7439-97-6	
Nickel	6.65	mg/kg	0.20	6020	05/15/12 14:47	PER	7440-02-0	
Selenium	0.21	mg/kg	0.20	6020	05/15/12 14:47	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 14:47	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/15/12 14:47	PER	7440-28-0	
Vanadium	3.09	mg/kg	0.20	6020	05/15/12 14:47	PER	7440-62-2	
Zinc	7.97	mg/kg	1.0	6020	05/15/12 14:47	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 19:12	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 19:12	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 19:12	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 19:12	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 19:12	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 19:12	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 19:12	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.19 (continued)

Sample Tag: SB-A5.2-OA162_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 16:21	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/12/12 16:21	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 16:21	PL	84-66-2	
Dimethyl phthalate	130	ug/kg	40	8270C	05/12/12 16:21	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/12/12 16:21	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/12/12 16:21	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.19 (continued)

Sample Tag: SB-A5.2-OA162_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 16:21	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 16:21	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.20
Sample Tag: SB-A5.2-OA162_18-19
Collected Date/Time: 05/07/2012 11:10
Matrix: Soil
COC Reference: 67625

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/10/12 21:08	EMR		
Extraction, PCB	Completed			3550B	05/11/12 14:06	ADB		
Mercury Digestion	Completed			7471A	05/15/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 09:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/15/12 14:49	PER	7440-36-0	
Arsenic	1.61	mg/kg	0.10	6020	05/15/12 14:49	PER	7440-38-2	
Barium	28.4	mg/kg	1.0	6020	05/15/12 14:49	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/15/12 14:49	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/15/12 14:49	PER	7440-42-8	
Cadmium	0.10	mg/kg	0.10	6020	05/15/12 14:49	PER	7440-43-9	
Chromium	2.42	mg/kg	0.21	6020	05/15/12 14:49	PER	7440-47-3	
Cobalt	2.55	mg/kg	0.21	6020	05/15/12 14:49	PER	7440-48-4	
Copper	7.55	mg/kg	0.21	6020	05/15/12 14:49	PER	7440-50-8	
Lead	3.69	mg/kg	0.21	6020	05/15/12 14:49	PER	7439-92-1	
Manganese	210	mg/kg	0.21	6020	05/15/12 14:49	PER	7439-96-5	
Mercury	0.0131	mg/kg	0.0055	7471A	05/15/12 15:35	JRT	7439-97-6	
Nickel	8.46	mg/kg	0.21	6020	05/15/12 14:49	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/15/12 14:49	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 14:49	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/15/12 14:49	PER	7440-28-0	
Vanadium	3.98	mg/kg	0.21	6020	05/15/12 14:49	PER	7440-62-2	
Zinc	11.9	mg/kg	1.0	6020	05/15/12 14:49	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 19:23	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 19:23	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 19:23	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 19:23	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 19:23	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 19:23	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 19:23	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.20 (continued)

Sample Tag: SB-A5.2-OA162_18-19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 16:55	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/12/12 16:55	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 16:55	PL	84-66-2	
Dimethyl phthalate	130	ug/kg	40	8270C	05/12/12 16:55	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/12/12 16:55	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/12/12 16:55	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.20 (continued)

Sample Tag: SB-A5.2-OA162_18-19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 16:55	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 16:55	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.21
Sample Tag: SB-A5.2-OA162_20-21
Collected Date/Time: 05/07/2012 11:15
Matrix: Soil
COC Reference: 67625

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/10/12 21:08	EMR		
Extraction, PCB	Completed			3550B	05/11/12 14:06	ADB		
Mercury Digestion	Completed			7471A	05/15/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 09:00	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/15/12 14:51	PER	7440-36-0	
Arsenic	0.85	mg/kg	0.10	6020	05/15/12 14:51	PER	7440-38-2	
Barium	3.38	mg/kg	1.0	6020	05/15/12 14:51	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/15/12 14:51	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/15/12 14:51	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 14:51	PER	7440-43-9	
Chromium	1.30	mg/kg	0.20	6020	05/15/12 14:51	PER	7440-47-3	
Cobalt	0.74	mg/kg	0.20	6020	05/15/12 14:51	PER	7440-48-4	
Copper	3.16	mg/kg	0.20	6020	05/15/12 14:51	PER	7440-50-8	
Lead	1.89	mg/kg	0.20	6020	05/15/12 14:51	PER	7439-92-1	
Manganese	87.8	mg/kg	0.20	6020	05/15/12 14:51	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0059	7471A	05/15/12 15:37	JRT	7439-97-6	
Nickel	3.54	mg/kg	0.20	6020	05/15/12 14:51	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/15/12 14:51	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 14:51	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/15/12 14:51	PER	7440-28-0	
Vanadium	1.53	mg/kg	0.20	6020	05/15/12 14:51	PER	7440-62-2	
Zinc	5.50	mg/kg	1.0	6020	05/15/12 14:51	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 19:34	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 19:34	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 19:34	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 19:34	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 19:34	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/11/12 19:34	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 19:34	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.21 (continued)

Sample Tag: SB-A5.2-OA162_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 17:29	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/12/12 17:29	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 17:29	PL	84-66-2	
Dimethyl phthalate	150	ug/kg	40	8270C	05/12/12 17:29	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/12/12 17:29	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/12/12 17:29	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.21 (continued)

Sample Tag: SB-A5.2-OA162_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 17:29	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 17:29	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.22
Sample Tag: SB-A5.2-OD154_2-3
Collected Date/Time: 05/07/2012 11:40
Matrix: Soil
COC Reference: 67625

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/10/12 21:08	EMR		
Extraction, PCB	Completed			3550B	05/11/12 14:06	ADB		
Mercury Digestion	Completed			7471A	05/15/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 09:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/15/12 14:53	PER	7440-36-0	
Arsenic	0.52	mg/kg	0.10	6020	05/15/12 14:53	PER	7440-38-2	
Barium	6.15	mg/kg	1.0	6020	05/15/12 14:53	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/15/12 14:53	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/15/12 14:53	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 14:53	PER	7440-43-9	
Chromium	0.89	mg/kg	0.20	6020	05/15/12 14:53	PER	7440-47-3	
Cobalt	1.31	mg/kg	0.20	6020	05/15/12 14:53	PER	7440-48-4	
Copper	1.39	mg/kg	0.20	6020	05/15/12 14:53	PER	7440-50-8	
Lead	4.26	mg/kg	0.20	6020	05/15/12 14:53	PER	7439-92-1	
Manganese	111	mg/kg	0.20	6020	05/15/12 14:53	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0055	7471A	05/15/12 15:39	JRT	7439-97-6	
Nickel	3.63	mg/kg	0.20	6020	05/15/12 14:53	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/15/12 14:53	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 14:53	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/15/12 14:53	PER	7440-28-0	
Vanadium	1.20	mg/kg	0.20	6020	05/15/12 14:53	PER	7440-62-2	
Zinc	2.76	mg/kg	1.0	6020	05/15/12 14:53	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/11/12 19:44	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/11/12 19:44	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/11/12 19:44	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/11/12 19:44	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/11/12 19:44	JANB	12672-29-6	
PCB-1254	20	ug/kg	3	8082A	05/11/12 19:44	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/11/12 19:44	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.22 (continued)

Sample Tag: SB-A5.2-OD154_2-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 18:03	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	100-52-7	
Benzo(a)anthracene	90	ug/kg	40	8270C	05/12/12 18:03	PL	56-55-3	
Benzo(a)pyrene	100	ug/kg	40	8270C	05/12/12 18:03	PL	50-32-8	
Benzo(b)fluoranthene	200	ug/kg	40	8270C	05/12/12 18:03	PL	205-99-2	p
Benzo(ghi)perylene	50	ug/kg	40	8270C	05/12/12 18:03	PL	191-24-2	
Benzo(k)fluoranthene	200	ug/kg	40	8270C	05/12/12 18:03	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	108-60-1	
Chrysene	110	ug/kg	40	8270C	05/12/12 18:03	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/12/12 18:03	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 18:03	PL	84-66-2	
Dimethyl phthalate	170	ug/kg	40	8270C	05/12/12 18:03	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/12/12 18:03	PL	117-81-7	
Fluoranthene	210	ug/kg	40	8270C	05/12/12 18:03	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	50	ug/kg	40	8270C	05/12/12 18:03	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/12/12 18:03	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	88-74-4	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.22 (continued)

Sample Tag: SB-A5.2-OD154_2-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 18:03	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	87-86-5	
Phenanthrene	100	ug/kg	40	8270C	05/12/12 18:03	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	108-95-2	
Pyrene	170	ug/kg	40	8270C	05/12/12 18:03	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 18:03	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.23
Sample Tag: SB-A5.2-OD154_9-13
Collected Date/Time: 05/07/2012 12:17
Matrix: Groundwater
COC Reference: 67625

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	3.6	IR
1	125ml Plastic	HNO3	Yes	3.6	IR
2	40ml Glass	HCL	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/09/12 22:27	EMR		
Extraction, PCB	Completed			3510C	05/10/12 08:30	CCM		
Mercury Digestion	Completed			7471A	05/11/12 10:00	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:00	SLS	7440-36-0	
Arsenic, Dissolved	0.004	mg/L	0.002	6020	05/10/12 17:00	SLS	7440-38-2	
Barium, Dissolved	0.064	mg/L	0.010	6020	05/10/12 17:00	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 17:00	SLS	7440-41-7	
Boron, Dissolved	0.56	mg/L	0.04	6020	05/10/12 17:00	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 17:00	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 17:00	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 17:00	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:00	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:00	SLS	7439-92-1	
Manganese, Dissolved	0.847	mg/L	0.010	6020	05/10/12 17:00	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/11/12 14:50	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 17:00	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:00	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 17:00	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:00	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:00	SLS	7440-62-2	
Zinc, Dissolved	0.022	mg/L	0.010	6020	05/10/12 17:00	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/10/12 15:06	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/10/12 15:06	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/10/12 15:06	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/10/12 15:06	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/10/12 15:06	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/10/12 15:06	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/10/12 15:06	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/15/12 14:36	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/15/12 14:36	PL	118-74-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.23 (continued)

Sample Tag: SB-A5.2-OD154_9-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/14/12 23:46	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/14/12 23:46	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	05/14/12 23:46	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/14/12 23:46	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	88-75-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.23 (continued)

Sample Tag: SB-A5.2-OD154_9-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	129-00-0	
2,4,5-Trichlorophenol	2	ug/L	1	8270C	05/14/12 23:46	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/14/12 23:46	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	100	8260B - SIM	05/16/12 16:12	JGH	123-91-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.24
Sample Tag: SB-A5.2-OD154_9-10
Collected Date/Time: 05/07/2012 12:05
Matrix: Soil
COC Reference: 67625

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/10/12 21:08	EMR		
Extraction, PCB	Completed			3550B	05/11/12 14:06	ADB		
Mercury Digestion	Completed			7471A	05/15/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 09:00	PER		

Inorganics

Total Solids	85	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/15/12 14:55	PER	7440-36-0	
Arsenic	0.43	mg/kg	0.10	6020	05/15/12 14:55	PER	7440-38-2	
Barium	3.54	mg/kg	1.0	6020	05/15/12 14:55	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/15/12 14:55	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/15/12 14:55	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 14:55	PER	7440-43-9	
Chromium	0.92	mg/kg	0.21	6020	05/15/12 14:55	PER	7440-47-3	
Cobalt	0.62	mg/kg	0.21	6020	05/15/12 14:55	PER	7440-48-4	
Copper	2.65	mg/kg	0.21	6020	05/15/12 14:55	PER	7440-50-8	
Lead	1.93	mg/kg	0.21	6020	05/15/12 14:55	PER	7439-92-1	
Manganese	96.8	mg/kg	0.21	6020	05/15/12 14:55	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0058	7471A	05/15/12 15:42	JRT	7439-97-6	
Nickel	2.99	mg/kg	0.21	6020	05/15/12 14:55	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/15/12 14:55	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 14:55	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/15/12 14:55	PER	7440-28-0	
Vanadium	0.99	mg/kg	0.21	6020	05/15/12 14:55	PER	7440-62-2	
Zinc	2.61	mg/kg	1.0	6020	05/15/12 14:55	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	5	8082A	05/14/12 14:42	JANB	12674-11-2	X
PCB-1242	Not detected	ug/kg	5	8082A	05/14/12 14:42	JANB	53469-21-9	X
PCB-1221	Not detected	ug/kg	5	8082A	05/14/12 14:42	JANB	11104-28-2	X
PCB-1232	Not detected	ug/kg	5	8082A	05/14/12 14:42	JANB	11141-16-5	X
PCB-1248	Not detected	ug/kg	5	8082A	05/14/12 14:42	JANB	12672-29-6	X
PCB-1254	Not detected	ug/kg	5	8082A	05/14/12 14:42	JANB	11097-69-1	X
PCB-1260	Not detected	ug/kg	5	8082A	05/14/12 14:42	JANB	11096-82-5	X

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	208-96-8	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.24 (continued)

Sample Tag: SB-A5.2-OD154_9-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	98-86-2	
Anthracene	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	120-12-7	
Atrazine	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	8270C	05/12/12 21:25	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	105-60-2	
Carbazole	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	108-60-1	
Chrysene	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	8270C	05/12/12 21:25	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	8270C	05/12/12 21:25	PL	84-66-2	
Dimethyl phthalate	650	ug/kg	80	8270C	05/12/12 21:25	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	8270C	05/12/12 21:25	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	206-44-0	
Fluorene	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	193-39-5	
Isophorone	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	8270C	05/12/12 21:25	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	88-74-4	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.24 (continued)

Sample Tag: SB-A5.2-OD154_9-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	86-30-6	
Naphthalene	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	8270C	05/12/12 21:25	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	85-01-8	
Phenol	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	108-95-2	
Pyrene	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	80	8270C	05/12/12 21:25	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.25
Sample Tag: SB-A5.2-OD154_15-16
Collected Date/Time: 05/07/2012 12:42
Matrix: Soil
COC Reference: 67625

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/10/12 21:08	EMR		
Extraction, PCB	Completed			3550B	05/11/12 14:06	ADB		
Mercury Digestion	Completed			7471A	05/15/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 09:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/15/12 14:58	PER	7440-36-0	
Arsenic	2.28	mg/kg	0.10	6020	05/15/12 14:58	PER	7440-38-2	
Barium	12.2	mg/kg	1.0	6020	05/15/12 14:58	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/15/12 14:58	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/15/12 14:58	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 14:58	PER	7440-43-9	
Chromium	1.51	mg/kg	0.20	6020	05/15/12 14:58	PER	7440-47-3	
Cobalt	1.66	mg/kg	0.20	6020	05/15/12 14:58	PER	7440-48-4	
Copper	4.43	mg/kg	0.20	6020	05/15/12 14:58	PER	7440-50-8	
Lead	2.71	mg/kg	0.20	6020	05/15/12 14:58	PER	7439-92-1	
Manganese	185	mg/kg	0.20	6020	05/15/12 14:58	PER	7439-96-5	
Mercury	0.0063	mg/kg	0.0055	7471A	05/15/12 15:44	JRT	7439-97-6	
Nickel	6.18	mg/kg	0.20	6020	05/15/12 14:58	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/15/12 14:58	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 14:58	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/15/12 14:58	PER	7440-28-0	
Vanadium	2.49	mg/kg	0.20	6020	05/15/12 14:58	PER	7440-62-2	
Zinc	7.67	mg/kg	1.0	6020	05/15/12 14:58	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/14/12 14:56	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/14/12 14:56	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/14/12 14:56	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/14/12 14:56	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/14/12 14:56	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/14/12 14:56	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/14/12 14:56	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.25 (continued)

Sample Tag: SB-A5.2-OD154_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 18:37	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/12/12 18:37	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 18:37	PL	84-66-2	
Dimethyl phthalate	80	ug/kg	40	8270C	05/12/12 18:37	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/12/12 18:37	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/12/12 18:37	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.25 (continued)

Sample Tag: SB-A5.2-OD154_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 18:37	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 18:37	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.26
Sample Tag: SB-A5.2-OD154_19-20
Collected Date/Time: 05/07/2012 12:50
Matrix: Soil
COC Reference: 67625

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/10/12 21:08	EMR		
Extraction, PCB	Completed			3550B	05/11/12 14:06	ADB		
Mercury Digestion	Completed			7471A	05/15/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 09:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/15/12 15:00	PER	7440-36-0	
Arsenic	1.54	mg/kg	0.10	6020	05/15/12 15:00	PER	7440-38-2	
Barium	16.2	mg/kg	1.0	6020	05/15/12 15:00	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/15/12 15:00	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/15/12 15:00	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 15:00	PER	7440-43-9	
Chromium	2.74	mg/kg	0.20	6020	05/15/12 15:00	PER	7440-47-3	
Cobalt	2.75	mg/kg	0.20	6020	05/15/12 15:00	PER	7440-48-4	
Copper	7.85	mg/kg	0.20	6020	05/15/12 15:00	PER	7440-50-8	
Lead	3.92	mg/kg	0.20	6020	05/15/12 15:00	PER	7439-92-1	
Manganese	229	mg/kg	0.20	6020	05/15/12 15:00	PER	7439-96-5	
Mercury	0.0098	mg/kg	0.0054	7471A	05/15/12 15:46	JRT	7439-97-6	
Nickel	9.88	mg/kg	0.20	6020	05/15/12 15:00	PER	7440-02-0	
Selenium	0.30	mg/kg	0.20	6020	05/15/12 15:00	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 15:00	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/15/12 15:00	PER	7440-28-0	
Vanadium	4.21	mg/kg	0.20	6020	05/15/12 15:00	PER	7440-62-2	
Zinc	12.1	mg/kg	1.0	6020	05/15/12 15:00	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/14/12 15:23	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/14/12 15:23	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/14/12 15:23	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/14/12 15:23	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/14/12 15:23	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/14/12 15:23	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/14/12 15:23	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.26 (continued)

Sample Tag: SB-A5.2-OD154_19-20

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 19:11	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/12/12 19:11	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 19:11	PL	84-66-2	
Dimethyl phthalate	40	ug/kg	40	8270C	05/12/12 19:11	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/12/12 19:11	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/12/12 19:11	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.26 (continued)

Sample Tag: SB-A5.2-OD154_19-20

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 19:11	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 19:11	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.27
Sample Tag: SB-A5.2-DUP15
Collected Date/Time: 05/07/2012 00:01
Matrix: Soil
COC Reference: 67625

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/10/12 21:08	EMR		
Extraction, PCB	Completed			3550B	05/12/12 13:00	ADB		
Mercury Digestion	Completed			7471A	05/15/12 10:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 09:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/08/12 17:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/15/12 15:02	PER	7440-36-0	
Arsenic	0.39	mg/kg	0.10	6020	05/15/12 15:02	PER	7440-38-2	
Barium	5.20	mg/kg	1.0	6020	05/15/12 15:02	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/15/12 15:02	PER	7440-41-7	
Boron	Not detected	mg/kg	3.9	6020	05/15/12 15:02	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 15:02	PER	7440-43-9	
Chromium	0.89	mg/kg	0.20	6020	05/15/12 15:02	PER	7440-47-3	
Cobalt	1.06	mg/kg	0.20	6020	05/15/12 15:02	PER	7440-48-4	
Copper	1.11	mg/kg	0.20	6020	05/15/12 15:02	PER	7440-50-8	
Lead	1.59	mg/kg	0.20	6020	05/15/12 15:02	PER	7439-92-1	
Manganese	74.0	mg/kg	0.20	6020	05/15/12 15:02	PER	7439-96-5	
Mercury	0.0057	mg/kg	0.0054	7471A	05/15/12 15:48	JRT	7439-97-6	
Nickel	2.85	mg/kg	0.20	6020	05/15/12 15:02	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/15/12 15:02	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 15:02	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/15/12 15:02	PER	7440-28-0	
Vanadium	1.20	mg/kg	0.20	6020	05/15/12 15:02	PER	7440-62-2	
Zinc	2.23	mg/kg	1.0	6020	05/15/12 15:02	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/14/12 13:40	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/14/12 13:40	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/14/12 13:40	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/14/12 13:40	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/14/12 13:40	JANB	12672-29-6	
PCB-1254	40	ug/kg	3	8082A	05/14/12 13:40	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/14/12 13:40	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.27 (continued)

Sample Tag: SB-A5.2-DUP15

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 20:14	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	100-52-7	
Benzo(a)anthracene	60	ug/kg	40	8270C	05/12/12 20:14	PL	56-55-3	
Benzo(a)pyrene	60	ug/kg	40	8270C	05/12/12 20:14	PL	50-32-8	
Benzo(b)fluoranthene	120	ug/kg	40	8270C	05/12/12 20:14	PL	205-99-2	p
Benzo(ghi)perylene	40	ug/kg	40	8270C	05/12/12 20:14	PL	191-24-2	
Benzo(k)fluoranthene	120	ug/kg	40	8270C	05/12/12 20:14	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	108-60-1	
Chrysene	60	ug/kg	40	8270C	05/12/12 20:14	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/12/12 20:14	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 20:14	PL	84-66-2	
Dimethyl phthalate	110	ug/kg	40	8270C	05/12/12 20:14	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/12/12 20:14	PL	117-81-7	
Fluoranthene	100	ug/kg	40	8270C	05/12/12 20:14	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	40	ug/kg	40	8270C	05/12/12 20:14	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/12/12 20:14	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	88-74-4	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52432.27 (continued)

Sample Tag: SB-A5.2-DUP15

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 20:14	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	87-86-5	
Phenanthrene	40	ug/kg	40	8270C	05/12/12 20:14	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	108-95-2	
Pyrene	90	ug/kg	40	8270C	05/12/12 20:14	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 20:14	PL	88-06-2	



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C.O.C. PAGE # 1 OF 3

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REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Randy Christensen			
COMPANY ARCADIS			
ADDRESS 10559 Citation Drive Suite 100			
CITY Brighton		STATE MI	ZIP CODE 48116
PHONE NO. 810-225-1910	FAX NO.	P.O. NO. PO125047	
E-MAIL ADDRESS randy.christensen@arcadis-us.com		QUOTE NO. Task# 5	

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208	E-MAIL ADDRESS dfavero@racertrust.org		

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Lansing Plant 2 Project# B0064479 2012	SAMPLER(S) - PLEASE PRINT/SIGN NAME Meryl Hicks / Austin Westhuis
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER	
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER	

MATRIX CODE	GW-GROUNDWATER	WW-WASTEWATER	S-SOIL	L-LIQUID	SD-SOLID
	SL-SLUDGE	DW-DRINKING WATER	O-OIL	WP-WIPE	A-AIR

MERIT LAB NO.	YEAR	DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO3	H2SO4	HF	MeOH	MeOH	OTHER
52432-01	04/12	5/7/12	1045	VAP-A5.1-MW162-32-34	GW	12	3	6	3					
04-02	04/12	5/7/12	1400	VAP-A5.3-DV112-10-12	SW	4	1	2	1					
05-03	04/12	5/7/12	1545	VAP-A5.3-DV112-16-18	SW	4	1	2	1					
06-04	04/12	5/7/12	—	VAP-A5.3-Dup 17	GW	4	1	2	1					
07-05	04/12	5/7/12	1225	VAP-A3-LE73-25-28	GW	3	—	2	1					

1,4 Dioxane	SVOCs	PCBs	Metals (WHD)											
✓	✓	—	✓											
✓	✓	—	✓											
✓	✓	—	✓											
✓	✓	—	✓											
✓	—	—	✓											

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions
MS/MSD

* Note: GW samples for SVOC, PCB, and metals are field filtered
* Note: 1,4-dioxane hold

RELINQUISHED BY: SIGNATURE/ORGANIZATION Austin Westhuis / ARCADIS	DATE 5/8/12	TIME 9:00
RELINQUISHED BY: SIGNATURE/ORGANIZATION SW Merit	DATE 5-8-12	TIME 9:00
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION Andrew Bell	DATE 05/11/12	TIME 0940
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
NOTES:		TEMP ON ARRIVAL 3.6

Merit

Laboratories, Inc.

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C.O.C. PAGE # 2 OF 3

67623

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME **Randy Christensen**

COMPANY **ARCADIS**

ADDRESS **10559 Citation Drive Suite 100**

CITY **Brighton** STATE **MI** ZIP CODE **48116**

PHONE NO. **810-225-1910** FAX NO. **PO125047**

E-MAIL ADDRESS **randy.christensen@arcadis-us.com** QUOTE NO. **Task#: 5**

CONTACT NAME **Dave Favero** ☐ SAME

COMPANY **RACER TRUST**

ADDRESS **2930 Ecorse Road**

CITY **Ypsilanti** STATE **MI** ZIP CODE **48198**

PHONE NO. **313-486-9208** E-MAIL ADDRESS **dfavero@racertrust.org**

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME **Lansing Plant 2 Project# B0064479.2012** SAMPLER(S) - PLEASE PRINT/SIGN NAME **Meryl Hicks**

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW-GROUNDWATER WW-WASTEWATER S-SOIL L-LIQUID SD-SOLID
 SL-SLUDGE DW-DRINKING WATER O-OIL WP-WIPE A-AIR W-WASTE

Containers & Preservatives

MERIT LAB NO. FOR LAB USE ONLY	YEAR	DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NOVE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER
SL432.08	5-12-12	1300		SB-AS.2-ODISY-20-21	S	1	X						
.09	5-7-12	1350		SB-AS.2-OG162-0-1	S	1	X						
.10	5-7-12	1315		SB-AS.2-NJ162-1-2	S	1	X						
.11	5-7-12	1645		SB-AS.2-NJ162-7-8	S	1	X						
.12	5-7-12	1655		SB-AS.2-NJ162-12-13	S	1	X						
.13	5-7-12	1705		SB-AS.2-NJ162-16-17	S	1	X						
.14	5-7-12	1750		SB-AS.2-NJ162-14.5-18.5	Gw	5	X	X	X				
.15	5-7-12	-		SB-AS.2-DUP16	S	1	X						

VOCs

SVOCs

PCBs

Metals (wt/g)

Certifications

☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations

☐ Detroit ☐ New York

Other

Special Instructions

HOLD VOCs for H4 Dioxane
 PCBs, SVOCs, metals field filling

RELINQUISHED BY: *[Signature]* ARCADIS *[Signature]* Merit *[Signature]* DATE **5/8/12** TIME **9:00**

RELINQUISHED BY: *[Signature]* DATE **5-8-12** TIME **9:00**

RELINQUISHED BY: *[Signature]* DATE **5-8-12** TIME **9:00**

RELINQUISHED BY: *[Signature]* DATE **5-8-12** TIME **9:00**

RELINQUISHED BY: *[Signature]* DATE **08 MAY 0910** TIME **0910**

RELINQUISHED BY: *[Signature]* DATE **08 MAY 0910** TIME **0910**

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS **306**

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS **306**

NOTES: TEMP. ON ARRIVAL **306**

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 3 OF 3

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REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME **Randy Christensen**
COMPANY **ARCADIS**
ADDRESS **10559 Citiation Drive Suite 100**
CITY **Brighton** STATE **MI** ZIP CODE **48116**
PHONE NO. **810-225-1910** FAX NO. **PO. NO. PO125047**
E-MAIL ADDRESS **randy.christensen@arcadis-us.com** QUOTE NO. **Task# 5**

CONTACT NAME **Dave Favero** ☐ SAME
COMPANY **RACER TRUST**
ADDRESS **2930 Ecorse Road**
CITY **Ypsilanti** STATE **MI** ZIP CODE **48198**
PHONE NO. **313-486-9208** E-MAIL ADDRESS **dfavero@racertrust.org**

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME **Lansing Plant 2 Project# 80064479.2012** SAMPLER(S) - PLEASE PRINT/SIGN NAME **Meryl Hicks / C. Barton**
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW-GROUNDWATER WW-WASTEWATER S-SOIL L-LIQUID SB-SOLID
SL-SLUDGE DW-DRINKING WATER O-OIL WP-WIPE A-AIR W-WASTE

MERIT LAB NO. FOR LAB USE ONLY	YEAR	DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	PO	HNO3	H2SO4	NaOH	NaOH	OTHER
57432.16	5-7-12	0920		SB-AS.2-06138-0-1	S	1	X						
17	5-7-12	1030		SB-AS.2-0A162-1-2	S	1	X						
18	5-7-12	1042		SB-AS.2-0A162-6-7	S	1	X						
19	5-7-12	1050		SB-AS.2-0A162-12-13	S	1	X						
20	5-7-12	1100		SB-AS.2-0A162-18-19	S	1	V						
21	5-7-12	1115		SB-AS.2-0A162-20-21	S	1	V						
22	5-7-12	1140		SB-AS.2-ODIS4-2-3	S	1	X						
23	5-7-12	1217		SB-AS.2-ODIS4-9-13	GW	5	X	X	X				
24	5-7-12	1205		SB-AS.2-ODIS4-9-10	S	1	X						
25	5-7-12	1242		SB-AS.2-ODIS4-15-16	S	1	X						
26	5-7-12	1250		SB-AS.2-ODIS4-19-20	S	1	X						
27	5-7-12			SB-AS.2-DUPIS	S	1	X						

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions
***AH smt**
HOLD VOCs for 1-4 Day SVOCs, Metals, PCBs - field filtered

RELINQUISHED BY: **ARCADIS** *Sampler DATE **5/8/12** TIME **9:00**
RELINQUISHED BY: **Meryl Hicks** DATE **5-8-12** TIME **9:00**
RELINQUISHED BY: DATE TIME
RELINQUISHED BY: DATE TIME

RELINQUISHED BY: DATE TIME
RELINQUISHED BY: **DFAVERO** DATE **05/08/12** TIME **09:00**
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
NOTES: TEMP. ON ARRIVAL **36**



Analytical Laboratory Report

Supplemental Report

Report ID: S52446.01(03)

Generated on 05/31/2012

Replaces report S52446.01(02) generated on 05/22/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52446.01-S52446.23

Project: Lansing Plant #2 Project# B0064479.2012

Collected Date: 05/08/2012

Submitted Date/Time: 05/09/2012 10:10

Sampled by: Meryl H / Austin W

P.O. #: PO125047

1,4-Dioxane added.

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Supplemental Report

Sample Summary (23 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52446.01	VAP-A5.3-OV112_26-28	Groundwater	05/08/2012 09:10
S52446.02	VAP-A5.3-OV112_34-36	Groundwater	05/08/2012 10:25
S52446.03	VAP-A5.5-NP194_8-10	Groundwater	05/08/2012 16:55
S52446.04	Trip Blank	Groundwater	05/08/2012 00:01
S52446.05	SB-A5.2-NO157_0-1	Soil	05/08/2012 08:05
S52446.06	SB-A5.2-NO150_1-2	Soil	05/08/2012 09:50
S52446.07	SB-A5.2-NO150_7-8	Soil	05/08/2012 10:10
S52446.08	SB-A5.2-NO150_12-13	Soil	05/08/2012 10:15
S52446.09	SB-A5.2-NO150_18-19	Soil	05/08/2012 10:25
S52446.10	SB-A5.2-NO150_18-19 MS	Soil	05/08/2012 10:25
S52446.11	SB-A5.2-NO150_18-19 MSD	Soil	05/08/2012 10:25
S52446.12	SB-A5.2-NO150_24-25	Soil	05/08/2012 10:35
S52446.13	SB-A5.2-NJ145_1-2	Soil	05/08/2012 11:15
S52446.14	SB-A5.2-NJ145_7-8	Soil	05/08/2012 11:30
S52446.15	SB-A5.2-NJ145_15-16	Soil	05/08/2012 11:40
S52446.16	SB-A5.2-NJ145_7-11	Groundwater	05/08/2012 12:30
S52446.17	SB-A5.2-NJ145_21-22	Soil	05/08/2012 13:25
S52446.18	SB-A5.2-DUP18	Soil	05/08/2012 00:01
S52446.19	SB-A5.2-NJ145_16.5-20.5	Groundwater	05/08/2012 14:20
S52446.20	SB-A5.2-NE150_0-1	Soil	05/08/2012 16:15
S52446.21	SB-A5.2-NE150_5-6	Soil	05/08/2012 16:45
S52446.22	SB-A5.2-NE150_11-12	Soil	05/08/2012 16:55
S52446.23	SB-A5.2-DUP19	Soil	05/08/2012 00:01



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.01
Sample Tag: VAP-A5.3-OV112_26-28
Collected Date/Time: 05/08/2012 09:10
Matrix: Groundwater
COC Reference: 67622

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.7	IR
2	40ml Glass	HCL	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/09/12 22:27	EMR		
Mercury Digestion	Completed			7471A	05/11/12 10:00	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:04	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:04	SLS	7440-38-2	
Barium, Dissolved	0.232	mg/L	0.010	6020	05/10/12 17:04	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 17:04	SLS	7440-41-7	
Boron, Dissolved	0.11	mg/L	0.04	6020	05/10/12 17:04	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 17:04	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 17:04	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 17:04	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:04	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:04	SLS	7439-92-1	
Manganese, Dissolved	0.185	mg/L	0.010	6020	05/10/12 17:04	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/11/12 15:03	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 17:04	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:04	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 17:04	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:04	SLS	7440-28-0	
Vanadium, Dissolved	0.002	mg/L	0.002	6020	05/10/12 17:04	SLS	7440-62-2	
Zinc, Dissolved	0.013	mg/L	0.010	6020	05/10/12 17:04	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/15/12 15:05	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/15/12 15:05	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	205-99-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.01 (continued)

Sample Tag: VAP-A5.3-OV112_26-28

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/11/12 16:57	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/11/12 16:57	PL	84-66-2	
Dimethyl phthalate	2	ug/L	2	8270C	05/11/12 16:57	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/11/12 16:57	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	129-00-0	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.01 (continued)

Sample Tag: VAP-A5.3-OV112_26-28

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/11/12 16:57	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.02
Sample Tag: VAP-A5.3-OV112_34-36
Collected Date/Time: 05/08/2012 10:25
Matrix: Groundwater
COC Reference: 67622

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.7	IR
2	40ml Glass	HCL	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/09/12 22:27	EMR		
Mercury Digestion	Completed			7471A	05/11/12 10:00	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:08	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:08	SLS	7440-38-2	
Barium, Dissolved	0.189	mg/L	0.010	6020	05/10/12 17:08	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 17:08	SLS	7440-41-7	
Boron, Dissolved	0.12	mg/L	0.04	6020	05/10/12 17:08	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 17:08	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 17:08	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 17:08	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:08	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:08	SLS	7439-92-1	
Manganese, Dissolved	0.172	mg/L	0.010	6020	05/10/12 17:08	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/11/12 15:05	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 17:08	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:08	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 17:08	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:08	SLS	7440-28-0	
Vanadium, Dissolved	0.003	mg/L	0.002	6020	05/10/12 17:08	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 17:08	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/15/12 15:33	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/15/12 15:33	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	205-99-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.02 (continued)

Sample Tag: VAP-A5.3-OV112_34-36

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/15/12 00:15	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/15/12 00:15	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	05/15/12 00:15	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/15/12 00:15	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	129-00-0	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.02 (continued)

Sample Tag: VAP-A5.3-OV112_34-36

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 00:15	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.03
Sample Tag: VAP-A5.5-NP194_8-10
Collected Date/Time: 05/08/2012 16:55
Matrix: Groundwater
COC Reference: 67622

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.7	IR
2	40ml Glass	HCL	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/09/12 22:27	EMR		
Mercury Digestion	Completed			7471A	05/11/12 10:00	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:12	SLS	7440-36-0	
Arsenic, Dissolved	0.006	mg/L	0.002	6020	05/10/12 17:12	SLS	7440-38-2	
Barium, Dissolved	0.076	mg/L	0.010	6020	05/10/12 17:12	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 17:12	SLS	7440-41-7	
Boron, Dissolved	0.06	mg/L	0.04	6020	05/10/12 17:12	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 17:12	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 17:12	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 17:12	SLS	7440-48-4	
Copper, Dissolved	0.020	mg/L	0.002	6020	05/10/12 17:12	SLS	7440-50-8	
Lead, Dissolved	0.016	mg/L	0.002	6020	05/10/12 17:12	SLS	7439-92-1	
Manganese, Dissolved	0.309	mg/L	0.010	6020	05/10/12 17:12	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/11/12 15:08	JRT	7439-97-6	
Nickel, Dissolved	0.012	mg/L	0.010	6020	05/10/12 17:12	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:12	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 17:12	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:12	SLS	7440-28-0	
Vanadium, Dissolved	0.011	mg/L	0.002	6020	05/10/12 17:12	SLS	7440-62-2	
Zinc, Dissolved	0.091	mg/L	0.010	6020	05/10/12 17:12	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/15/12 16:01	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/15/12 16:01	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	205-99-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.03 (continued)

Sample Tag: VAP-A5.5-NP194_8-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/15/12 00:45	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/15/12 00:45	PL	84-66-2	
Dimethyl phthalate	2	ug/L	2	8270C	05/15/12 00:45	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/15/12 00:45	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	129-00-0	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.03 (continued)

Sample Tag: VAP-A5.5-NP194_8-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 00:45	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	05/30/12 15:24	WAT	123-91-1	1F

1-Run outside of hold time per client request. F-Analysis run outside of holding time



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.04
Sample Tag: Trip Blank
Collected Date/Time: 05/08/2012 00:01
Matrix: Groundwater
COC Reference: 67622

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				05/09/12 11:30	PCS		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.05
Sample Tag: SB-A5.2-NO157_0-1
Collected Date/Time: 05/08/2012 08:05
Matrix: Soil
COC Reference: 67620

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/10/12 21:08	EMR		
Extraction, PCB	Completed			3550B	05/14/12 15:30	ADB		
Mercury Digestion	Completed			7471A	05/15/12 13:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 11:00	PER		

Inorganics

Total Solids	85	%	1	Std M 2540 B	05/09/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/15/12 15:21	PER	7440-36-0	
Arsenic	1.02	mg/kg	0.10	6020	05/15/12 15:21	PER	7440-38-2	
Barium	24.6	mg/kg	1.0	6020	05/15/12 15:21	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/15/12 15:21	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/15/12 15:21	PER	7440-42-8	
Cadmium	0.13	mg/kg	0.10	6020	05/15/12 15:21	PER	7440-43-9	
Chromium	3.30	mg/kg	0.21	6020	05/15/12 15:21	PER	7440-47-3	
Cobalt	3.02	mg/kg	0.21	6020	05/15/12 15:21	PER	7440-48-4	
Copper	6.88	mg/kg	0.21	6020	05/15/12 15:21	PER	7440-50-8	
Lead	25.4	mg/kg	0.21	6020	05/15/12 15:21	PER	7439-92-1	
Manganese	248	mg/kg	0.21	6020	05/15/12 15:21	PER	7439-96-5	
Mercury	0.0296	mg/kg	0.0058	7471A	05/15/12 16:00	JRT	7439-97-6	
Nickel	7.67	mg/kg	0.21	6020	05/15/12 15:21	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/15/12 15:21	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 15:21	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/15/12 15:21	PER	7440-28-0	
Vanadium	3.98	mg/kg	0.21	6020	05/15/12 15:21	PER	7440-62-2	
Zinc	17.2	mg/kg	1.0	6020	05/15/12 15:21	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/14/12 18:14	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/14/12 18:14	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/14/12 18:14	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/14/12 18:14	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/14/12 18:14	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/14/12 18:14	JANB	11097-69-1	
PCB-1260	4	ug/kg	3	8082A	05/14/12 18:14	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	98-86-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.05 (continued)

Sample Tag: SB-A5.2-NO157_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 23:39	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	100-52-7	
Benzo(a)anthracene	150	ug/kg	40	8270C	05/12/12 23:39	PL	56-55-3	
Benzo(a)pyrene	180	ug/kg	40	8270C	05/12/12 23:39	PL	50-32-8	
Benzo(b)fluoranthene	370	ug/kg	40	8270C	05/12/12 23:39	PL	205-99-2	p
Benzo(ghi)perylene	100	ug/kg	40	8270C	05/12/12 23:39	PL	191-24-2	
Benzo(k)fluoranthene	370	ug/kg	40	8270C	05/12/12 23:39	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	108-60-1	
Chrysene	180	ug/kg	40	8270C	05/12/12 23:39	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/12/12 23:39	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 23:39	PL	84-66-2	
Dimethyl phthalate	70	ug/kg	40	8270C	05/12/12 23:39	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/12/12 23:39	PL	117-81-7	
Fluoranthene	310	ug/kg	40	8270C	05/12/12 23:39	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	100	ug/kg	40	8270C	05/12/12 23:39	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/12/12 23:39	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	88-74-4	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.05 (continued)

Sample Tag: SB-A5.2-NO157_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 23:39	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	87-86-5	
Phenanthrene	130	ug/kg	40	8270C	05/12/12 23:39	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	108-95-2	
Pyrene	270	ug/kg	40	8270C	05/12/12 23:39	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 23:39	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.06
Sample Tag: SB-A5.2-NO150_1-2
Collected Date/Time: 05/08/2012 09:50
Matrix: Soil
COC Reference: 67620

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/10/12 21:08	EMR		
Extraction, PCB	Completed			3550B	05/14/12 15:30	ADB		
Mercury Digestion	Completed			7471A	05/15/12 13:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 11:00	PER		

Inorganics

Total Solids	84	%	1	Std M 2540 B	05/09/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/15/12 15:25	PER	7440-36-0	
Arsenic	0.21	mg/kg	0.10	6020	05/15/12 15:25	PER	7440-38-2	
Barium	5.84	mg/kg	1.0	6020	05/15/12 15:25	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/15/12 15:25	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/15/12 15:25	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 15:25	PER	7440-43-9	
Chromium	0.83	mg/kg	0.20	6020	05/15/12 15:25	PER	7440-47-3	
Cobalt	3.81	mg/kg	0.20	6020	05/15/12 15:25	PER	7440-48-4	
Copper	1.85	mg/kg	0.20	6020	05/15/12 15:25	PER	7440-50-8	
Lead	3.93	mg/kg	0.20	6020	05/15/12 15:25	PER	7439-92-1	
Manganese	87.9	mg/kg	0.20	6020	05/15/12 15:25	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.006	7471A	05/15/12 16:02	JRT	7439-97-6	
Nickel	2.54	mg/kg	0.20	6020	05/15/12 15:25	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/15/12 15:25	PER	7782-49-2	
Silver	0.12	mg/kg	0.10	6020	05/15/12 15:25	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/15/12 15:25	PER	7440-28-0	
Vanadium	0.61	mg/kg	0.20	6020	05/15/12 15:25	PER	7440-62-2	
Zinc	5.94	mg/kg	1.0	6020	05/15/12 15:25	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/14/12 18:25	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/14/12 18:25	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/14/12 18:25	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/14/12 18:25	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/14/12 18:25	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/14/12 18:25	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/14/12 18:25	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	98-86-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.06 (continued)

Sample Tag: SB-A5.2-NO150_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 20:43	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	100-52-7	
Benzo(a)anthracene	50	ug/kg	40	8270C	05/12/12 20:43	PL	56-55-3	
Benzo(a)pyrene	50	ug/kg	40	8270C	05/12/12 20:43	PL	50-32-8	
Benzo(b)fluoranthene	90	ug/kg	40	8270C	05/12/12 20:43	PL	205-99-2	p
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	191-24-2	
Benzo(k)fluoranthene	90	ug/kg	40	8270C	05/12/12 20:43	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	108-60-1	
Chrysene	50	ug/kg	40	8270C	05/12/12 20:43	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/12/12 20:43	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 20:43	PL	84-66-2	
Dimethyl phthalate	70	ug/kg	40	8270C	05/12/12 20:43	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/12/12 20:43	PL	117-81-7	
Fluoranthene	110	ug/kg	40	8270C	05/12/12 20:43	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/12/12 20:43	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	88-74-4	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.06 (continued)

Sample Tag: SB-A5.2-NO150_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 20:43	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	87-86-5	
Phenanthrene	70	ug/kg	40	8270C	05/12/12 20:43	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	108-95-2	
Pyrene	100	ug/kg	40	8270C	05/12/12 20:43	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 20:43	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.07
Sample Tag: SB-A5.2-NO150_7-8
Collected Date/Time: 05/08/2012 10:10
Matrix: Soil
COC Reference: 67620

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/10/12 21:08	EMR		
Extraction, PCB	Completed			3550B	05/14/12 15:30	ADB		
Mercury Digestion	Completed			7471A	05/15/12 13:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 11:00	PER		

Inorganics

Total Solids	85	%	1	Std M 2540 B	05/09/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/15/12 15:27	PER	7440-36-0	
Arsenic	0.15	mg/kg	0.10	6020	05/15/12 15:27	PER	7440-38-2	
Barium	6.08	mg/kg	1.0	6020	05/15/12 15:27	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/15/12 15:27	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/15/12 15:27	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 15:27	PER	7440-43-9	
Chromium	0.93	mg/kg	0.20	6020	05/15/12 15:27	PER	7440-47-3	
Cobalt	0.78	mg/kg	0.20	6020	05/15/12 15:27	PER	7440-48-4	
Copper	1.54	mg/kg	0.20	6020	05/15/12 15:27	PER	7440-50-8	
Lead	1.20	mg/kg	0.20	6020	05/15/12 15:27	PER	7439-92-1	
Manganese	65.2	mg/kg	0.20	6020	05/15/12 15:27	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0058	7471A	05/15/12 16:04	JRT	7439-97-6	
Nickel	2.67	mg/kg	0.20	6020	05/15/12 15:27	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/15/12 15:27	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 15:27	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/15/12 15:27	PER	7440-28-0	
Vanadium	1.31	mg/kg	0.20	6020	05/15/12 15:27	PER	7440-62-2	
Zinc	2.69	mg/kg	1.0	6020	05/15/12 15:27	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/14/12 18:35	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/14/12 18:35	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/14/12 18:35	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/14/12 18:35	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/14/12 18:35	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/14/12 18:35	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/14/12 18:35	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	98-86-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.07 (continued)

Sample Tag: SB-A5.2-NO150_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 21:13	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/12/12 21:13	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 21:13	PL	84-66-2	
Dimethyl phthalate	80	ug/kg	40	8270C	05/12/12 21:13	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/12/12 21:13	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/12/12 21:13	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.07 (continued)

Sample Tag: SB-A5.2-NO150_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 21:13	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 21:13	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.08
Sample Tag: SB-A5.2-NO150_12-13
Collected Date/Time: 05/08/2012 10:15
Matrix: Soil
COC Reference: 67620

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/10/12 21:08	EMR		
Extraction, PCB	Completed			3550B	05/14/12 15:30	ADB		
Mercury Digestion	Completed			7471A	05/15/12 13:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 11:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/09/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/15/12 15:30	PER	7440-36-0	
Arsenic	0.86	mg/kg	0.10	6020	05/15/12 15:30	PER	7440-38-2	
Barium	27.6	mg/kg	1.0	6020	05/15/12 15:30	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/15/12 15:30	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/15/12 15:30	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	05/15/12 15:30	PER	7440-43-9	
Chromium	2.92	mg/kg	0.20	6020	05/15/12 15:30	PER	7440-47-3	
Cobalt	2.74	mg/kg	0.20	6020	05/15/12 15:30	PER	7440-48-4	
Copper	10.2	mg/kg	0.20	6020	05/15/12 15:30	PER	7440-50-8	
Lead	5.25	mg/kg	0.20	6020	05/15/12 15:30	PER	7439-92-1	
Manganese	259	mg/kg	0.20	6020	05/15/12 15:30	PER	7439-96-5	
Mercury	0.0086	mg/kg	0.0056	7471A	05/15/12 16:06	JRT	7439-97-6	
Nickel	8.78	mg/kg	0.20	6020	05/15/12 15:30	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/15/12 15:30	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 15:30	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/15/12 15:30	PER	7440-28-0	
Vanadium	4.58	mg/kg	0.20	6020	05/15/12 15:30	PER	7440-62-2	
Zinc	13.8	mg/kg	1.0	6020	05/15/12 15:30	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/14/12 18:46	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/14/12 18:46	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/14/12 18:46	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/14/12 18:46	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/14/12 18:46	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/14/12 18:46	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/14/12 18:46	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	98-86-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.08 (continued)

Sample Tag: SB-A5.2-NO150_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 21:42	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/12/12 21:42	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 21:42	PL	84-66-2	
Dimethyl phthalate	110	ug/kg	40	8270C	05/12/12 21:42	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/12/12 21:42	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/12/12 21:42	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.08 (continued)

Sample Tag: SB-A5.2-NO150_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 21:42	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 21:42	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.09
Sample Tag: SB-A5.2-NO150_18-19
Collected Date/Time: 05/08/2012 10:25
Matrix: Soil
COC Reference: 67620

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/10/12 21:08	EMR		
Extraction, PCB	Completed			3550B	05/14/12 15:30	ADB		
Mercury Digestion	Completed			7471A	05/15/12 13:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 11:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/09/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/15/12 15:32	PER	7440-36-0	
Arsenic	2.25	mg/kg	0.10	6020	05/15/12 15:32	PER	7440-38-2	
Barium	24.8	mg/kg	1.0	6020	05/15/12 15:32	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/15/12 15:32	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/15/12 15:32	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 15:32	PER	7440-43-9	
Chromium	2.39	mg/kg	0.20	6020	05/15/12 15:32	PER	7440-47-3	
Cobalt	2.63	mg/kg	0.20	6020	05/15/12 15:32	PER	7440-48-4	
Copper	7.36	mg/kg	0.20	6020	05/15/12 15:32	PER	7440-50-8	
Lead	3.97	mg/kg	0.20	6020	05/15/12 15:32	PER	7439-92-1	
Manganese	229	mg/kg	0.20	6020	05/15/12 15:32	PER	7439-96-5	
Mercury	0.0075	mg/kg	0.0054	7471A	05/15/12 16:09	JRT	7439-97-6	
Nickel	8.32	mg/kg	0.20	6020	05/15/12 15:32	PER	7440-02-0	
Selenium	0.25	mg/kg	0.20	6020	05/15/12 15:32	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 15:32	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/15/12 15:32	PER	7440-28-0	
Vanadium	3.92	mg/kg	0.20	6020	05/15/12 15:32	PER	7440-62-2	
Zinc	12.6	mg/kg	1.0	6020	05/15/12 15:32	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/14/12 16:50	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/14/12 16:50	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/14/12 16:50	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/14/12 16:50	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/14/12 16:50	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/14/12 16:50	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/14/12 16:50	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	98-86-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.09 (continued)

Sample Tag: SB-A5.2-NO150_18-19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 19:44	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/12/12 19:44	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 19:44	PL	84-66-2	
Dimethyl phthalate	60	ug/kg	40	8270C	05/12/12 19:44	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/12/12 19:44	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/12/12 19:44	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.09 (continued)

Sample Tag: SB-A5.2-NO150_18-19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 19:44	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 19:44	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.10
Sample Tag: SB-A5.2-NO150_18-19 MS
Collected Date/Time: 05/08/2012 10:25
Matrix: Soil
COC Reference: 67620

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/10/12 21:08	EMR		
Extraction, PCB	Completed			3550B	05/14/12 15:30	ADB		
Mercury Digestion	Completed			7471A	05/15/12 13:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 11:00	PER		

Inorganics

Total Solids	85	%	1	Std M 2540 B	05/09/12 16:00	RGS		
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Metals

Antimony	20.1	mg/kg	0.20	6020	05/15/12 15:42	PER	7440-36-0	
Arsenic	24.5	mg/kg	0.10	6020	05/15/12 15:42	PER	7440-38-2	
Barium	44.5	mg/kg	1.0	6020	05/15/12 15:42	PER	7440-39-3	
Beryllium	21.1	mg/kg	0.20	6020	05/15/12 15:42	PER	7440-41-7	
Boron	21.6	mg/kg	4.1	6020	05/15/12 15:42	PER	7440-42-8	
Cadmium	20.8	mg/kg	0.10	6020	05/15/12 15:42	PER	7440-43-9	
Chromium	24.6	mg/kg	0.20	6020	05/15/12 15:42	PER	7440-47-3	
Cobalt	24.4	mg/kg	0.20	6020	05/15/12 15:42	PER	7440-48-4	
Copper	27.0	mg/kg	0.20	6020	05/15/12 15:42	PER	7440-50-8	
Lead	23.1	mg/kg	0.20	6020	05/15/12 15:42	PER	7439-92-1	
Manganese	253	mg/kg	0.20	6020	05/15/12 15:42	PER	7439-96-5	
Mercury	0.1238	mg/kg	0.0058	7471A	05/15/12 16:11	JRT	7439-97-6	
Nickel	29.4	mg/kg	0.20	6020	05/15/12 15:42	PER	7440-02-0	
Selenium	22.2	mg/kg	0.20	6020	05/15/12 15:42	PER	7782-49-2	
Silver	19.6	mg/kg	0.10	6020	05/15/12 15:42	PER	7440-22-4	
Thallium	18.0	mg/kg	0.20	6020	05/15/12 15:42	PER	7440-28-0	
Vanadium	27.4	mg/kg	0.20	6020	05/15/12 15:42	PER	7440-62-2	
Zinc	33.7	mg/kg	1.0	6020	05/15/12 15:42	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	30	ug/kg	3	8082A	05/14/12 17:01	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/14/12 17:01	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/14/12 17:01	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/14/12 17:01	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/14/12 17:01	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/14/12 17:01	JANB	11097-69-1	
PCB-1260	30	ug/kg	3	8082A	05/14/12 17:01	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	1,580	ug/kg	40	8270C	05/12/12 20:18	PL	83-32-9	1
Acenaphthylene	1,620	ug/kg	40	8270C	05/12/12 20:18	PL	208-96-8	1

1-Sample spiked at 1.96 mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.10 (continued)

Sample Tag: SB-A5.2-NO150_18-19 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	930	ug/kg	40	8270C	05/12/12 20:18	PL	98-86-2	1
Anthracene	1,620	ug/kg	40	8270C	05/12/12 20:18	PL	120-12-7	1
Atrazine	1,650	ug/kg	40	8270C	05/12/12 20:18	PL	1912-24-9	1
1,1'-Biphenyl	1,600	ug/kg	40	8270C	05/12/12 20:18	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,590	ug/kg	40	8270C	05/12/12 20:18	PL	101-55-3	1
di-n-Butyl phthalate	1,680	ug/kg	80	8270C	05/12/12 20:18	PL	84-74-2	1
Benzaldehyde	930	ug/kg	40	8270C	05/12/12 20:18	PL	100-52-7	1
Benzo(a)anthracene	1,580	ug/kg	40	8270C	05/12/12 20:18	PL	56-55-3	1
Benzo(a)pyrene	1,450	ug/kg	40	8270C	05/12/12 20:18	PL	50-32-8	1
Benzo(b)fluoranthene	1,620	ug/kg	40	8270C	05/12/12 20:18	PL	205-99-2	1
Benzo(ghi)perylene	1,140	ug/kg	40	8270C	05/12/12 20:18	PL	191-24-2	1
Benzo(k)fluoranthene	1,630	ug/kg	40	8270C	05/12/12 20:18	PL	207-08-9	1
Butyl benzyl phthalate	1,660	ug/kg	40	8270C	05/12/12 20:18	PL	85-68-7	1
2-Chloronaphthalene	1,590	ug/kg	40	8270C	05/12/12 20:18	PL	91-58-7	1
2-Chlorophenol	1,370	ug/kg	40	8270C	05/12/12 20:18	PL	95-57-8	1
4-Chloro-3-methylphenol	1,540	ug/kg	40	8270C	05/12/12 20:18	PL	59-50-7	1
4-Chloroaniline	1,290	ug/kg	40	8270C	05/12/12 20:18	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,660	ug/kg	40	8270C	05/12/12 20:18	PL	7005-72-3	1
Caprolactam	1,570	ug/kg	40	8270C	05/12/12 20:18	PL	105-60-2	1
Carbazole	1,600	ug/kg	40	8270C	05/12/12 20:18	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,400	ug/kg	40	8270C	05/12/12 20:18	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,150	ug/kg	40	8270C	05/12/12 20:18	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,110	ug/kg	40	8270C	05/12/12 20:18	PL	108-60-1	1
Chrysene	1,620	ug/kg	40	8270C	05/12/12 20:18	PL	218-01-9	1
2,4-Dichlorophenol	1,610	ug/kg	40	8270C	05/12/12 20:18	PL	120-83-2	1
2,4-Dimethylphenol	1,430	ug/kg	40	8270C	05/12/12 20:18	PL	105-67-9	1
2,4-Dinitrophenol	920	ug/kg	40	8270C	05/12/12 20:18	PL	51-28-5	1
2,4-Dinitrotoluene	1,720	ug/kg	40	8270C	05/12/12 20:18	PL	121-14-2	1
2,6-Dinitrotoluene	1,730	ug/kg	40	8270C	05/12/12 20:18	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,550	ug/kg	40	8270C	05/12/12 20:18	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,310	ug/kg	40	8270C	05/12/12 20:18	PL	534-52-1	1
Dibenzo(ah)anthracene	1,190	ug/kg	80	8270C	05/12/12 20:18	PL	53-70-3	1
Dibenzofuran	1,690	ug/kg	40	8270C	05/12/12 20:18	PL	132-64-9	1
Diethyl phthalate	1,670	ug/kg	80	8270C	05/12/12 20:18	PL	84-66-2	1
Dimethyl phthalate	2,140	ug/kg	40	8270C	05/12/12 20:18	PL	131-11-3	1B
bis(2-Ethylhexyl)phthalate	1,710	ug/kg	80	8270C	05/12/12 20:18	PL	117-81-7	1
Fluoranthene	1,680	ug/kg	40	8270C	05/12/12 20:18	PL	206-44-0	1
Fluorene	1,670	ug/kg	40	8270C	05/12/12 20:18	PL	86-73-7	1
Hexachlorobenzene	1,480	ug/kg	40	8270C	05/12/12 20:18	PL	118-74-1	1
Hexachlorobutadiene	1,430	ug/kg	40	8270C	05/12/12 20:18	PL	87-68-3	1
Hexachlorocyclopentadiene	870	ug/kg	40	8270C	05/12/12 20:18	PL	77-47-4	1
Hexachloroethane	1,180	ug/kg	40	8270C	05/12/12 20:18	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,230	ug/kg	40	8270C	05/12/12 20:18	PL	193-39-5	1
Isophorone	1,350	ug/kg	40	8270C	05/12/12 20:18	PL	78-59-1	1
2-Methylnaphthalene	1,500	ug/kg	40	8270C	05/12/12 20:18	PL	91-57-6	1
2-Methylphenol	1,360	ug/kg	40	8270C	05/12/12 20:18	PL	95-48-7	1
3-, 4-Methylphenol	2,810	ug/kg	80	8270C	05/12/12 20:18	PL	3/4-Cresol	1

1-Sample spiked at 1.96 mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.10 (continued)
Sample Tag: SB-A5.2-NO150_18-19 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	1,680	ug/kg	40	8270C	05/12/12 20:18	PL	88-74-4	1
2-Nitrophenol	1,490	ug/kg	40	8270C	05/12/12 20:18	PL	88-75-5	1
3-Nitroaniline	1,470	ug/kg	40	8270C	05/12/12 20:18	PL	99-09-2	1
4-Nitroaniline	1,640	ug/kg	40	8270C	05/12/12 20:18	PL	100-01-6	1
4-Nitrophenol	1,230	ug/kg	40	8270C	05/12/12 20:18	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,260	ug/kg	40	8270C	05/12/12 20:18	PL	621-64-7	1
N-Nitrosodiphenylamine	1,390	ug/kg	40	8270C	05/12/12 20:18	PL	86-30-6	1
Naphthalene	1,470	ug/kg	40	8270C	05/12/12 20:18	PL	91-20-3	1
Nitrobenzene	1,400	ug/kg	40	8270C	05/12/12 20:18	PL	98-95-3	1
di-n-Octyl phthalate	1,790	ug/kg	80	8270C	05/12/12 20:18	PL	117-84-0	1
Pentachlorophenol	1,220	ug/kg	40	8270C	05/12/12 20:18	PL	87-86-5	1
Phenanthrene	1,600	ug/kg	40	8270C	05/12/12 20:18	PL	85-01-8	1
Phenol	1,320	ug/kg	40	8270C	05/12/12 20:18	PL	108-95-2	1
Pyrene	1,650	ug/kg	40	8270C	05/12/12 20:18	PL	129-00-0	1
2,4,5-Trichlorophenol	1,770	ug/kg	40	8270C	05/12/12 20:18	PL	95-95-4	1
2,4,6-Trichlorophenol	1,690	ug/kg	40	8270C	05/12/12 20:18	PL	88-06-2	1

1-Sample spiked at 1.96 mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.11

Sample Tag: SB-A5.2-NO150_18-19 MSD

Collected Date/Time: 05/08/2012 10:25

Matrix: Soil

COC Reference: 67620

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/10/12 21:08	EMR		
Extraction, PCB	Completed			3550B	05/14/12 15:30	ADB		
Mercury Digestion	Completed			7471A	05/15/12 13:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 11:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/09/12 16:00	RGS		
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Metals

Antimony	20.1	mg/kg	0.20	6020	05/15/12 15:45	PER	7440-36-0	
Arsenic	24.4	mg/kg	0.10	6020	05/15/12 15:45	PER	7440-38-2	
Barium	44.7	mg/kg	1.0	6020	05/15/12 15:45	PER	7440-39-3	
Beryllium	21.1	mg/kg	0.20	6020	05/15/12 15:45	PER	7440-41-7	
Boron	21.4	mg/kg	4.1	6020	05/15/12 15:45	PER	7440-42-8	
Cadmium	20.7	mg/kg	0.10	6020	05/15/12 15:45	PER	7440-43-9	
Chromium	24.8	mg/kg	0.20	6020	05/15/12 15:45	PER	7440-47-3	
Cobalt	24.7	mg/kg	0.20	6020	05/15/12 15:45	PER	7440-48-4	
Copper	27.4	mg/kg	0.20	6020	05/15/12 15:45	PER	7440-50-8	
Lead	22.8	mg/kg	0.20	6020	05/15/12 15:45	PER	7439-92-1	
Manganese	251	mg/kg	0.20	6020	05/15/12 15:45	PER	7439-96-5	
Mercury	0.1174	mg/kg	0.0054	7471A	05/15/12 16:13	JRT	7439-97-6	
Nickel	30.1	mg/kg	0.20	6020	05/15/12 15:45	PER	7440-02-0	
Selenium	22.0	mg/kg	0.20	6020	05/15/12 15:45	PER	7782-49-2	
Silver	19.7	mg/kg	0.10	6020	05/15/12 15:45	PER	7440-22-4	
Thallium	18.0	mg/kg	0.20	6020	05/15/12 15:45	PER	7440-28-0	
Vanadium	27.5	mg/kg	0.20	6020	05/15/12 15:45	PER	7440-62-2	
Zinc	35.1	mg/kg	1.0	6020	05/15/12 15:45	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	30	ug/kg	3	8082A	05/14/12 17:11	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/14/12 17:11	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/14/12 17:11	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/14/12 17:11	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/14/12 17:11	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/14/12 17:11	JANB	11097-69-1	
PCB-1260	30	ug/kg	3	8082A	05/14/12 17:11	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,540	ug/kg	40	8270C	05/12/12 20:52	PL	83-32-9	1
Acenaphthylene	1,590	ug/kg	40	8270C	05/12/12 20:52	PL	208-96-8	1

1-Sample spiked at 1.83 mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.11 (continued)

Sample Tag: SB-A5.2-NO150_18-19 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	1,340	ug/kg	40	8270C	05/12/12 20:52	PL	98-86-2	1
Anthracene	1,620	ug/kg	40	8270C	05/12/12 20:52	PL	120-12-7	1
Atrazine	1,670	ug/kg	40	8270C	05/12/12 20:52	PL	1912-24-9	1
1,1'-Biphenyl	1,570	ug/kg	40	8270C	05/12/12 20:52	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,580	ug/kg	40	8270C	05/12/12 20:52	PL	101-55-3	1
di-n-Butyl phthalate	1,690	ug/kg	70	8270C	05/12/12 20:52	PL	84-74-2	1
Benzaldehyde	940	ug/kg	40	8270C	05/12/12 20:52	PL	100-52-7	1
Benzo(a)anthracene	1,620	ug/kg	40	8270C	05/12/12 20:52	PL	56-55-3	1
Benzo(a)pyrene	1,480	ug/kg	40	8270C	05/12/12 20:52	PL	50-32-8	1
Benzo(b)fluoranthene	1,710	ug/kg	40	8270C	05/12/12 20:52	PL	205-99-2	1
Benzo(ghi)perylene	1,100	ug/kg	40	8270C	05/12/12 20:52	PL	191-24-2	1
Benzo(k)fluoranthene	1,610	ug/kg	40	8270C	05/12/12 20:52	PL	207-08-9	1
Butyl benzyl phthalate	1,670	ug/kg	40	8270C	05/12/12 20:52	PL	85-68-7	1
2-Chloronaphthalene	1,550	ug/kg	40	8270C	05/12/12 20:52	PL	91-58-7	1
2-Chlorophenol	1,350	ug/kg	40	8270C	05/12/12 20:52	PL	95-57-8	1
4-Chloro-3-methylphenol	1,520	ug/kg	40	8270C	05/12/12 20:52	PL	59-50-7	1
4-Chloroaniline	1,290	ug/kg	40	8270C	05/12/12 20:52	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,630	ug/kg	40	8270C	05/12/12 20:52	PL	7005-72-3	1
Caprolactam	1,550	ug/kg	40	8270C	05/12/12 20:52	PL	105-60-2	1
Carbazole	1,630	ug/kg	40	8270C	05/12/12 20:52	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,360	ug/kg	40	8270C	05/12/12 20:52	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,140	ug/kg	40	8270C	05/12/12 20:52	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,100	ug/kg	40	8270C	05/12/12 20:52	PL	108-60-1	1
Chrysene	1,650	ug/kg	40	8270C	05/12/12 20:52	PL	218-01-9	1
2,4-Dichlorophenol	1,580	ug/kg	40	8270C	05/12/12 20:52	PL	120-83-2	1
2,4-Dimethylphenol	1,440	ug/kg	40	8270C	05/12/12 20:52	PL	105-67-9	1
2,4-Dinitrophenol	800	ug/kg	40	8270C	05/12/12 20:52	PL	51-28-5	1
2,4-Dinitrotoluene	1,710	ug/kg	40	8270C	05/12/12 20:52	PL	121-14-2	1
2,6-Dinitrotoluene	1,700	ug/kg	40	8270C	05/12/12 20:52	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,610	ug/kg	40	8270C	05/12/12 20:52	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,300	ug/kg	40	8270C	05/12/12 20:52	PL	534-52-1	1
Dibenzo(ah)anthracene	1,180	ug/kg	70	8270C	05/12/12 20:52	PL	53-70-3	1
Dibenzofuran	1,650	ug/kg	40	8270C	05/12/12 20:52	PL	132-64-9	1
Diethyl phthalate	1,660	ug/kg	70	8270C	05/12/12 20:52	PL	84-66-2	1
Dimethyl phthalate	1,990	ug/kg	40	8270C	05/12/12 20:52	PL	131-11-3	1B
bis(2-Ethylhexyl)phthalate	1,730	ug/kg	70	8270C	05/12/12 20:52	PL	117-81-7	1
Fluoranthene	1,700	ug/kg	40	8270C	05/12/12 20:52	PL	206-44-0	1
Fluorene	1,640	ug/kg	40	8270C	05/12/12 20:52	PL	86-73-7	1
Hexachlorobenzene	1,490	ug/kg	40	8270C	05/12/12 20:52	PL	118-74-1	1
Hexachlorobutadiene	1,430	ug/kg	40	8270C	05/12/12 20:52	PL	87-68-3	1
Hexachlorocyclopentadiene	880	ug/kg	40	8270C	05/12/12 20:52	PL	77-47-4	1
Hexachloroethane	1,190	ug/kg	40	8270C	05/12/12 20:52	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,200	ug/kg	40	8270C	05/12/12 20:52	PL	193-39-5	1
Isophorone	1,320	ug/kg	40	8270C	05/12/12 20:52	PL	78-59-1	1
2-Methylnaphthalene	1,470	ug/kg	40	8270C	05/12/12 20:52	PL	91-57-6	1
2-Methylphenol	1,320	ug/kg	40	8270C	05/12/12 20:52	PL	95-48-7	1
3-, 4-Methylphenol	2,750	ug/kg	70	8270C	05/12/12 20:52	PL	3/4-Cresol	1

1-Sample spiked at 1.83 mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.11 (continued)
Sample Tag: SB-A5.2-NO150_18-19 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	1,670	ug/kg	40	8270C	05/12/12 20:52	PL	88-74-4	1
2-Nitrophenol	1,470	ug/kg	40	8270C	05/12/12 20:52	PL	88-75-5	1
3-Nitroaniline	1,450	ug/kg	40	8270C	05/12/12 20:52	PL	99-09-2	1
4-Nitroaniline	1,670	ug/kg	40	8270C	05/12/12 20:52	PL	100-01-6	1
4-Nitrophenol	1,240	ug/kg	40	8270C	05/12/12 20:52	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,240	ug/kg	40	8270C	05/12/12 20:52	PL	621-64-7	1
N-Nitrosodiphenylamine	1,380	ug/kg	40	8270C	05/12/12 20:52	PL	86-30-6	1
Naphthalene	1,450	ug/kg	40	8270C	05/12/12 20:52	PL	91-20-3	1
Nitrobenzene	1,380	ug/kg	40	8270C	05/12/12 20:52	PL	98-95-3	1
di-n-Octyl phthalate	1,820	ug/kg	70	8270C	05/12/12 20:52	PL	117-84-0	1
Pentachlorophenol	1,250	ug/kg	40	8270C	05/12/12 20:52	PL	87-86-5	1
Phenanthrene	1,600	ug/kg	40	8270C	05/12/12 20:52	PL	85-01-8	1
Phenol	1,300	ug/kg	40	8270C	05/12/12 20:52	PL	108-95-2	1
Pyrene	1,660	ug/kg	40	8270C	05/12/12 20:52	PL	129-00-0	1
2,4,5-Trichlorophenol	1,720	ug/kg	40	8270C	05/12/12 20:52	PL	95-95-4	1
2,4,6-Trichlorophenol	1,680	ug/kg	40	8270C	05/12/12 20:52	PL	88-06-2	1

1-Sample spiked at 1.83 mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.12
Sample Tag: SB-A5.2-NO150_24-25
Collected Date/Time: 05/08/2012 10:35
Matrix: Soil
COC Reference: 67620

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:53	EMR		
Extraction, PCB	Completed			3550B	05/14/12 15:30	ADB		
Mercury Digestion	Completed			7471A	05/15/12 13:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 11:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/09/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/15/12 15:53	PER	7440-36-0	
Arsenic	2.11	mg/kg	0.10	6020	05/15/12 15:53	PER	7440-38-2	
Barium	21.2	mg/kg	1.0	6020	05/15/12 15:53	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/15/12 15:53	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/15/12 15:53	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 15:53	PER	7440-43-9	
Chromium	1.99	mg/kg	0.20	6020	05/15/12 15:53	PER	7440-47-3	
Cobalt	2.07	mg/kg	0.20	6020	05/15/12 15:53	PER	7440-48-4	
Copper	6.39	mg/kg	0.20	6020	05/15/12 15:53	PER	7440-50-8	
Lead	3.44	mg/kg	0.20	6020	05/15/12 15:53	PER	7439-92-1	
Manganese	217	mg/kg	0.20	6020	05/15/12 15:53	PER	7439-96-5	
Mercury	0.0072	mg/kg	0.0054	7471A	05/15/12 16:20	JRT	7439-97-6	
Nickel	7.26	mg/kg	0.20	6020	05/15/12 15:53	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/15/12 15:53	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 15:53	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/15/12 15:53	PER	7440-28-0	
Vanadium	3.35	mg/kg	0.20	6020	05/15/12 15:53	PER	7440-62-2	
Zinc	15.2	mg/kg	1.0	6020	05/15/12 15:53	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/14/12 18:57	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/14/12 18:57	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/14/12 18:57	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/14/12 18:57	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/14/12 18:57	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/14/12 18:57	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/14/12 18:57	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	98-86-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.12 (continued)

Sample Tag: SB-A5.2-NO150_24-25

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 14:52	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/12/12 14:52	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 14:52	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/12/12 14:52	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/12/12 14:52	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	99-09-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.12 (continued)

Sample Tag: SB-A5.2-NO150_24-25

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 14:52	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 14:52	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.13
Sample Tag: SB-A5.2-NJ145_1-2
Collected Date/Time: 05/08/2012 11:15
Matrix: Soil
COC Reference: 67620

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:53	EMR		
Extraction, PCB	Completed			3550B	05/14/12 15:30	ADB		
Mercury Digestion	Completed			7471A	05/15/12 13:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 11:00	PER		

Inorganics

Total Solids	93	%	1	Std M 2540 B	05/09/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/15/12 15:56	PER	7440-36-0	
Arsenic	1.00	mg/kg	0.10	6020	05/15/12 15:56	PER	7440-38-2	
Barium	8.33	mg/kg	1.0	6020	05/15/12 15:56	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/15/12 15:56	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/15/12 15:56	PER	7440-42-8	
Cadmium	0.12	mg/kg	0.10	6020	05/15/12 15:56	PER	7440-43-9	
Chromium	1.36	mg/kg	0.20	6020	05/15/12 15:56	PER	7440-47-3	
Cobalt	7.71	mg/kg	0.20	6020	05/15/12 15:56	PER	7440-48-4	
Copper	2.58	mg/kg	0.20	6020	05/15/12 15:56	PER	7440-50-8	
Lead	8.48	mg/kg	0.20	6020	05/15/12 15:56	PER	7439-92-1	
Manganese	132	mg/kg	0.20	6020	05/15/12 15:56	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0052	7471A	05/15/12 16:22	JRT	7439-97-6	
Nickel	4.51	mg/kg	0.20	6020	05/15/12 15:56	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/15/12 15:56	PER	7782-49-2	
Silver	0.78	mg/kg	0.10	6020	05/15/12 15:56	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/15/12 15:56	PER	7440-28-0	
Vanadium	1.56	mg/kg	0.20	6020	05/15/12 15:56	PER	7440-62-2	
Zinc	8.28	mg/kg	1.0	6020	05/15/12 15:56	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/14/12 19:07	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/14/12 19:07	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/14/12 19:07	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/14/12 19:07	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/14/12 19:07	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/14/12 19:07	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/14/12 19:07	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	98-86-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.13 (continued)

Sample Tag: SB-A5.2-NJ145_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 15:21	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	50-32-8	
Benzo(b)fluoranthene	60	ug/kg	40	8270C	05/12/12 15:21	PL	205-99-2	p
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	191-24-2	
Benzo(k)fluoranthene	60	ug/kg	40	8270C	05/12/12 15:21	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	108-60-1	
Chrysene	40	ug/kg	40	8270C	05/12/12 15:21	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/12/12 15:21	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 15:21	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/12/12 15:21	PL	117-81-7	
Fluoranthene	60	ug/kg	40	8270C	05/12/12 15:21	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/12/12 15:21	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	88-75-5	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.13 (continued)

Sample Tag: SB-A5.2-NJ145_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 15:21	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	108-95-2	
Pyrene	60	ug/kg	40	8270C	05/12/12 15:21	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 15:21	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.14
Sample Tag: SB-A5.2-NJ145_7-8
Collected Date/Time: 05/08/2012 11:30
Matrix: Soil
COC Reference: 67620

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:53	EMR		
Extraction, PCB	Completed			3550B	05/14/12 15:30	ADB		
Mercury Digestion	Completed			7471A	05/15/12 13:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 11:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/09/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/15/12 15:58	PER	7440-36-0	
Arsenic	0.70	mg/kg	0.10	6020	05/15/12 15:58	PER	7440-38-2	
Barium	13.9	mg/kg	1.0	6020	05/15/12 15:58	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/15/12 15:58	PER	7440-41-7	
Boron	Not detected	mg/kg	3.9	6020	05/15/12 15:58	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 15:58	PER	7440-43-9	
Chromium	2.74	mg/kg	0.20	6020	05/15/12 15:58	PER	7440-47-3	
Cobalt	1.63	mg/kg	0.20	6020	05/15/12 15:58	PER	7440-48-4	
Copper	9.85	mg/kg	0.20	6020	05/15/12 15:58	PER	7440-50-8	
Lead	38.9	mg/kg	0.20	6020	05/15/12 15:58	PER	7439-92-1	
Manganese	146	mg/kg	0.20	6020	05/15/12 15:58	PER	7439-96-5	
Mercury	0.0131	mg/kg	0.0056	7471A	05/15/12 16:25	JRT	7439-97-6	
Nickel	9.54	mg/kg	0.20	6020	05/15/12 15:58	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/15/12 15:58	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 15:58	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/15/12 15:58	PER	7440-28-0	
Vanadium	3.73	mg/kg	0.20	6020	05/15/12 15:58	PER	7440-62-2	
Zinc	71.0	mg/kg	1.0	6020	05/15/12 15:58	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 14:37	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 14:37	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 14:37	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 14:37	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 14:37	JANB	12672-29-6	
PCB-1254	7	ug/kg	3	8082A	05/15/12 14:37	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 14:37	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	208-96-8	
Acetophenone	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	98-86-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.14 (continued)

Sample Tag: SB-A5.2-NJ145_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	120-12-7	
Atrazine	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	400	8270C	05/12/12 22:11	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	105-60-2	
Carbazole	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	108-60-1	
Chrysene	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	400	8270C	05/12/12 22:11	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	400	8270C	05/12/12 22:11	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	400	8270C	05/12/12 22:11	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	206-44-0	
Fluorene	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	193-39-5	
Isophorone	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	400	8270C	05/12/12 22:11	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	88-75-5	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.14 (continued)

Sample Tag: SB-A5.2-NJ145_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	86-30-6	
Naphthalene	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	400	8270C	05/12/12 22:11	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	85-01-8	
Phenol	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	108-95-2	
Pyrene	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	200	8270C	05/12/12 22:11	PL	88-06-2	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.15
Sample Tag: SB-A5.2-NJ145_15-16
Collected Date/Time: 05/08/2012 11:40
Matrix: Soil
COC Reference: 67620

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:53	EMR		
Extraction, PCB	Completed			3550B	05/14/12 15:30	ADB		
Mercury Digestion	Completed			7471A	05/15/12 13:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 11:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/09/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/15/12 16:00	PER	7440-36-0	
Arsenic	1.29	mg/kg	0.10	6020	05/15/12 16:00	PER	7440-38-2	
Barium	28.9	mg/kg	1.0	6020	05/15/12 16:00	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/15/12 16:00	PER	7440-41-7	
Boron	Not detected	mg/kg	3.9	6020	05/15/12 16:00	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 16:00	PER	7440-43-9	
Chromium	2.63	mg/kg	0.20	6020	05/15/12 16:00	PER	7440-47-3	
Cobalt	2.54	mg/kg	0.20	6020	05/15/12 16:00	PER	7440-48-4	
Copper	9.71	mg/kg	0.20	6020	05/15/12 16:00	PER	7440-50-8	
Lead	4.50	mg/kg	0.20	6020	05/15/12 16:00	PER	7439-92-1	
Manganese	314	mg/kg	0.20	6020	05/15/12 16:00	PER	7439-96-5	
Mercury	0.0088	mg/kg	0.0056	7471A	05/15/12 16:27	JRT	7439-97-6	
Nickel	9.34	mg/kg	0.20	6020	05/15/12 16:00	PER	7440-02-0	
Selenium	0.29	mg/kg	0.20	6020	05/15/12 16:00	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 16:00	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/15/12 16:00	PER	7440-28-0	
Vanadium	4.48	mg/kg	0.20	6020	05/15/12 16:00	PER	7440-62-2	
Zinc	12.8	mg/kg	1.0	6020	05/15/12 16:00	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/14/12 19:18	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/14/12 19:18	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/14/12 19:18	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/14/12 19:18	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/14/12 19:18	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/14/12 19:18	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/14/12 19:18	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	98-86-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.15 (continued)

Sample Tag: SB-A5.2-NJ145_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 15:51	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/12/12 15:51	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 15:51	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/12/12 15:51	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/12/12 15:51	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	99-09-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.15 (continued)

Sample Tag: SB-A5.2-NJ145_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 15:51	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 15:51	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.16
Sample Tag: SB-A5.2-NJ145_7-11
Collected Date/Time: 05/08/2012 12:30
Matrix: Groundwater
COC Reference: 67620

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.7	IR
2	40ml Glass	HCL	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/09/12 22:27	EMR		
Extraction, PCB	Completed			3510C	05/10/12 13:00	CCM		
Mercury Digestion	Completed			7471A	05/11/12 10:00	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:17	SLS	7440-36-0	
Arsenic, Dissolved	0.002	mg/L	0.002	6020	05/10/12 17:17	SLS	7440-38-2	
Barium, Dissolved	0.098	mg/L	0.010	6020	05/10/12 17:17	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 17:17	SLS	7440-41-7	
Boron, Dissolved	0.07	mg/L	0.04	6020	05/10/12 17:17	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 17:17	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 17:17	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 17:17	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:17	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:17	SLS	7439-92-1	
Manganese, Dissolved	0.486	mg/L	0.010	6020	05/10/12 17:17	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/11/12 15:10	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 17:17	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:17	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 17:17	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:17	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:17	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 17:17	SLS	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List Dissolved (Column 1)**

PCB-1016	Not detected	ug/L	0.05	8082A	05/10/12 17:13	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/10/12 17:13	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/10/12 17:13	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/10/12 17:13	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/10/12 17:13	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/10/12 17:13	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/10/12 17:13	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/15/12 16:28	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/15/12 16:28	PL	118-74-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.16 (continued)

Sample Tag: SB-A5.2-NJ145_7-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/15/12 01:14	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/15/12 01:14	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	05/15/12 01:14	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/15/12 01:14	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	88-75-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.16 (continued)

Sample Tag: SB-A5.2-NJ145_7-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 01:14	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	5	ug/L	5	8260B - SIM	05/30/12 15:43	WAT	123-91-1	1F

1-Run outside of hold time per client request. F-Analysis run outside of holding time



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.17
Sample Tag: SB-A5.2-NJ145_21-22
Collected Date/Time: 05/08/2012 13:25
Matrix: Soil
COC Reference: 67620

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:53	EMR		
Extraction, PCB	Completed			3550B	05/14/12 15:30	ADB		
Mercury Digestion	Completed			7471A	05/15/12 13:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 11:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/09/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/15/12 16:02	PER	7440-36-0	
Arsenic	0.80	mg/kg	0.10	6020	05/15/12 16:02	PER	7440-38-2	
Barium	18.8	mg/kg	1.0	6020	05/15/12 16:02	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/15/12 16:02	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/15/12 16:02	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 16:02	PER	7440-43-9	
Chromium	3.19	mg/kg	0.21	6020	05/15/12 16:02	PER	7440-47-3	
Cobalt	1.93	mg/kg	0.21	6020	05/15/12 16:02	PER	7440-48-4	
Copper	7.75	mg/kg	0.21	6020	05/15/12 16:02	PER	7440-50-8	
Lead	4.58	mg/kg	0.21	6020	05/15/12 16:02	PER	7439-92-1	
Manganese	208	mg/kg	0.21	6020	05/15/12 16:02	PER	7439-96-5	
Mercury	0.0075	mg/kg	0.0056	7471A	05/15/12 16:29	JRT	7439-97-6	
Nickel	7.77	mg/kg	0.21	6020	05/15/12 16:02	PER	7440-02-0	
Selenium	0.23	mg/kg	0.21	6020	05/15/12 16:02	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 16:02	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/15/12 16:02	PER	7440-28-0	
Vanadium	3.61	mg/kg	0.21	6020	05/15/12 16:02	PER	7440-62-2	
Zinc	11.7	mg/kg	1.0	6020	05/15/12 16:02	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/14/12 19:28	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/14/12 19:28	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/14/12 19:28	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/14/12 19:28	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/14/12 19:28	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/14/12 19:28	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/14/12 19:28	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	98-86-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.17 (continued)

Sample Tag: SB-A5.2-NJ145_21-22

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 16:20	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/12/12 16:20	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 16:20	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/12/12 16:20	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/12/12 16:20	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	99-09-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.17 (continued)

Sample Tag: SB-A5.2-NJ145_21-22

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 16:20	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 16:20	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.18
Sample Tag: SB-A5.2-DUP18
Collected Date/Time: 05/08/2012 00:01
Matrix: Soil
COC Reference: 67620

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:53	EMR		
Extraction, PCB	Completed			3550B	05/14/12 15:30	ADB		
Mercury Digestion	Completed			7471A	05/15/12 13:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 11:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/09/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/15/12 16:04	PER	7440-36-0	
Arsenic	1.23	mg/kg	0.10	6020	05/15/12 16:04	PER	7440-38-2	
Barium	5.09	mg/kg	1.0	6020	05/15/12 16:04	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/15/12 16:04	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/15/12 16:04	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 16:04	PER	7440-43-9	
Chromium	0.97	mg/kg	0.20	6020	05/15/12 16:04	PER	7440-47-3	
Cobalt	1.21	mg/kg	0.20	6020	05/15/12 16:04	PER	7440-48-4	
Copper	2.44	mg/kg	0.20	6020	05/15/12 16:04	PER	7440-50-8	
Lead	1.88	mg/kg	0.20	6020	05/15/12 16:04	PER	7439-92-1	
Manganese	124	mg/kg	0.20	6020	05/15/12 16:04	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0056	7471A	05/15/12 16:31	JRT	7439-97-6	
Nickel	4.52	mg/kg	0.20	6020	05/15/12 16:04	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/15/12 16:04	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 16:04	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/15/12 16:04	PER	7440-28-0	
Vanadium	1.45	mg/kg	0.20	6020	05/15/12 16:04	PER	7440-62-2	
Zinc	3.55	mg/kg	1.0	6020	05/15/12 16:04	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/14/12 19:39	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/14/12 19:39	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/14/12 19:39	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/14/12 19:39	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/14/12 19:39	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/14/12 19:39	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/14/12 19:39	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	98-86-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.18 (continued)

Sample Tag: SB-A5.2-DUP18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 16:49	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	100-52-7	
Benzo(a)anthracene	40	ug/kg	40	8270C	05/12/12 16:49	PL	56-55-3	
Benzo(a)pyrene	40	ug/kg	40	8270C	05/12/12 16:49	PL	50-32-8	
Benzo(b)fluoranthene	90	ug/kg	40	8270C	05/12/12 16:49	PL	205-99-2	p
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	191-24-2	
Benzo(k)fluoranthene	90	ug/kg	40	8270C	05/12/12 16:49	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	108-60-1	
Chrysene	50	ug/kg	40	8270C	05/12/12 16:49	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/12/12 16:49	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 16:49	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/12/12 16:49	PL	117-81-7	
Fluoranthene	80	ug/kg	40	8270C	05/12/12 16:49	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/12/12 16:49	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	88-75-5	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.18 (continued)

Sample Tag: SB-A5.2-DUP18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 16:49	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	87-86-5	
Phenanthrene	40	ug/kg	40	8270C	05/12/12 16:49	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	108-95-2	
Pyrene	70	ug/kg	40	8270C	05/12/12 16:49	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 16:49	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.19
Sample Tag: SB-A5.2-NJ145_16.5-20.5
Collected Date/Time: 05/08/2012 14:20
Matrix: Groundwater
COC Reference: 67617

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.7	IR
2	40ml Glass	HCL	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/09/12 22:27	EMR		
Extraction, PCB	Completed			3510C	05/10/12 13:00	CCM		
Mercury Digestion	Completed			7471A	05/11/12 10:00	JRH		
Metal Digestion	Completed			3015A	05/09/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:21	SLS	7440-36-0	
Arsenic, Dissolved	0.007	mg/L	0.002	6020	05/10/12 17:21	SLS	7440-38-2	
Barium, Dissolved	0.198	mg/L	0.010	6020	05/10/12 17:21	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 17:21	SLS	7440-41-7	
Boron, Dissolved	0.07	mg/L	0.04	6020	05/10/12 17:21	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/10/12 17:21	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 17:21	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 17:21	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:21	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:21	SLS	7439-92-1	
Manganese, Dissolved	0.131	mg/L	0.010	6020	05/10/12 17:21	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/11/12 15:12	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 17:21	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:21	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/10/12 17:21	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:21	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/10/12 17:21	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/10/12 17:21	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/10/12 17:24	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/10/12 17:24	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/10/12 17:24	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/10/12 17:24	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/10/12 17:24	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/10/12 17:24	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/10/12 17:24	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/15/12 16:56	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/15/12 16:56	PL	118-74-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.19 (continued)

Sample Tag: SB-A5.2-NJ145_16.5-20.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/15/12 01:43	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/15/12 01:43	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	05/15/12 01:43	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/15/12 01:43	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	88-75-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.19 (continued)

Sample Tag: SB-A5.2-NJ145_16.5-20.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 01:43	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	05/30/12 16:01	WAT	123-91-1	1F

1-Run outside of hold time per client request. F-Analysis run outside of holding time



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.20
Sample Tag: SB-A5.2-NE150_0-1
Collected Date/Time: 05/08/2012 16:15
Matrix: Soil
COC Reference: 67617

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:53	EMR		
Extraction, PCB	Completed			3550B	05/14/12 15:30	ADB		
Mercury Digestion	Completed			7471A	05/15/12 13:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 11:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/09/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/15/12 16:06	PER	7440-36-0	
Arsenic	2.65	mg/kg	0.10	6020	05/15/12 16:06	PER	7440-38-2	
Barium	79.7	mg/kg	1.0	6020	05/15/12 16:06	PER	7440-39-3	
Beryllium	0.31	mg/kg	0.21	6020	05/15/12 16:06	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/15/12 16:06	PER	7440-42-8	
Cadmium	1.04	mg/kg	0.10	6020	05/15/12 16:06	PER	7440-43-9	
Chromium	16.6	mg/kg	0.21	6020	05/15/12 16:06	PER	7440-47-3	
Cobalt	9.59	mg/kg	0.21	6020	05/15/12 16:06	PER	7440-48-4	
Copper	77.0	mg/kg	0.21	6020	05/15/12 16:06	PER	7440-50-8	
Lead	155	mg/kg	0.21	6020	05/15/12 16:06	PER	7439-92-1	
Manganese	475	mg/kg	0.21	6020	05/15/12 16:06	PER	7439-96-5	
Mercury	0.0699	mg/kg	0.0057	7471A	05/15/12 16:36	JRT	7439-97-6	
Nickel	47.2	mg/kg	0.21	6020	05/15/12 16:06	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/15/12 16:06	PER	7782-49-2	
Silver	0.69	mg/kg	0.10	6020	05/15/12 16:06	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/15/12 16:06	PER	7440-28-0	
Vanadium	4.68	mg/kg	0.21	6020	05/15/12 16:06	PER	7440-62-2	
Zinc	170	mg/kg	1.0	6020	05/15/12 16:06	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	8	8082A	05/14/12 19:50	JANB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	8	8082A	05/14/12 19:50	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	8	8082A	05/14/12 19:50	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	8	8082A	05/14/12 19:50	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	8	8082A	05/14/12 19:50	JANB	12672-29-6	Y
PCB-1254	80	ug/kg	8	8082A	05/14/12 19:50	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	8	8082A	05/14/12 19:50	JANB	11096-82-5	Y

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	83-32-9	
Acenaphthylene	100	ug/kg	70	8270C	05/13/12 00:09	PL	208-96-8	

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.20 (continued)

Sample Tag: SB-A5.2-NE150_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	98-86-2	
Anthracene	190	ug/kg	70	8270C	05/13/12 00:09	PL	120-12-7	
Atrazine	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	100	8270C	05/13/12 00:09	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	100-52-7	
Benzo(a)anthracene	970	ug/kg	70	8270C	05/13/12 00:09	PL	56-55-3	
Benzo(a)pyrene	1,160	ug/kg	70	8270C	05/13/12 00:09	PL	50-32-8	
Benzo(b)fluoranthene	2,510	ug/kg	70	8270C	05/13/12 00:09	PL	205-99-2	p
Benzo(ghi)perylene	580	ug/kg	70	8270C	05/13/12 00:09	PL	191-24-2	
Benzo(k)fluoranthene	2,540	ug/kg	70	8270C	05/13/12 00:09	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	105-60-2	
Carbazole	90	ug/kg	70	8270C	05/13/12 00:09	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	108-60-1	
Chrysene	1,170	ug/kg	70	8270C	05/13/12 00:09	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	534-52-1	
Dibenzo(ah)anthracene	200	ug/kg	100	8270C	05/13/12 00:09	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	100	8270C	05/13/12 00:09	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	100	8270C	05/13/12 00:09	PL	117-81-7	
Fluoranthene	1,730	ug/kg	70	8270C	05/13/12 00:09	PL	206-44-0	
Fluorene	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	580	ug/kg	70	8270C	05/13/12 00:09	PL	193-39-5	
Isophorone	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	100	8270C	05/13/12 00:09	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	88-74-4	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.20 (continued)

Sample Tag: SB-A5.2-NE150_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	86-30-6	
Naphthalene	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	100	8270C	05/13/12 00:09	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	87-86-5	
Phenanthrene	700	ug/kg	70	8270C	05/13/12 00:09	PL	85-01-8	
Phenol	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	108-95-2	
Pyrene	1,710	ug/kg	70	8270C	05/13/12 00:09	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	70	8270C	05/13/12 00:09	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.21
Sample Tag: SB-A5.2-NE150_5-6
Collected Date/Time: 05/08/2012 16:45
Matrix: Soil
COC Reference: 67617

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:53	EMR		
Extraction, PCB	Completed			3550B	05/14/12 15:30	ADB		
Mercury Digestion	Completed			7471A	05/15/12 13:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 11:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/09/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/15/12 16:08	PER	7440-36-0	
Arsenic	0.48	mg/kg	0.10	6020	05/15/12 16:08	PER	7440-38-2	
Barium	35.9	mg/kg	1.0	6020	05/15/12 16:08	PER	7440-39-3	
Beryllium	0.20	mg/kg	0.20	6020	05/15/12 16:08	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/15/12 16:08	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 16:08	PER	7440-43-9	
Chromium	3.47	mg/kg	0.20	6020	05/15/12 16:08	PER	7440-47-3	
Cobalt	1.40	mg/kg	0.20	6020	05/15/12 16:08	PER	7440-48-4	
Copper	7.53	mg/kg	0.20	6020	05/15/12 16:08	PER	7440-50-8	
Lead	7.89	mg/kg	0.20	6020	05/15/12 16:08	PER	7439-92-1	
Manganese	111	mg/kg	0.20	6020	05/15/12 16:08	PER	7439-96-5	
Mercury	0.0153	mg/kg	0.0055	7471A	05/15/12 16:38	JRT	7439-97-6	
Nickel	3.46	mg/kg	0.20	6020	05/15/12 16:08	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/15/12 16:08	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 16:08	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/15/12 16:08	PER	7440-28-0	
Vanadium	4.46	mg/kg	0.20	6020	05/15/12 16:08	PER	7440-62-2	
Zinc	10.0	mg/kg	1.0	6020	05/15/12 16:08	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	5	8082A	05/14/12 20:00	JANB	12674-11-2	X
PCB-1242	Not detected	ug/kg	5	8082A	05/14/12 20:00	JANB	53469-21-9	X
PCB-1221	Not detected	ug/kg	5	8082A	05/14/12 20:00	JANB	11104-28-2	X
PCB-1232	Not detected	ug/kg	5	8082A	05/14/12 20:00	JANB	11141-16-5	X
PCB-1248	Not detected	ug/kg	5	8082A	05/14/12 20:00	JANB	12672-29-6	X
PCB-1254	Not detected	ug/kg	5	8082A	05/14/12 20:00	JANB	11097-69-1	X
PCB-1260	Not detected	ug/kg	5	8082A	05/14/12 20:00	JANB	11096-82-5	X

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	208-96-8	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.21 (continued)

Sample Tag: SB-A5.2-NE150_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 17:18	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/12/12 17:18	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 17:18	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/12/12 17:18	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/12/12 17:18	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	88-75-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.21 (continued)

Sample Tag: SB-A5.2-NE150_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 17:18	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	108-95-2	
Pyrene	40	ug/kg	40	8270C	05/12/12 17:18	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 17:18	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.22
Sample Tag: SB-A5.2-NE150_11-12
Collected Date/Time: 05/08/2012 16:55
Matrix: Soil
COC Reference: 67617

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:53	EMR		
Extraction, PCB	Completed			3550B	05/15/12 14:37	ADB		
Mercury Digestion	Completed			7471A	05/15/12 13:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 11:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/09/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/15/12 16:10	PER	7440-36-0	
Arsenic	0.87	mg/kg	0.10	6020	05/15/12 16:10	PER	7440-38-2	
Barium	19.5	mg/kg	1.0	6020	05/15/12 16:10	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/15/12 16:10	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/15/12 16:10	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 16:10	PER	7440-43-9	
Chromium	2.08	mg/kg	0.20	6020	05/15/12 16:10	PER	7440-47-3	
Cobalt	1.95	mg/kg	0.20	6020	05/15/12 16:10	PER	7440-48-4	
Copper	9.39	mg/kg	0.20	6020	05/15/12 16:10	PER	7440-50-8	
Lead	3.93	mg/kg	0.20	6020	05/15/12 16:10	PER	7439-92-1	
Manganese	234	mg/kg	0.20	6020	05/15/12 16:10	PER	7439-96-5	
Mercury	0.0075	mg/kg	0.0056	7471A	05/15/12 16:41	JRT	7439-97-6	
Nickel	7.98	mg/kg	0.20	6020	05/15/12 16:10	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/15/12 16:10	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 16:10	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/15/12 16:10	PER	7440-28-0	
Vanadium	3.82	mg/kg	0.20	6020	05/15/12 16:10	PER	7440-62-2	
Zinc	12.9	mg/kg	1.0	6020	05/15/12 16:10	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 17:05	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 17:05	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 17:05	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 17:05	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 17:05	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 17:05	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 17:05	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	98-86-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.22 (continued)

Sample Tag: SB-A5.2-NE150_11-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 17:48	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/12/12 17:48	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 17:48	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/12/12 17:48	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/12/12 17:48	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	99-09-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.22 (continued)

Sample Tag: SB-A5.2-NE150_11-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 17:48	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 17:48	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.23
Sample Tag: SB-A5.2-DUP19
Collected Date/Time: 05/08/2012 00:01
Matrix: Soil
COC Reference: 67617

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:53	EMR		
Extraction, PCB	Completed			3550B	05/15/12 14:37	ADB		
Mercury Digestion	Completed			7471A	05/15/12 13:00	JRH		
Metal Digestion	Completed			3050B	05/15/12 11:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/09/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/15/12 16:12	PER	7440-36-0	
Arsenic	0.50	mg/kg	0.10	6020	05/15/12 16:12	PER	7440-38-2	
Barium	37.1	mg/kg	1.0	6020	05/15/12 16:12	PER	7440-39-3	
Beryllium	0.48	mg/kg	0.21	6020	05/15/12 16:12	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/15/12 16:12	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/15/12 16:12	PER	7440-43-9	
Chromium	3.25	mg/kg	0.21	6020	05/15/12 16:12	PER	7440-47-3	
Cobalt	2.37	mg/kg	0.21	6020	05/15/12 16:12	PER	7440-48-4	
Copper	19.1	mg/kg	0.21	6020	05/15/12 16:12	PER	7440-50-8	
Lead	5.81	mg/kg	0.21	6020	05/15/12 16:12	PER	7439-92-1	
Manganese	125	mg/kg	0.21	6020	05/15/12 16:12	PER	7439-96-5	
Mercury	0.0141	mg/kg	0.0058	7471A	05/15/12 16:43	JRT	7439-97-6	
Nickel	3.65	mg/kg	0.21	6020	05/15/12 16:12	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/15/12 16:12	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/15/12 16:12	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/15/12 16:12	PER	7440-28-0	
Vanadium	13.4	mg/kg	0.21	6020	05/15/12 16:12	PER	7440-62-2	
Zinc	8.32	mg/kg	1.0	6020	05/15/12 16:12	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 17:16	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 17:16	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 17:16	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 17:16	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 17:16	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 17:16	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 17:16	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	98-86-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.23 (continued)

Sample Tag: SB-A5.2-DUP19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 18:17	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/12/12 18:17	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 18:17	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/12/12 18:17	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/12/12 18:17	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	99-09-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52446.23 (continued)

Sample Tag: SB-A5.2-DUP19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 18:17	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 18:17	PL	88-06-2	



67622

INVOICE TO

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208	E-MAIL ADDRESS dfavero@racertrust.org		

RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES:	TEMP. ON ARRIVAL <u>4.7</u>
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		

Rev. 1.15.12

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME				Randy Christensen			
COMPANY				ARCADIS			
ADDRESS							
10559 Citation Drive Suite 100							
CITY						STATE	ZIP CODE
Brighton						MI	48116
PHONE NO.			FAX NO.			P.O. NO.	
810-225-1910						PO125047	
E-MAIL ADDRESS						QUOTE NO.	
randy.christensen@arcadis-us.com						Task#: 5	

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208		E-MAIL ADDRESS dfavero@racertrust.org	

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Lansing Plant 2 Project# B0064478.2012	SAMPLER(S) - PLEASE PRINT/SIGN NAME Meryl Hicks
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER _____	
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____	

Certifications

☐ OHIO VAP ☐ Drinking Water

☐ DoD ☐ NPDES

Project Locations

☐ Detroit ☐ New York

☐ Other _____

Special Instructions

MATRIX	GW-GROUNDWATER	WW-WASTEWATER	S=SOIL	L-LIQUID	SD-SOLID
CODE:	SL-SLUDGE	DW=DRINKING WATER	O-OIL	WP-WIPE	A-AIR
					W=WASTE

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES
	DATE	TIME			
52446.05	5-8-12	0805	SB-AS.2-NO157-0-1	S	1
.06	5-8-12	0950	SB-AS.2-NO150-1-2	S	1
.07	5-8-12	1010	SB-AS.2-NO150-7-8	S	1
.08	5-8-12	1015	SB-AS.2-NO150-12-13	S	1
09.10.11	5-8-12	1025	SB-AS.2-NO150-18-19	S	3
.12	5-8-12	1035	SB-AS.2-NO150-24-25	S	1
.13	5-8-12	1115	SB-AS.2-NJ145-1-2	S	1
.14	5-8-12	1130	SB-AS.2-NJ145-7-8	S	1
.15	5-8-12	1140	SB-AS.2-NJ145-15-16	S	1
.16	5-8-12	1230	SB-AS.2-NJ145-7-11	SW	5
.17	5-8-12	1325	SB-AS.2-NJ145-21-22	S	1
.18	5-8-12	-	SB-AS.2-DUP18	S	1

# Containers & Preservatives								VOCs	SVOCs	PCBs	Metals (wtHg)	Certifications				Project Locations		Special Instructions
None	HCl	HNO ₃	H ₂ SO ₄	NaOH	MnOH	Other					☐ OHIO VAP	☐ Drinking Water	☐ DoD	☐ NPDES	☐ Detroit	☐ New York		
X									X	X	X							
X									X	X	X							
X									X	X	X							
X									X	X	X							
X									X	X	X							
X									X	X	X							
X									X	X	X							
X									X	X	X							
X									X	X	X							
X									X	X	X							
X	X	X						X	X	X	X							
X								X	X	X	X							
X								X	X	X	X							

MS/MSD

HOLD VOCs for 14 Days
PCBs, SVOCs, Metals Field

RELINQUISHED BY:	<i>Ant. Neth / ARCADIS</i>	☒ Sampler	DATE	TIME
SIGNATURE/ORGANIZATION			5/9/12	9:45
RELINQUISHED BY:	<i>Ant. Neth</i>		DATE	TIME
SIGNATURE/ORGANIZATION			5/9/12	9:45
RELINQUISHED BY:			DATE	TIME
SIGNATURE/ORGANIZATION				
RELINQUISHED BY:			DATE	TIME
SIGNATURE/ORGANIZATION				

RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES:	TEMP. ON ARRIVAL <u>4.9</u>
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		



67617

INVOICE TO

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208	E-MAIL ADDRESS dfavero@racetrust.org		

Certifications

☐ OHIO VAP ☐ Drinking Water

☐ DoD ☐ NPDES

Project Locations

☐ Detroit ☐ New York

☐ Other _____

Containers & Preservatives

VOCs	SVOCs	PCBs	Metals
X	X	X	X
	X	X	X
	X	X	X
	X	X	X
	X	X	X

Special Instructions	HOLD VOCs for 1,4-Diox RBS, Mutais, SVCS, FIVE, 14d
----------------------	--

RELINQUISHED BY: SIGNATURE/ORGANIZATION: <i>[Signature]</i>			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION: <i>[Signature]</i>			DATE 5-9-12	TIME 10:00
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 47	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		

Rev 115 12



Analytical Laboratory Report

Revised Report

Report ID: S52462.01(03)

Generated on 06/13/2012

Replaces report S52462.01(02) generated on 05/31/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52462.01-S52462.30

Project: Lansing Plant #2 Project# B0064479.2012

Collected Date: 05/09/2012

Submitted Date/Time: 05/10/2012 10:00

Sampled by: MH, AW, CB

P.O. #: PO125047

Sample tag changes 6-13-12

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Revised Report

Sample Summary (30 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52462.01	VAP-A5.5-NP194_16-17	Soil	05/09/2012 09:00
S52462.02	VAP-A5.5-NP194_14-15	Groundwater	05/09/2012 09:35
S52462.03	VAP-A5.5-NP194_20-21	Soil	05/09/2012 10:30
S52462.04	VAP-A5.5-NP194_27-28	Soil	05/09/2012 11:20
S52462.05	VAP-A5.5-NP194_25-26	Groundwater	05/09/2012 12:15
S52462.06	VAP-A5.5-NP194_31-32	Soil	05/09/2012 13:15
S52462.07	VAP-A5.5-DUP 20	Soil	05/09/2012 00:01
S52462.08	VAP-A5.5-NP194_36-37	Soil	05/09/2012 13:35
S52462.09	VAP-A5.5-NP194_41-42	Soil	05/09/2012 14:00
S52462.10	VAP-A5.5-NP194_46-47	Soil	05/09/2012 14:10
S52462.11	VAP-A5.5-NP194_52-53	Soil	05/09/2012 15:00
S52462.12	VAP-A5.5-NP194_56-57	Soil	05/09/2012 15:40
S52462.13	VAP-A5.5-NP194_62-63	Soil	05/09/2012 16:30
S52462.14	SB-A5.2-NE150_20-21	Soil	05/09/2012 08:51
S52462.15	SB-A5.2-NE150_16-20	Groundwater	05/09/2012 09:25
S52462.16	SB-A5.2-NE150_24-25	Soil	05/09/2012 10:05
S52462.17	SB-A5.2-NE157_1-2	Soil	05/09/2012 10:50
S52462.18	SB-A5.2-NE157_3-4	Soil	05/09/2012 11:35
S52462.19	SB-A5.2-NE157_9-10	Soil	05/09/2012 11:55
S52462.20	SB-A5.2-NE157_15-16	Soil	05/09/2012 12:05
S52462.21	SB-A5.2-NE157_17-21	Groundwater	05/09/2012 13:00
S52462.22	SB-A5.2-NE157_24-25	Soil	05/09/2012 14:12
S52462.23	SB-A5.2-NO156_1-2	Soil	05/09/2012 14:51
S52462.24	SB-A5.2-NO156_6-7	Soil	05/09/2012 16:00
S52462.25	SB-A5.2-DUP21	Soil	05/09/2012 00:01
S52462.26	SB-A5.2-NO156_6-10	Groundwater	05/09/2012 16:25
S52462.27	SB-A5.2-NO156_15-16	Soil	05/09/2012 17:05
S52462.28	SB-A5.2-NO156_15-16 MS	Soil	05/09/2012 17:05
S52462.29	SB-A5.2-NO156_15-16 MSD	Soil	05/09/2012 17:05
S52462.30	SB-A5.2-NO156_21-22	Soil	05/09/2012 17:20



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Lab Sample ID: S52462.01
Sample Tag: VAP-A5.5-NP194_16-17
Collected Date/Time: 05/09/2012 09:00
Matrix: Soil
COC Reference: 67614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:53	EMR		
Extraction, PCB	Completed			3550B	05/15/12 17:14	ADB		
Mercury Digestion	Completed			7471A	05/16/12 11:20	JRH		
Metal Digestion	Completed			3050B	05/16/12 09:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/10/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/16/12 14:47	PER	7440-36-0	
Arsenic	0.72	mg/kg	0.10	6020	05/16/12 14:47	PER	7440-38-2	
Barium	31.9	mg/kg	1.0	6020	05/16/12 14:47	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/16/12 14:47	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/16/12 14:47	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/16/12 14:47	PER	7440-43-9	
Chromium	2.34	mg/kg	0.20	6020	05/16/12 14:47	PER	7440-47-3	
Cobalt	1.87	mg/kg	0.20	6020	05/16/12 14:47	PER	7440-48-4	
Copper	6.62	mg/kg	0.20	6020	05/16/12 14:47	PER	7440-50-8	
Lead	3.62	mg/kg	0.20	6020	05/16/12 14:47	PER	7439-92-1	
Manganese	222	mg/kg	0.20	6020	05/16/12 14:47	PER	7439-96-5	
Mercury	0.0072	mg/kg	0.0056	7471A	05/16/12 14:26	JRT	7439-97-6	
Nickel	6.03	mg/kg	0.20	6020	05/16/12 14:47	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/16/12 14:47	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/16/12 14:47	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/16/12 14:47	PER	7440-28-0	
Vanadium	3.94	mg/kg	0.20	6020	05/16/12 14:47	PER	7440-62-2	
Zinc	7.45	mg/kg	1.0	6020	05/16/12 14:47	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 19:22	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 19:22	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 19:22	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 19:22	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 19:22	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 19:22	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 19:22	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	98-86-2	



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Lab Sample ID: S52462.01 (continued)

Sample Tag: VAP-A5.5-NP194_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	101-55-3	
di-n-Butyl phthalate	80	ug/kg	80	8270C	05/12/12 18:46	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/12/12 18:46	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 18:46	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/12/12 18:46	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/12/12 18:46	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	99-09-2	



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Lab Sample ID: S52462.01 (continued)

Sample Tag: VAP-A5.5-NP194_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/12/12 18:46	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 18:46	PL	88-06-2	



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Lab Sample ID: S52462.02
Sample Tag: VAP-A5.5-NP194_14-15
Collected Date/Time: 05/09/2012 09:35
Matrix: Groundwater
COC Reference: 67614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.1	IR
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/14/12 22:46	EMR		
Mercury Digestion	Completed			7471A	05/11/12 10:00	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:20	SLS	7440-36-0	
Arsenic, Dissolved	0.004	mg/L	0.002	6020	05/21/12 18:20	SLS	7440-38-2	
Barium, Dissolved	0.121	mg/L	0.010	6020	05/21/12 18:20	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 18:20	SLS	7440-41-7	
Boron, Dissolved	0.09	mg/L	0.04	6020	05/21/12 18:20	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 18:20	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:20	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:20	SLS	7440-48-4	
Copper, Dissolved	0.003	mg/L	0.002	6020	05/21/12 18:20	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:20	SLS	7439-92-1	
Manganese, Dissolved	0.052	mg/L	0.010	6020	05/21/12 18:20	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/11/12 15:14	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:20	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:20	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 18:20	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:20	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:20	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:20	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.06	8270C	05/15/12 17:24	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.06	8270C	05/15/12 17:24	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	205-99-2	



Analytical Laboratory Report

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Lab Sample ID: S52462.02 (continued)

Sample Tag: VAP-A5.5-NP194_14-15

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/15/12 14:33	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/15/12 14:33	PL	84-66-2	
Dimethyl phthalate	4	ug/L	2	8270C	05/15/12 14:33	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/15/12 14:33	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	129-00-0	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.02 (continued)

Sample Tag: VAP-A5.5-NP194_14-15

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 14:33	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	05/30/12 16:19	WAT	123-91-1	1F

1-Run outside of hold time per client request. F-Analysis run outside of holding time



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.03
Sample Tag: VAP-A5.5-NP194_20-21
Collected Date/Time: 05/09/2012 10:30
Matrix: Soil
COC Reference: 67614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:53	EMR		
Extraction, PCB	Completed			3550B	05/15/12 17:14	ADB		
Mercury Digestion	Completed			7471A	05/16/12 11:20	JRH		
Metal Digestion	Completed			3050B	05/16/12 09:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/10/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/16/12 15:09	PER	7440-36-0	
Arsenic	1.87	mg/kg	0.10	6020	05/16/12 15:09	PER	7440-38-2	
Barium	23.6	mg/kg	1.0	6020	05/16/12 15:09	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/16/12 15:09	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/16/12 15:09	PER	7440-42-8	
Cadmium	0.13	mg/kg	0.10	6020	05/16/12 15:09	PER	7440-43-9	
Chromium	2.03	mg/kg	0.20	6020	05/16/12 15:09	PER	7440-47-3	
Cobalt	2.06	mg/kg	0.20	6020	05/16/12 15:09	PER	7440-48-4	
Copper	6.07	mg/kg	0.20	6020	05/16/12 15:09	PER	7440-50-8	
Lead	3.28	mg/kg	0.20	6020	05/16/12 15:09	PER	7439-92-1	
Manganese	264	mg/kg	0.20	6020	05/16/12 15:09	PER	7439-96-5	
Mercury	0.0061	mg/kg	0.0055	7471A	05/16/12 14:28	JRT	7439-97-6	
Nickel	6.49	mg/kg	0.20	6020	05/16/12 15:09	PER	7440-02-0	
Selenium	0.22	mg/kg	0.20	6020	05/16/12 15:09	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/16/12 15:09	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/16/12 15:09	PER	7440-28-0	
Vanadium	3.52	mg/kg	0.20	6020	05/16/12 15:09	PER	7440-62-2	
Zinc	13.3	mg/kg	1.0	6020	05/16/12 15:09	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 19:33	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 19:33	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 19:33	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 19:33	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 19:33	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 19:33	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 19:33	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.03 (continued)

Sample Tag: VAP-A5.5-NP194_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 19:15	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/12/12 19:15	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 19:15	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/12/12 19:15	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/12/12 19:15	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.03 (continued)

Sample Tag: VAP-A5.5-NP194_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 19:15	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 19:15	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.04

Sample Tag: VAP-A5.5-NP194_27-28

Collected Date/Time: 05/09/2012 11:20

Matrix: Soil

COC Reference: 67614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:53	EMR		
Extraction, PCB	Completed			3550B	05/15/12 17:14	ADB		
Mercury Digestion	Completed			7471A	05/16/12 11:20	JRH		
Metal Digestion	Completed			3050B	05/16/12 09:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/10/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/16/12 15:11	PER	7440-36-0	
Arsenic	2.35	mg/kg	0.10	6020	05/16/12 15:11	PER	7440-38-2	
Barium	19.6	mg/kg	1.0	6020	05/16/12 15:11	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/16/12 15:11	PER	7440-41-7	
Boron	Not detected	mg/kg	3.9	6020	05/16/12 15:11	PER	7440-42-8	
Cadmium	0.15	mg/kg	0.10	6020	05/16/12 15:11	PER	7440-43-9	
Chromium	1.72	mg/kg	0.20	6020	05/16/12 15:11	PER	7440-47-3	
Cobalt	1.85	mg/kg	0.20	6020	05/16/12 15:11	PER	7440-48-4	
Copper	5.79	mg/kg	0.20	6020	05/16/12 15:11	PER	7440-50-8	
Lead	3.36	mg/kg	0.20	6020	05/16/12 15:11	PER	7439-92-1	
Manganese	225	mg/kg	0.20	6020	05/16/12 15:11	PER	7439-96-5	
Mercury	0.0070	mg/kg	0.0055	7471A	05/16/12 14:30	JRT	7439-97-6	
Nickel	6.37	mg/kg	0.20	6020	05/16/12 15:11	PER	7440-02-0	
Selenium	0.29	mg/kg	0.20	6020	05/16/12 15:11	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/16/12 15:11	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/16/12 15:11	PER	7440-28-0	
Vanadium	3.32	mg/kg	0.20	6020	05/16/12 15:11	PER	7440-62-2	
Zinc	16.7	mg/kg	1.0	6020	05/16/12 15:11	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 19:44	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 19:44	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 19:44	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 19:44	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 19:44	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 19:44	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 19:44	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.04 (continued)

Sample Tag: VAP-A5.5-NP194_27-28

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 19:45	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/12/12 19:45	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 19:45	PL	84-66-2	
Dimethyl phthalate	270	ug/kg	40	8270C	05/12/12 19:45	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/12/12 19:45	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/12/12 19:45	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.04 (continued)

Sample Tag: VAP-A5.5-NP194_27-28

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/12/12 19:45	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/12/12 19:45	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.05
Sample Tag: VAP-A5.5-NP194_25-26
Collected Date/Time: 05/09/2012 12:15
Matrix: Groundwater
COC Reference: 67614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.1	IR
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction (Replicate 01)	Completed			3510C	05/16/12 18:30	EMR		
BNA Extraction	Completed			3510C	05/14/12 22:46	EMR		
Mercury Digestion	Completed			7471A	05/11/12 10:00	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:24	SLS	7440-36-0	
Arsenic, Dissolved	0.005	mg/L	0.002	6020	05/21/12 18:24	SLS	7440-38-2	
Barium, Dissolved	0.403	mg/L	0.010	6020	05/21/12 18:24	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 18:24	SLS	7440-41-7	
Boron, Dissolved	0.12	mg/L	0.04	6020	05/21/12 18:24	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 18:24	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:24	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:24	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:24	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:24	SLS	7439-92-1	
Manganese, Dissolved	0.212	mg/L	0.010	6020	05/21/12 18:24	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/11/12 15:17	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:24	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:24	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 18:24	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:24	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:24	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:24	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/15/12 17:52	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/15/12 17:52	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	120-12-7	S
Atrazine	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	1912-24-9	S
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	101-55-3	S
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	84-74-2	S
Benzaldehyde	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	56-55-3	

S-Surrogate recovery outside of control limits



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.05 (continued)

Sample Tag: VAP-A5.5-NP194_25-26

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/15/12 15:02	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	86-74-8	S
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	534-52-1	S
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/15/12 15:02	PL	84-66-2	
Dimethyl phthalate	6	ug/L	2	8270C	05/15/12 15:02	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/15/12 15:02	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	206-44-0	S
Fluorene	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	86-30-6	S
Naphthalene	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	87-86-5	S

S-Surrogate recovery outside of control limits



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.05 (continued)

Sample Tag: VAP-A5.5-NP194_25-26

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Phenanthrene	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	85-01-8	S
Phenol	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 15:02	PL	88-06-2	
TCL Semi-Volatile Organics, Dissolved (Replicate 01)								
Acenaphthene	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/18/12 14:12	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/18/12 14:12	PL	84-66-2	
Dimethyl phthalate	6	ug/L	2	8270C	05/18/12 14:12	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/18/12 14:12	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	77-47-4	

S-Surrogate recovery outside of control limits



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.05 (continued)

Sample Tag: VAP-A5.5-NP194_25-26

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (Replicate 01) (continued)								
Hexachloroethane	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/18/12 14:12	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.06

Sample Tag: VAP-A5.5-NP194_31-32

Collected Date/Time: 05/09/2012 13:15

Matrix: Soil

COC Reference: 67614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:53	EMR		
Extraction, PCB	Completed			3550B	05/15/12 17:14	ADB		
Mercury Digestion	Completed			7471A	05/16/12 11:20	JRH		
Metal Digestion	Completed			3050B	05/16/12 09:00	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	05/10/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/16/12 15:13	PER	7440-36-0	
Arsenic	4.83	mg/kg	0.10	6020	05/16/12 15:13	PER	7440-38-2	
Barium	14.5	mg/kg	1.0	6020	05/16/12 15:13	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/16/12 15:13	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/16/12 15:13	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	05/16/12 15:13	PER	7440-43-9	
Chromium	1.88	mg/kg	0.21	6020	05/16/12 15:13	PER	7440-47-3	
Cobalt	2.65	mg/kg	0.21	6020	05/16/12 15:13	PER	7440-48-4	
Copper	6.37	mg/kg	0.21	6020	05/16/12 15:13	PER	7440-50-8	
Lead	4.38	mg/kg	0.21	6020	05/16/12 15:13	PER	7439-92-1	
Manganese	297	mg/kg	0.21	6020	05/16/12 15:13	PER	7439-96-5	
Mercury	0.0092	mg/kg	0.0057	7471A	05/16/12 14:33	JRT	7439-97-6	
Nickel	7.91	mg/kg	0.21	6020	05/16/12 15:13	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/16/12 15:13	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/16/12 15:13	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/16/12 15:13	PER	7440-28-0	
Vanadium	3.98	mg/kg	0.21	6020	05/16/12 15:13	PER	7440-62-2	
Zinc	17.1	mg/kg	1.0	6020	05/16/12 15:13	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 19:54	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 19:54	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 19:54	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 19:54	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 19:54	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 19:54	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 19:54	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.06 (continued)

Sample Tag: VAP-A5.5-NP194_31-32

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/13/12 19:40	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/13/12 19:40	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/13/12 19:40	PL	84-66-2	
Dimethyl phthalate	280	ug/kg	40	8270C	05/13/12 19:40	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/13/12 19:40	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/13/12 19:40	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.06 (continued)

Sample Tag: VAP-A5.5-NP194_31-32

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/13/12 19:40	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 19:40	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.07
Sample Tag: VAP-A5.5-DUP 20
Collected Date/Time: 05/09/2012 00:01
Matrix: Soil
COC Reference: 67614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:53	EMR		
Extraction, PCB	Completed			3550B	05/15/12 17:14	ADB		
Mercury Digestion	Completed			7471A	05/16/12 11:20	JRH		
Metal Digestion	Completed			3050B	05/16/12 09:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/10/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/16/12 15:16	PER	7440-36-0	
Arsenic	2.54	mg/kg	0.10	6020	05/16/12 15:16	PER	7440-38-2	
Barium	20.6	mg/kg	1.0	6020	05/16/12 15:16	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/16/12 15:16	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/16/12 15:16	PER	7440-42-8	
Cadmium	0.13	mg/kg	0.10	6020	05/16/12 15:16	PER	7440-43-9	
Chromium	1.96	mg/kg	0.20	6020	05/16/12 15:16	PER	7440-47-3	
Cobalt	2.74	mg/kg	0.20	6020	05/16/12 15:16	PER	7440-48-4	
Copper	7.56	mg/kg	0.20	6020	05/16/12 15:16	PER	7440-50-8	
Lead	4.80	mg/kg	0.20	6020	05/16/12 15:16	PER	7439-92-1	
Manganese	256	mg/kg	0.20	6020	05/16/12 15:16	PER	7439-96-5	
Mercury	0.0077	mg/kg	0.0055	7471A	05/16/12 14:35	JRT	7439-97-6	
Nickel	8.79	mg/kg	0.20	6020	05/16/12 15:16	PER	7440-02-0	
Selenium	0.29	mg/kg	0.20	6020	05/16/12 15:16	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/16/12 15:16	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/16/12 15:16	PER	7440-28-0	
Vanadium	3.53	mg/kg	0.20	6020	05/16/12 15:16	PER	7440-62-2	
Zinc	14.8	mg/kg	1.0	6020	05/16/12 15:16	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 20:05	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 20:05	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 20:05	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 20:05	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 20:05	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 20:05	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 20:05	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.07 (continued)

Sample Tag: VAP-A5.5-DUP 20

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 20:13	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/13/12 20:13	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 20:13	PL	84-66-2	
Dimethyl phthalate	150	ug/kg	40	8270C	05/13/12 20:13	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/13/12 20:13	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/13/12 20:13	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.07 (continued)

Sample Tag: VAP-A5.5-DUP 20

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 20:13	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 20:13	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.08
Sample Tag: VAP-A5.5-NP194_36-37
Collected Date/Time: 05/09/2012 13:35
Matrix: Soil
COC Reference: 67614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:53	EMR		
Extraction, PCB	Completed			3550B	05/15/12 17:14	ADB		
Mercury Digestion	Completed			7471A	05/16/12 11:20	JRH		
Metal Digestion	Completed			3050B	05/16/12 09:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/10/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/16/12 15:18	PER	7440-36-0	
Arsenic	2.47	mg/kg	0.10	6020	05/16/12 15:18	PER	7440-38-2	
Barium	23.0	mg/kg	1.0	6020	05/16/12 15:18	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/16/12 15:18	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/16/12 15:18	PER	7440-42-8	
Cadmium	0.18	mg/kg	0.10	6020	05/16/12 15:18	PER	7440-43-9	
Chromium	2.44	mg/kg	0.20	6020	05/16/12 15:18	PER	7440-47-3	
Cobalt	2.87	mg/kg	0.20	6020	05/16/12 15:18	PER	7440-48-4	
Copper	7.74	mg/kg	0.20	6020	05/16/12 15:18	PER	7440-50-8	
Lead	4.43	mg/kg	0.20	6020	05/16/12 15:18	PER	7439-92-1	
Manganese	255	mg/kg	0.20	6020	05/16/12 15:18	PER	7439-96-5	
Mercury	0.0080	mg/kg	0.0054	7471A	05/16/12 14:37	JRT	7439-97-6	
Nickel	8.87	mg/kg	0.20	6020	05/16/12 15:18	PER	7440-02-0	
Selenium	0.22	mg/kg	0.20	6020	05/16/12 15:18	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/16/12 15:18	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/16/12 15:18	PER	7440-28-0	
Vanadium	3.74	mg/kg	0.20	6020	05/16/12 15:18	PER	7440-62-2	
Zinc	19.4	mg/kg	1.0	6020	05/16/12 15:18	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 20:15	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 20:15	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 20:15	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 20:15	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 20:15	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 20:15	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 20:15	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.08 (continued)

Sample Tag: VAP-A5.5-NP194_36-37

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 20:47	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/13/12 20:47	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 20:47	PL	84-66-2	
Dimethyl phthalate	290	ug/kg	40	8270C	05/13/12 20:47	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/13/12 20:47	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/13/12 20:47	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.08 (continued)

Sample Tag: VAP-A5.5-NP194_36-37

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 20:47	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 20:47	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.09
Sample Tag: VAP-A5.5-NP194_41-42
Collected Date/Time: 05/09/2012 14:00
Matrix: Soil
COC Reference: 67614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:53	EMR		
Extraction, PCB	Completed			3550B	05/15/12 17:14	ADB		
Mercury Digestion	Completed			7471A	05/16/12 11:20	JRH		
Metal Digestion	Completed			3050B	05/16/12 09:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/10/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/16/12 15:20	PER	7440-36-0	
Arsenic	3.15	mg/kg	0.10	6020	05/16/12 15:20	PER	7440-38-2	
Barium	36.1	mg/kg	1.0	6020	05/16/12 15:20	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/16/12 15:20	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/16/12 15:20	PER	7440-42-8	
Cadmium	0.17	mg/kg	0.10	6020	05/16/12 15:20	PER	7440-43-9	
Chromium	2.72	mg/kg	0.20	6020	05/16/12 15:20	PER	7440-47-3	
Cobalt	3.91	mg/kg	0.20	6020	05/16/12 15:20	PER	7440-48-4	
Copper	10.6	mg/kg	0.20	6020	05/16/12 15:20	PER	7440-50-8	
Lead	6.06	mg/kg	0.20	6020	05/16/12 15:20	PER	7439-92-1	
Manganese	298	mg/kg	0.20	6020	05/16/12 15:20	PER	7439-96-5	
Mercury	0.0106	mg/kg	0.0055	7471A	05/16/12 14:39	JRT	7439-97-6	
Nickel	11.6	mg/kg	0.20	6020	05/16/12 15:20	PER	7440-02-0	
Selenium	0.22	mg/kg	0.20	6020	05/16/12 15:20	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/16/12 15:20	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/16/12 15:20	PER	7440-28-0	
Vanadium	4.76	mg/kg	0.20	6020	05/16/12 15:20	PER	7440-62-2	
Zinc	24.3	mg/kg	1.0	6020	05/16/12 15:20	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 20:26	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 20:26	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 20:26	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 20:26	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 20:26	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 20:26	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 20:26	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.09 (continued)

Sample Tag: VAP-A5.5-NP194_41-42

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 21:20	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/13/12 21:20	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 21:20	PL	84-66-2	
Dimethyl phthalate	170	ug/kg	40	8270C	05/13/12 21:20	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/13/12 21:20	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/13/12 21:20	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.09 (continued)

Sample Tag: VAP-A5.5-NP194_41-42

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 21:20	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 21:20	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.10
Sample Tag: VAP-A5.5-NP194_46-47
Collected Date/Time: 05/09/2012 14:10
Matrix: Soil
COC Reference: 67614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:53	EMR		
Extraction, PCB	Completed			3550B	05/15/12 14:37	ADB		
Mercury Digestion	Completed			7471A	05/16/12 11:20	JRH		
Metal Digestion	Completed			3050B	05/16/12 09:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/10/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/16/12 15:23	PER	7440-36-0	
Arsenic	2.95	mg/kg	0.10	6020	05/16/12 15:23	PER	7440-38-2	
Barium	38.9	mg/kg	1.0	6020	05/16/12 15:23	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/16/12 15:23	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/16/12 15:23	PER	7440-42-8	
Cadmium	0.19	mg/kg	0.10	6020	05/16/12 15:23	PER	7440-43-9	
Chromium	3.27	mg/kg	0.21	6020	05/16/12 15:23	PER	7440-47-3	
Cobalt	4.19	mg/kg	0.21	6020	05/16/12 15:23	PER	7440-48-4	
Copper	11.3	mg/kg	0.21	6020	05/16/12 15:23	PER	7440-50-8	
Lead	5.97	mg/kg	0.21	6020	05/16/12 15:23	PER	7439-92-1	
Manganese	290	mg/kg	0.21	6020	05/16/12 15:23	PER	7439-96-5	
Mercury	0.0104	mg/kg	0.0056	7471A	05/16/12 14:41	JRT	7439-97-6	
Nickel	12.3	mg/kg	0.21	6020	05/16/12 15:23	PER	7440-02-0	
Selenium	0.33	mg/kg	0.21	6020	05/16/12 15:23	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/16/12 15:23	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/16/12 15:23	PER	7440-28-0	
Vanadium	5.32	mg/kg	0.21	6020	05/16/12 15:23	PER	7440-62-2	
Zinc	20.2	mg/kg	1.0	6020	05/16/12 15:23	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 15:30	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 15:30	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 15:30	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 15:30	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 15:30	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 15:30	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 15:30	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.10 (continued)

Sample Tag: VAP-A5.5-NP194_46-47

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 21:54	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/13/12 21:54	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 21:54	PL	84-66-2	
Dimethyl phthalate	140	ug/kg	40	8270C	05/13/12 21:54	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/13/12 21:54	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/13/12 21:54	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.10 (continued)

Sample Tag: VAP-A5.5-NP194_46-47

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 21:54	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 21:54	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.11
Sample Tag: VAP-A5.5-NP194_52-53
Collected Date/Time: 05/09/2012 15:00
Matrix: Soil
COC Reference: 67614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/15/12 14:37	ADB		
Mercury Digestion	Completed			7471A	05/16/12 11:20	JRH		
Metal Digestion	Completed			3050B	05/16/12 09:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/10/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/16/12 15:25	PER	7440-36-0	
Arsenic	3.00	mg/kg	0.10	6020	05/16/12 15:25	PER	7440-38-2	
Barium	52.6	mg/kg	1.0	6020	05/16/12 15:25	PER	7440-39-3	
Beryllium	0.23	mg/kg	0.21	6020	05/16/12 15:25	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/16/12 15:25	PER	7440-42-8	
Cadmium	0.21	mg/kg	0.10	6020	05/16/12 15:25	PER	7440-43-9	
Chromium	3.80	mg/kg	0.21	6020	05/16/12 15:25	PER	7440-47-3	
Cobalt	5.57	mg/kg	0.21	6020	05/16/12 15:25	PER	7440-48-4	
Copper	14.7	mg/kg	0.21	6020	05/16/12 15:25	PER	7440-50-8	
Lead	7.66	mg/kg	0.21	6020	05/16/12 15:25	PER	7439-92-1	
Manganese	340	mg/kg	0.21	6020	05/16/12 15:25	PER	7439-96-5	
Mercury	0.0148	mg/kg	0.0058	7471A	05/16/12 14:44	JRT	7439-97-6	
Nickel	16.3	mg/kg	0.21	6020	05/16/12 15:25	PER	7440-02-0	
Selenium	0.38	mg/kg	0.21	6020	05/16/12 15:25	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/16/12 15:25	PER	7440-22-4	
Thallium	0.25	mg/kg	0.21	6020	05/16/12 15:25	PER	7440-28-0	
Vanadium	6.27	mg/kg	0.21	6020	05/16/12 15:25	PER	7440-62-2	
Zinc	28.5	mg/kg	1.0	6020	05/16/12 15:25	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 15:41	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 15:41	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 15:41	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 15:41	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 15:41	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 15:41	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 15:41	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.11 (continued)

Sample Tag: VAP-A5.5-NP194_52-53

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/13/12 15:08	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/13/12 15:08	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/13/12 15:08	PL	84-66-2	
Dimethyl phthalate	180	ug/kg	40	8270C	05/13/12 15:08	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/13/12 15:08	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/13/12 15:08	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.11 (continued)

Sample Tag: VAP-A5.5-NP194_52-53

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/13/12 15:08	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 15:08	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.12
Sample Tag: VAP-A5.5-NP194_56-57
Collected Date/Time: 05/09/2012 15:40
Matrix: Soil
COC Reference: 67614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/15/12 14:37	ADB		
Mercury Digestion	Completed			7471A	05/16/12 11:20	JRH		
Metal Digestion	Completed			3050B	05/16/12 09:00	PER		

Inorganics

Total Solids	98	%	1	Std M 2540 B	05/10/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/16/12 15:33	PER	7440-36-0	
Arsenic	8.13	mg/kg	0.10	6020	05/16/12 15:33	PER	7440-38-2	
Barium	8.96	mg/kg	1.0	6020	05/16/12 15:33	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/16/12 15:33	PER	7440-41-7	
Boron	Not detected	mg/kg	3.6	6020	05/16/12 15:33	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/16/12 15:33	PER	7440-43-9	
Chromium	2.09	mg/kg	0.20	6020	05/16/12 15:33	PER	7440-47-3	
Cobalt	2.45	mg/kg	0.20	6020	05/16/12 15:33	PER	7440-48-4	
Copper	4.56	mg/kg	0.20	6020	05/16/12 15:33	PER	7440-50-8	
Lead	6.18	mg/kg	0.20	6020	05/16/12 15:33	PER	7439-92-1	
Manganese	853	mg/kg	0.20	6020	05/16/12 15:33	PER	7439-96-5	
Mercury	0.0264	mg/kg	0.0052	7471A	05/16/12 14:57	JRT	7439-97-6	
Nickel	7.37	mg/kg	0.20	6020	05/16/12 15:33	PER	7440-02-0	
Selenium	0.22	mg/kg	0.20	6020	05/16/12 15:33	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/16/12 15:33	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/16/12 15:33	PER	7440-28-0	
Vanadium	2.77	mg/kg	0.20	6020	05/16/12 15:33	PER	7440-62-2	
Zinc	12.8	mg/kg	1.0	6020	05/16/12 15:33	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 15:51	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 15:51	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 15:51	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 15:51	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 15:51	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 15:51	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 15:51	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	208-96-8	
Acetophenone	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.12 (continued)

Sample Tag: VAP-A5.5-NP194_56-57

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	120-12-7	
Atrazine	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 15:42	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	105-60-2	
Carbazole	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	108-60-1	
Chrysene	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/13/12 15:42	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 15:42	PL	84-66-2	
Dimethyl phthalate	90	ug/kg	30	8270C	05/13/12 15:42	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/13/12 15:42	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	206-44-0	
Fluorene	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	193-39-5	
Isophorone	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/13/12 15:42	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.12 (continued)

Sample Tag: VAP-A5.5-NP194_56-57

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	86-30-6	
Naphthalene	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 15:42	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	85-01-8	
Phenol	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	108-95-2	
Pyrene	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	30	8270C	05/13/12 15:42	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.13
Sample Tag: VAP-A5.5-NP194_62-63
Collected Date/Time: 05/09/2012 16:30
Matrix: Soil
COC Reference: 67614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/15/12 14:37	ADB		
Mercury Digestion	Completed			7471A	05/16/12 11:20	JRH		
Metal Digestion	Completed			3050B	05/16/12 09:00	PER		

Inorganics

Total Solids	96	%	1	Std M 2540 B	05/10/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/16/12 15:35	PER	7440-36-0	
Arsenic	0.68	mg/kg	0.10	6020	05/16/12 15:35	PER	7440-38-2	
Barium	4.79	mg/kg	1.0	6020	05/16/12 15:35	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/16/12 15:35	PER	7440-41-7	
Boron	Not detected	mg/kg	3.8	6020	05/16/12 15:35	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/16/12 15:35	PER	7440-43-9	
Chromium	0.62	mg/kg	0.20	6020	05/16/12 15:35	PER	7440-47-3	
Cobalt	0.69	mg/kg	0.20	6020	05/16/12 15:35	PER	7440-48-4	
Copper	1.53	mg/kg	0.20	6020	05/16/12 15:35	PER	7440-50-8	
Lead	0.95	mg/kg	0.20	6020	05/16/12 15:35	PER	7439-92-1	
Manganese	85.1	mg/kg	0.20	6020	05/16/12 15:35	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0051	7471A	05/16/12 14:46	JRT	7439-97-6	
Nickel	2.32	mg/kg	0.20	6020	05/16/12 15:35	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/16/12 15:35	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/16/12 15:35	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/16/12 15:35	PER	7440-28-0	
Vanadium	1.21	mg/kg	0.20	6020	05/16/12 15:35	PER	7440-62-2	
Zinc	5.95	mg/kg	1.0	6020	05/16/12 15:35	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 16:02	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 16:02	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 16:02	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 16:02	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 16:02	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 16:02	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 16:02	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	208-96-8	
Acetophenone	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.13 (continued)

Sample Tag: VAP-A5.5-NP194_62-63

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	120-12-7	
Atrazine	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 16:16	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	105-60-2	
Carbazole	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	108-60-1	
Chrysene	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/13/12 16:16	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 16:16	PL	84-66-2	
Dimethyl phthalate	130	ug/kg	30	8270C	05/13/12 16:16	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/13/12 16:16	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	206-44-0	
Fluorene	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	193-39-5	
Isophorone	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/13/12 16:16	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.13 (continued)

Sample Tag: VAP-A5.5-NP194_62-63

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	86-30-6	
Naphthalene	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 16:16	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	85-01-8	
Phenol	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	108-95-2	
Pyrene	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	30	8270C	05/13/12 16:16	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.14
Sample Tag: SB-A5.2-NE150_20-21
Collected Date/Time: 05/09/2012 08:51
Matrix: Soil
COC Reference: 67616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/15/12 14:37	ADB		
Mercury Digestion	Completed			7471A	05/16/12 11:20	JRH		
Metal Digestion	Completed			3050B	05/16/12 09:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/10/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/16/12 15:37	PER	7440-36-0	
Arsenic	2.08	mg/kg	0.10	6020	05/16/12 15:37	PER	7440-38-2	
Barium	29.9	mg/kg	1.0	6020	05/16/12 15:37	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/16/12 15:37	PER	7440-41-7	
Boron	Not detected	mg/kg	3.9	6020	05/16/12 15:37	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	05/16/12 15:37	PER	7440-43-9	
Chromium	2.22	mg/kg	0.20	6020	05/16/12 15:37	PER	7440-47-3	
Cobalt	2.43	mg/kg	0.20	6020	05/16/12 15:37	PER	7440-48-4	
Copper	8.17	mg/kg	0.20	6020	05/16/12 15:37	PER	7440-50-8	
Lead	4.31	mg/kg	0.20	6020	05/16/12 15:37	PER	7439-92-1	
Manganese	247	mg/kg	0.20	6020	05/16/12 15:37	PER	7439-96-5	
Mercury	0.0068	mg/kg	0.0055	7471A	05/16/12 14:59	JRT	7439-97-6	
Nickel	7.28	mg/kg	0.20	6020	05/16/12 15:37	PER	7440-02-0	
Selenium	0.25	mg/kg	0.20	6020	05/16/12 15:37	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/16/12 15:37	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/16/12 15:37	PER	7440-28-0	
Vanadium	4.19	mg/kg	0.20	6020	05/16/12 15:37	PER	7440-62-2	
Zinc	14.8	mg/kg	1.0	6020	05/16/12 15:37	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 16:12	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 16:12	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 16:12	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 16:12	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 16:12	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 16:12	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 16:12	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.14 (continued)

Sample Tag: SB-A5.2-NE150_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 16:50	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/13/12 16:50	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 16:50	PL	84-66-2	
Dimethyl phthalate	70	ug/kg	40	8270C	05/13/12 16:50	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/13/12 16:50	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/13/12 16:50	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.14 (continued)

Sample Tag: SB-A5.2-NE150_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 16:50	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 16:50	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.15
Sample Tag: SB-A5.2-NE150_16-20
Collected Date/Time: 05/09/2012 09:25
Matrix: Groundwater
COC Reference: 67616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.1	IR
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/14/12 22:46	EMR		
Extraction, PCB	Completed			3510C	05/14/12 15:24	ADB		
Mercury Digestion	Completed			7471A	05/11/12 10:00	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:28	SLS	7440-36-0	
Arsenic, Dissolved	0.014	mg/L	0.002	6020	05/21/12 18:28	SLS	7440-38-2	
Barium, Dissolved	0.494	mg/L	0.010	6020	05/21/12 18:28	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 18:28	SLS	7440-41-7	
Boron, Dissolved	0.45	mg/L	0.04	6020	05/21/12 18:28	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 18:28	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:28	SLS	7440-47-3	
Cobalt, Dissolved	0.013	mg/L	0.010	6020	05/21/12 18:28	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:28	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:28	SLS	7439-92-1	
Manganese, Dissolved	0.378	mg/L	0.010	6020	05/21/12 18:28	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/11/12 15:19	JRT	7439-97-6	
Nickel, Dissolved	0.025	mg/L	0.010	6020	05/21/12 18:28	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:28	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 18:28	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:28	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:28	SLS	7440-62-2	
Zinc, Dissolved	0.017	mg/L	0.010	6020	05/21/12 18:28	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/14/12 21:33	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/14/12 21:33	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/14/12 21:33	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/14/12 21:33	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/14/12 21:33	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/14/12 21:33	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/14/12 21:33	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/15/12 18:20	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/15/12 18:20	PL	118-74-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.15 (continued)

Sample Tag: SB-A5.2-NE150_16-20

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/15/12 15:32	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/15/12 15:32	PL	84-66-2	
Dimethyl phthalate	4	ug/L	2	8270C	05/15/12 15:32	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/15/12 15:32	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	88-75-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.15 (continued)

Sample Tag: SB-A5.2-NE150_16-20

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 15:32	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.16
Sample Tag: SB-A5.2-NE150_24-25
Collected Date/Time: 05/09/2012 10:05
Matrix: Soil
COC Reference: 67616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/15/12 14:37	ADB		
Mercury Digestion	Completed			7471A	05/16/12 11:20	JRH		
Metal Digestion	Completed			3050B	05/16/12 09:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/10/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/16/12 15:40	PER	7440-36-0	
Arsenic	2.54	mg/kg	0.10	6020	05/16/12 15:40	PER	7440-38-2	
Barium	21.8	mg/kg	1.0	6020	05/16/12 15:40	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/16/12 15:40	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/16/12 15:40	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/16/12 15:40	PER	7440-43-9	
Chromium	2.00	mg/kg	0.20	6020	05/16/12 15:40	PER	7440-47-3	
Cobalt	2.18	mg/kg	0.20	6020	05/16/12 15:40	PER	7440-48-4	
Copper	6.85	mg/kg	0.20	6020	05/16/12 15:40	PER	7440-50-8	
Lead	3.56	mg/kg	0.20	6020	05/16/12 15:40	PER	7439-92-1	
Manganese	218	mg/kg	0.20	6020	05/16/12 15:40	PER	7439-96-5	
Mercury	0.0075	mg/kg	0.0055	7471A	05/16/12 15:02	JRT	7439-97-6	
Nickel	6.52	mg/kg	0.20	6020	05/16/12 15:40	PER	7440-02-0	
Selenium	0.30	mg/kg	0.20	6020	05/16/12 15:40	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/16/12 15:40	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/16/12 15:40	PER	7440-28-0	
Vanadium	3.66	mg/kg	0.20	6020	05/16/12 15:40	PER	7440-62-2	
Zinc	9.61	mg/kg	1.0	6020	05/16/12 15:40	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 16:23	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 16:23	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 16:23	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 16:23	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 16:23	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 16:23	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 16:23	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.16 (continued)

Sample Tag: SB-A5.2-NE150_24-25

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 17:24	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/13/12 17:24	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 17:24	PL	84-66-2	
Dimethyl phthalate	170	ug/kg	40	8270C	05/13/12 17:24	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/13/12 17:24	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/13/12 17:24	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.16 (continued)

Sample Tag: SB-A5.2-NE150_24-25

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 17:24	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 17:24	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.17
Sample Tag: SB-A5.2-NE157_1-2
Collected Date/Time: 05/09/2012 10:50
Matrix: Soil
COC Reference: 67616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/15/12 14:37	ADB		
Mercury Digestion	Completed			7471A	05/16/12 11:20	JRH		
Metal Digestion	Completed			3050B	05/16/12 09:00	PER		

Inorganics

Total Solids	79	%	1	Std M 2540 B	05/10/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/16/12 15:42	PER	7440-36-0	
Arsenic	0.40	mg/kg	0.10	6020	05/16/12 15:42	PER	7440-38-2	
Barium	10.0	mg/kg	1.0	6020	05/16/12 15:42	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/16/12 15:42	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/16/12 15:42	PER	7440-42-8	
Cadmium	0.10	mg/kg	0.10	6020	05/16/12 15:42	PER	7440-43-9	
Chromium	1.13	mg/kg	0.21	6020	05/16/12 15:42	PER	7440-47-3	
Cobalt	86.2	mg/kg	0.21	6020	05/16/12 15:42	PER	7440-48-4	
Copper	2.98	mg/kg	0.21	6020	05/16/12 15:42	PER	7440-50-8	
Lead	3.20	mg/kg	0.21	6020	05/16/12 15:42	PER	7439-92-1	
Manganese	104	mg/kg	0.21	6020	05/16/12 15:42	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0064	7471A	05/16/12 15:04	JRT	7439-97-6	
Nickel	3.18	mg/kg	0.21	6020	05/16/12 15:42	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/16/12 15:42	PER	7782-49-2	
Silver	8.18	mg/kg	0.10	6020	05/16/12 15:42	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/16/12 15:42	PER	7440-28-0	
Vanadium	1.11	mg/kg	0.21	6020	05/16/12 15:42	PER	7440-62-2	
Zinc	9.54	mg/kg	1.0	6020	05/16/12 15:42	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 16:34	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 16:34	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 16:34	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 16:34	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 16:34	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 16:34	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 16:34	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	400	ug/kg	300	8270C	05/13/12 23:02	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	208-96-8	
Acetophenone	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.17 (continued)

Sample Tag: SB-A5.2-NE157_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	600	ug/kg	300	8270C	05/13/12 23:02	PL	120-12-7	
Atrazine	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	500	8270C	05/13/12 23:02	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	100-52-7	
Benzo(a)anthracene	1,300	ug/kg	300	8270C	05/13/12 23:02	PL	56-55-3	
Benzo(a)pyrene	1,200	ug/kg	300	8270C	05/13/12 23:02	PL	50-32-8	
Benzo(b)fluoranthene	2,200	ug/kg	300	8270C	05/13/12 23:02	PL	205-99-2	p
Benzo(ghi)perylene	500	ug/kg	300	8270C	05/13/12 23:02	PL	191-24-2	
Benzo(k)fluoranthene	2,200	ug/kg	300	8270C	05/13/12 23:02	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	105-60-2	
Carbazole	700	ug/kg	300	8270C	05/13/12 23:02	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	108-60-1	
Chrysene	1,400	ug/kg	300	8270C	05/13/12 23:02	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	500	8270C	05/13/12 23:02	PL	53-70-3	X
Dibenzofuran	300	ug/kg	300	8270C	05/13/12 23:02	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	500	8270C	05/13/12 23:02	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	500	8270C	05/13/12 23:02	PL	117-81-7	X
Fluoranthene	3,300	ug/kg	300	8270C	05/13/12 23:02	PL	206-44-0	
Fluorene	500	ug/kg	300	8270C	05/13/12 23:02	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	500	ug/kg	300	8270C	05/13/12 23:02	PL	193-39-5	
Isophorone	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	500	8270C	05/13/12 23:02	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	88-74-4	

X-Elevated reporting limit due to matrix interference

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.17 (continued)

Sample Tag: SB-A5.2-NE157_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	86-30-6	
Naphthalene	700	ug/kg	300	8270C	05/13/12 23:02	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	500	8270C	05/13/12 23:02	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	87-86-5	
Phenanthrene	2,500	ug/kg	300	8270C	05/13/12 23:02	PL	85-01-8	
Phenol	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	108-95-2	
Pyrene	2,500	ug/kg	300	8270C	05/13/12 23:02	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	300	8270C	05/13/12 23:02	PL	88-06-2	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.18

Sample Tag: SB-A5.2-NE157_3-4

Collected Date/Time: 05/09/2012 11:35

Matrix: Soil

COC Reference: 67616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/15/12 14:37	ADB		
Mercury Digestion	Completed			7471A	05/16/12 11:20	JRH		
Metal Digestion	Completed			3050B	05/16/12 09:00	PER		

Inorganics

Total Solids	80	%	1	Std M 2540 B	05/10/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/16/12 15:44	PER	7440-36-0	
Arsenic	1.56	mg/kg	0.10	6020	05/16/12 15:44	PER	7440-38-2	
Barium	20.7	mg/kg	1.0	6020	05/16/12 15:44	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/16/12 15:44	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	05/16/12 15:44	PER	7440-42-8	
Cadmium	0.33	mg/kg	0.10	6020	05/16/12 15:44	PER	7440-43-9	
Chromium	16.5	mg/kg	0.21	6020	05/16/12 15:44	PER	7440-47-3	
Cobalt	1.58	mg/kg	0.21	6020	05/16/12 15:44	PER	7440-48-4	
Copper	43.6	mg/kg	0.21	6020	05/16/12 15:44	PER	7440-50-8	
Lead	34.6	mg/kg	0.21	6020	05/16/12 15:44	PER	7439-92-1	
Manganese	194	mg/kg	0.21	6020	05/16/12 15:44	PER	7439-96-5	
Mercury	0.0578	mg/kg	0.0063	7471A	05/16/12 15:06	JRT	7439-97-6	
Nickel	31.5	mg/kg	0.21	6020	05/16/12 15:44	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/16/12 15:44	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/16/12 15:44	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/16/12 15:44	PER	7440-28-0	
Vanadium	1.68	mg/kg	0.21	6020	05/16/12 15:44	PER	7440-62-2	
Zinc	28.1	mg/kg	1.0	6020	05/16/12 15:44	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/16/12 15:45	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/16/12 15:45	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/16/12 15:45	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/16/12 15:45	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/16/12 15:45	JANB	12672-29-6	
PCB-1254	40	ug/kg	3	8082A	05/16/12 15:45	JANB	11097-69-1	Q
PCB-1260	Not detected	ug/kg	3	8082A	05/16/12 15:45	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	23,000	ug/kg	2,000	8270C	05/13/12 23:36	PL	83-32-9	X
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Q-Reported result represents most abundant aroclor

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.18 (continued)

Sample Tag: SB-A5.2-NE157_3-4

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acenaphthylene	3,000	ug/kg	2,000	8270C	05/13/12 23:36	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	98-86-2	X
Anthracene	19,000	ug/kg	2,000	8270C	05/13/12 23:36	PL	120-12-7	X
Atrazine	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	1912-24-9	X
1,1'-Biphenyl	4,000	ug/kg	2,000	8270C	05/13/12 23:36	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	3,000	8270C	05/13/12 23:36	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	100-52-7	X
Benzo(a)anthracene	22,000	ug/kg	2,000	8270C	05/13/12 23:36	PL	56-55-3	X
Benzo(a)pyrene	11,000	ug/kg	2,000	8270C	05/13/12 23:36	PL	50-32-8	X
Benzo(b)fluoranthene	27,000	ug/kg	2,000	8270C	05/13/12 23:36	PL	205-99-2	Xp
Benzo(ghi)perylene	4,000	ug/kg	2,000	8270C	05/13/12 23:36	PL	191-24-2	X
Benzo(k)fluoranthene	27,000	ug/kg	2,000	8270C	05/13/12 23:36	PL	207-08-9	Xp
Butyl benzyl phthalate	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	105-60-2	X
Carbazole	12,000	ug/kg	2,000	8270C	05/13/12 23:36	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	108-60-1	X
Chrysene	22,000	ug/kg	2,000	8270C	05/13/12 23:36	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	3,000	8270C	05/13/12 23:36	PL	53-70-3	X
Dibenzofuran	18,000	ug/kg	2,000	8270C	05/13/12 23:36	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	3,000	8270C	05/13/12 23:36	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	3,000	8270C	05/13/12 23:36	PL	117-81-7	X
Fluoranthene	103,000	ug/kg	2,000	8270C	05/13/12 23:36	PL	206-44-0	X
Fluorene	29,000	ug/kg	2,000	8270C	05/13/12 23:36	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	4,000	ug/kg	2,000	8270C	05/13/12 23:36	PL	193-39-5	X
Isophorone	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	78-59-1	X
2-Methylnaphthalene	19,000	ug/kg	2,000	8270C	05/13/12 23:36	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	95-48-7	X

X-Elevated reporting limit due to matrix interference

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.18 (continued)

Sample Tag: SB-A5.2-NE157_3-4

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-, 4-Methylphenol	Not detected	ug/kg	3,000	8270C	05/13/12 23:36	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	86-30-6	X
Naphthalene	39,000	ug/kg	2,000	8270C	05/13/12 23:36	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	3,000	8270C	05/13/12 23:36	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	87-86-5	X
Phenanthrene	106,000	ug/kg	2,000	8270C	05/13/12 23:36	PL	85-01-8	X
Phenol	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	108-95-2	X
Pyrene	69,000	ug/kg	2,000	8270C	05/13/12 23:36	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	2,000	8270C	05/13/12 23:36	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.19
Sample Tag: SB-A5.2-NE157_9-10
Collected Date/Time: 05/09/2012 11:55
Matrix: Soil
COC Reference: 67616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/15/12 14:37	ADB		
Mercury Digestion	Completed			7471A	05/16/12 11:20	JRH		
Metal Digestion	Completed			3050B	05/16/12 09:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	05/10/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/16/12 15:46	PER	7440-36-0	
Arsenic	0.68	mg/kg	0.10	6020	05/16/12 15:46	PER	7440-38-2	
Barium	24.2	mg/kg	1.0	6020	05/16/12 15:46	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/16/12 15:46	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/16/12 15:46	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/16/12 15:46	PER	7440-43-9	
Chromium	2.03	mg/kg	0.20	6020	05/16/12 15:46	PER	7440-47-3	
Cobalt	1.93	mg/kg	0.20	6020	05/16/12 15:46	PER	7440-48-4	
Copper	8.03	mg/kg	0.20	6020	05/16/12 15:46	PER	7440-50-8	
Lead	3.88	mg/kg	0.20	6020	05/16/12 15:46	PER	7439-92-1	
Manganese	235	mg/kg	0.20	6020	05/16/12 15:46	PER	7439-96-5	
Mercury	0.0073	mg/kg	0.0055	7471A	05/16/12 15:08	JRT	7439-97-6	
Nickel	6.10	mg/kg	0.20	6020	05/16/12 15:46	PER	7440-02-0	
Selenium	0.25	mg/kg	0.20	6020	05/16/12 15:46	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/16/12 15:46	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/16/12 15:46	PER	7440-28-0	
Vanadium	3.67	mg/kg	0.20	6020	05/16/12 15:46	PER	7440-62-2	
Zinc	11.4	mg/kg	1.0	6020	05/16/12 15:46	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 16:44	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 16:44	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 16:44	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 16:44	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 16:44	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 16:44	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 16:44	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.19 (continued)

Sample Tag: SB-A5.2-NE157_9-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 17:58	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/13/12 17:58	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 17:58	PL	84-66-2	
Dimethyl phthalate	40	ug/kg	40	8270C	05/13/12 17:58	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/13/12 17:58	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/13/12 17:58	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.19 (continued)

Sample Tag: SB-A5.2-NE157_9-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 17:58	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 17:58	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.20
Sample Tag: SB-A5.2-NE157_15-16
Collected Date/Time: 05/09/2012 12:05
Matrix: Soil
COC Reference: 67616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/15/12 14:37	ADB		
Mercury Digestion	Completed			7471A	05/16/12 11:20	JRH		
Metal Digestion	Completed			3050B	05/16/12 09:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/10/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/16/12 15:49	PER	7440-36-0	
Arsenic	2.23	mg/kg	0.10	6020	05/16/12 15:49	PER	7440-38-2	
Barium	20.6	mg/kg	1.0	6020	05/16/12 15:49	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/16/12 15:49	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/16/12 15:49	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	05/16/12 15:49	PER	7440-43-9	
Chromium	1.57	mg/kg	0.20	6020	05/16/12 15:49	PER	7440-47-3	
Cobalt	2.27	mg/kg	0.20	6020	05/16/12 15:49	PER	7440-48-4	
Copper	10.8	mg/kg	0.20	6020	05/16/12 15:49	PER	7440-50-8	
Lead	3.73	mg/kg	0.20	6020	05/16/12 15:49	PER	7439-92-1	
Manganese	184	mg/kg	0.20	6020	05/16/12 15:49	PER	7439-96-5	
Mercury	0.0062	mg/kg	0.0055	7471A	05/16/12 15:11	JRT	7439-97-6	
Nickel	6.59	mg/kg	0.20	6020	05/16/12 15:49	PER	7440-02-0	
Selenium	0.20	mg/kg	0.20	6020	05/16/12 15:49	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/16/12 15:49	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/16/12 15:49	PER	7440-28-0	
Vanadium	2.71	mg/kg	0.20	6020	05/16/12 15:49	PER	7440-62-2	
Zinc	17.9	mg/kg	1.0	6020	05/16/12 15:49	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 16:55	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 16:55	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 16:55	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 16:55	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 16:55	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 16:55	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 16:55	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.20 (continued)

Sample Tag: SB-A5.2-NE157_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 18:32	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/13/12 18:32	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 18:32	PL	84-66-2	
Dimethyl phthalate	100	ug/kg	40	8270C	05/13/12 18:32	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/13/12 18:32	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/13/12 18:32	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.20 (continued)

Sample Tag: SB-A5.2-NE157_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 18:32	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 18:32	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.21
Sample Tag: SB-A5.2-NE157_17-21
Collected Date/Time: 05/09/2012 13:00
Matrix: Groundwater
COC Reference: 67616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.1	IR
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/14/12 22:46	EMR		
Extraction, PCB	Completed			3510C	05/14/12 15:24	ADB		
Mercury Digestion	Completed			7471A	05/11/12 10:00	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:32	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:32	SLS	7440-38-2	
Barium, Dissolved	0.436	mg/L	0.010	6020	05/21/12 18:32	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 18:32	SLS	7440-41-7	
Boron, Dissolved	0.31	mg/L	0.04	6020	05/21/12 18:32	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 18:32	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:32	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:32	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:32	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:32	SLS	7439-92-1	
Manganese, Dissolved	0.475	mg/L	0.010	6020	05/21/12 18:32	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/11/12 15:23	JRT	7439-97-6	
Nickel, Dissolved	0.023	mg/L	0.010	6020	05/21/12 18:32	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:32	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 18:32	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:32	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:32	SLS	7440-62-2	
Zinc, Dissolved	0.021	mg/L	0.010	6020	05/21/12 18:32	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/14/12 21:22	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/14/12 21:22	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/14/12 21:22	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/14/12 21:22	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/14/12 21:22	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/14/12 21:22	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/14/12 21:22	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/15/12 18:48	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/15/12 18:48	PL	118-74-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.21 (continued)

Sample Tag: SB-A5.2-NE157_17-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	3	ug/L	1	8270C	05/15/12 16:01	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/15/12 16:01	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	105-60-2	
Carbazole	2	ug/L	1	8270C	05/15/12 16:01	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	53-70-3	
Dibenzofuran	1	ug/L	1	8270C	05/15/12 16:01	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/15/12 16:01	PL	84-66-2	
Dimethyl phthalate	6	ug/L	2	8270C	05/15/12 16:01	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/15/12 16:01	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	206-44-0	
Fluorene	2	ug/L	1	8270C	05/15/12 16:01	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	78-59-1	
2-Methylnaphthalene	3	ug/L	1	8270C	05/15/12 16:01	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	88-75-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.21 (continued)

Sample Tag: SB-A5.2-NE157_17-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	86-30-6	
Naphthalene	9	ug/L	1	8270C	05/15/12 16:01	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	87-86-5	
Phenanthrene	4	ug/L	1	8270C	05/15/12 16:01	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 16:01	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.22
Sample Tag: SB-A5.2-NE157_24-25
Collected Date/Time: 05/09/2012 14:12
Matrix: Soil
COC Reference: 67616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/15/12 14:37	ADB		
Mercury Digestion	Completed			7471A	05/16/12 11:20	JRH		
Metal Digestion	Completed			3050B	05/16/12 09:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/10/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/16/12 15:51	PER	7440-36-0	
Arsenic	2.41	mg/kg	0.10	6020	05/16/12 15:51	PER	7440-38-2	
Barium	22.7	mg/kg	1.0	6020	05/16/12 15:51	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/16/12 15:51	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/16/12 15:51	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/16/12 15:51	PER	7440-43-9	
Chromium	2.10	mg/kg	0.21	6020	05/16/12 15:51	PER	7440-47-3	
Cobalt	2.53	mg/kg	0.21	6020	05/16/12 15:51	PER	7440-48-4	
Copper	7.01	mg/kg	0.21	6020	05/16/12 15:51	PER	7440-50-8	
Lead	3.92	mg/kg	0.21	6020	05/16/12 15:51	PER	7439-92-1	
Manganese	248	mg/kg	0.21	6020	05/16/12 15:51	PER	7439-96-5	
Mercury	0.0092	mg/kg	0.0056	7471A	05/16/12 15:13	JRT	7439-97-6	
Nickel	7.46	mg/kg	0.21	6020	05/16/12 15:51	PER	7440-02-0	
Selenium	0.22	mg/kg	0.21	6020	05/16/12 15:51	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/16/12 15:51	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/16/12 15:51	PER	7440-28-0	
Vanadium	3.95	mg/kg	0.21	6020	05/16/12 15:51	PER	7440-62-2	
Zinc	20.9	mg/kg	1.0	6020	05/16/12 15:51	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 17:26	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 17:26	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 17:26	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 17:26	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 17:26	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 17:26	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 17:26	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.22 (continued)

Sample Tag: SB-A5.2-NE157_24-25

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 19:06	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/13/12 19:06	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 19:06	PL	84-66-2	
Dimethyl phthalate	60	ug/kg	40	8270C	05/13/12 19:06	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/13/12 19:06	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/13/12 19:06	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.22 (continued)

Sample Tag: SB-A5.2-NE157_24-25

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/13/12 19:06	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/13/12 19:06	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.23
Sample Tag: SB-A5.2-NO156_1-2
Collected Date/Time: 05/09/2012 14:51
Matrix: Soil
COC Reference: 67616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/15/12 14:37	ADB		
Mercury Digestion	Completed			7471A	05/16/12 11:20	JRH		
Metal Digestion	Completed			3050B	05/16/12 09:00	PER		

Inorganics

Total Solids	93	%	1	Std M 2540 B	05/10/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/16/12 15:53	PER	7440-36-0	
Arsenic	0.49	mg/kg	0.10	6020	05/16/12 15:53	PER	7440-38-2	
Barium	4.74	mg/kg	1.0	6020	05/16/12 15:53	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/16/12 15:53	PER	7440-41-7	
Boron	Not detected	mg/kg	3.9	6020	05/16/12 15:53	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/16/12 15:53	PER	7440-43-9	
Chromium	1.02	mg/kg	0.20	6020	05/16/12 15:53	PER	7440-47-3	
Cobalt	1.01	mg/kg	0.20	6020	05/16/12 15:53	PER	7440-48-4	
Copper	1.21	mg/kg	0.20	6020	05/16/12 15:53	PER	7440-50-8	
Lead	1.43	mg/kg	0.20	6020	05/16/12 15:53	PER	7439-92-1	
Manganese	120	mg/kg	0.20	6020	05/16/12 15:53	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0054	7471A	05/16/12 15:15	JRT	7439-97-6	
Nickel	4.55	mg/kg	0.20	6020	05/16/12 15:53	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/16/12 15:53	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/16/12 15:53	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/16/12 15:53	PER	7440-28-0	
Vanadium	1.13	mg/kg	0.20	6020	05/16/12 15:53	PER	7440-62-2	
Zinc	1.93	mg/kg	1.0	6020	05/16/12 15:53	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 17:37	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 17:37	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 17:37	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 17:37	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 17:37	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 17:37	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 17:37	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.23 (continued)

Sample Tag: SB-A5.2-NO156_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/15/12 04:09	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	100-52-7	
Benzo(a)anthracene	40	ug/kg	40	8270C	05/15/12 04:09	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	50-32-8	
Benzo(b)fluoranthene	60	ug/kg	40	8270C	05/15/12 04:09	PL	205-99-2	p
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	191-24-2	
Benzo(k)fluoranthene	60	ug/kg	40	8270C	05/15/12 04:09	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/15/12 04:09	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/15/12 04:09	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/15/12 04:09	PL	117-81-7	
Fluoranthene	80	ug/kg	40	8270C	05/15/12 04:09	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/15/12 04:09	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	88-75-5	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.23 (continued)

Sample Tag: SB-A5.2-NO156_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/15/12 04:09	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	87-86-5	
Phenanthrene	50	ug/kg	40	8270C	05/15/12 04:09	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	108-95-2	
Pyrene	80	ug/kg	40	8270C	05/15/12 04:09	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 04:09	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.24
Sample Tag: SB-A5.2-NO156_6-7
Collected Date/Time: 05/09/2012 16:00
Matrix: Soil
COC Reference: 67616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/15/12 14:37	ADB		
Mercury Digestion	Completed			7471A	05/16/12 11:20	JRH		
Metal Digestion	Completed			3050B	05/17/12 09:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/10/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 12:23	PER	7440-36-0	
Arsenic	0.68	mg/kg	0.10	6020	05/17/12 12:23	PER	7440-38-2	
Barium	4.06	mg/kg	1.0	6020	05/17/12 12:23	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 12:23	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 12:23	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 12:23	PER	7440-43-9	
Chromium	1.90	mg/kg	0.20	6020	05/17/12 12:23	PER	7440-47-3	
Cobalt	0.82	mg/kg	0.20	6020	05/17/12 12:23	PER	7440-48-4	
Copper	2.48	mg/kg	0.20	6020	05/17/12 12:23	PER	7440-50-8	
Lead	2.30	mg/kg	0.20	6020	05/17/12 12:23	PER	7439-92-1	
Manganese	70.0	mg/kg	0.20	6020	05/17/12 12:23	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0057	7471A	05/16/12 15:17	JRT	7439-97-6	
Nickel	2.55	mg/kg	0.20	6020	05/17/12 12:23	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 12:23	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 12:23	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 12:23	PER	7440-28-0	
Vanadium	1.84	mg/kg	0.20	6020	05/17/12 12:23	PER	7440-62-2	
Zinc	4.30	mg/kg	1.0	6020	05/17/12 12:23	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 17:47	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 17:47	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 17:47	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 17:47	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 17:47	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 17:47	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 17:47	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.24 (continued)

Sample Tag: SB-A5.2-NO156_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/15/12 04:38	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/15/12 04:38	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/15/12 04:38	PL	84-66-2	
Dimethyl phthalate	50	ug/kg	40	8270C	05/15/12 04:38	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/15/12 04:38	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/15/12 04:38	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.24 (continued)

Sample Tag: SB-A5.2-NO156_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/15/12 04:38	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 04:38	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.25
Sample Tag: SB-A5.2-DUP21
Collected Date/Time: 05/09/2012 00:01
Matrix: Soil
COC Reference: 67616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/15/12 14:37	ADB		
Mercury Digestion	Completed			7471A	05/17/12 13:30	JRH		
Metal Digestion	Completed			3050B	05/17/12 09:00	PER		

Inorganics

Total Solids	79	%	1	Std M 2540 B	05/10/12 16:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 12:29	PER	7440-36-0	
Arsenic	0.61	mg/kg	0.10	6020	05/17/12 12:29	PER	7440-38-2	
Barium	12.2	mg/kg	1.0	6020	05/17/12 12:29	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 12:29	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 12:29	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	05/17/12 12:29	PER	7440-43-9	
Chromium	1.44	mg/kg	0.20	6020	05/17/12 12:29	PER	7440-47-3	
Cobalt	85.0	mg/kg	0.20	6020	05/17/12 12:29	PER	7440-48-4	
Copper	4.52	mg/kg	0.20	6020	05/17/12 12:29	PER	7440-50-8	
Lead	3.88	mg/kg	0.20	6020	05/17/12 12:29	PER	7439-92-1	
Manganese	127	mg/kg	0.20	6020	05/17/12 12:29	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0063	7471A	05/17/12 16:45	JRT	7439-97-6	
Nickel	3.69	mg/kg	0.20	6020	05/17/12 12:29	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 12:29	PER	7782-49-2	
Silver	8.64	mg/kg	0.10	6020	05/17/12 12:29	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 12:29	PER	7440-28-0	
Vanadium	1.43	mg/kg	0.20	6020	05/17/12 12:29	PER	7440-62-2	
Zinc	9.48	mg/kg	1.0	6020	05/17/12 12:29	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 17:58	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 17:58	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 17:58	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 17:58	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 17:58	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 17:58	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 17:58	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	300	ug/kg	100	8270C	05/13/12 22:28	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	208-96-8	
Acetophenone	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.25 (continued)

Sample Tag: SB-A5.2-DUP21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	400	ug/kg	100	8270C	05/13/12 22:28	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	300	8270C	05/13/12 22:28	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	100-52-7	
Benzo(a)anthracene	900	ug/kg	100	8270C	05/13/12 22:28	PL	56-55-3	
Benzo(a)pyrene	800	ug/kg	100	8270C	05/13/12 22:28	PL	50-32-8	
Benzo(b)fluoranthene	1,500	ug/kg	100	8270C	05/13/12 22:28	PL	205-99-2	p
Benzo(ghi)perylene	300	ug/kg	100	8270C	05/13/12 22:28	PL	191-24-2	
Benzo(k)fluoranthene	1,600	ug/kg	100	8270C	05/13/12 22:28	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	105-60-2	
Carbazole	500	ug/kg	100	8270C	05/13/12 22:28	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	108-60-1	
Chrysene	1,000	ug/kg	100	8270C	05/13/12 22:28	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	8270C	05/13/12 22:28	PL	53-70-3	
Dibenzofuran	200	ug/kg	100	8270C	05/13/12 22:28	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	300	8270C	05/13/12 22:28	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	300	8270C	05/13/12 22:28	PL	117-81-7	
Fluoranthene	2,300	ug/kg	100	8270C	05/13/12 22:28	PL	206-44-0	
Fluorene	400	ug/kg	100	8270C	05/13/12 22:28	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	300	ug/kg	100	8270C	05/13/12 22:28	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	78-59-1	
2-Methylnaphthalene	200	ug/kg	100	8270C	05/13/12 22:28	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	300	8270C	05/13/12 22:28	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	88-75-5	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.25 (continued)

Sample Tag: SB-A5.2-DUP21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	86-30-6	
Naphthalene	500	ug/kg	100	8270C	05/13/12 22:28	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	300	8270C	05/13/12 22:28	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	87-86-5	
Phenanthrene	1,800	ug/kg	100	8270C	05/13/12 22:28	PL	85-01-8	
Phenol	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	108-95-2	
Pyrene	1,800	ug/kg	100	8270C	05/13/12 22:28	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	100	8270C	05/13/12 22:28	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.26
Sample Tag: SB-A5.2-NO156_6-10
Collected Date/Time: 05/09/2012 16:25
Matrix: Groundwater
COC Reference: 67613

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.1	IR
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/14/12 22:46	EMR		
Extraction, PCB	Completed			3510C	05/16/12 12:15	ADB		
Mercury Digestion	Completed			7471A	05/11/12 10:00	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:37	SLS	7440-36-0	
Arsenic, Dissolved	0.003	mg/L	0.002	6020	05/21/12 18:37	SLS	7440-38-2	
Barium, Dissolved	0.026	mg/L	0.010	6020	05/21/12 18:37	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 18:37	SLS	7440-41-7	
Boron, Dissolved	0.11	mg/L	0.04	6020	05/21/12 18:37	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 18:37	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:37	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:37	SLS	7440-48-4	
Copper, Dissolved	0.003	mg/L	0.002	6020	05/21/12 18:37	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:37	SLS	7439-92-1	
Manganese, Dissolved	0.072	mg/L	0.010	6020	05/21/12 18:37	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/11/12 15:21	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:37	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:37	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 18:37	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:37	SLS	7440-28-0	
Vanadium, Dissolved	0.002	mg/L	0.002	6020	05/21/12 18:37	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:37	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/16/12 13:23	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.1	8082A	05/16/12 13:23	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.1	8082A	05/16/12 13:23	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	8082A	05/16/12 13:23	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	8082A	05/16/12 13:23	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	8082A	05/16/12 13:23	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/16/12 13:23	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.06	8270C	05/15/12 19:15	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.06	8270C	05/15/12 19:15	PL	118-74-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.26 (continued)

Sample Tag: SB-A5.2-NO156_6-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/15/12 16:30	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	120-83-2	
2,4-Dimethylphenol	20	ug/L	1	8270C	05/15/12 16:30	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/15/12 16:30	PL	84-66-2	
Dimethyl phthalate	8	ug/L	2	8270C	05/15/12 16:30	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	4	ug/L	2	8270C	05/15/12 16:30	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	95-48-7	
3-, 4-Methylphenol	1	ug/L	1	8270C	05/15/12 16:30	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	88-75-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.26 (continued)

Sample Tag: SB-A5.2-NO156_6-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	86-30-6	
Naphthalene	6	ug/L	1	8270C	05/15/12 16:30	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	85-01-8	
Phenol	3	ug/L	1	8270C	05/15/12 16:30	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 16:30	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	05/30/12 16:37	WAT	123-91-1	1F

1-Run outside of hold time per client request. F-Analysis run outside of holding time



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.27

Sample Tag: SB-A5.2-NO156_15-16

Collected Date/Time: 05/09/2012 17:05

Matrix: Soil

COC Reference: 67613

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 13:23	CCM		
Extraction, PCB	Completed			3550B	05/15/12 14:37	ADB		
Mercury Digestion	Completed			7471A	05/17/12 13:30	JRH		
Metal Digestion	Completed			3050B	05/16/12 09:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	05/15/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/16/12 14:52	PER	7440-36-0	
Arsenic	2.52	mg/kg	0.10	6020	05/16/12 14:52	PER	7440-38-2	
Barium	19.6	mg/kg	1.0	6020	05/16/12 14:52	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/16/12 14:52	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/16/12 14:52	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/16/12 14:52	PER	7440-43-9	
Chromium	2.12	mg/kg	0.20	6020	05/16/12 14:52	PER	7440-47-3	
Cobalt	1.84	mg/kg	0.20	6020	05/16/12 14:52	PER	7440-48-4	
Copper	5.36	mg/kg	0.20	6020	05/16/12 14:52	PER	7440-50-8	
Lead	3.25	mg/kg	0.20	6020	05/16/12 14:52	PER	7439-92-1	
Manganese	197	mg/kg	0.20	6020	05/16/12 14:52	PER	7439-96-5	
Mercury	0.0110	mg/kg	0.0055	7471A	05/17/12 16:49	JRT	7439-97-6	
Nickel	6.58	mg/kg	0.20	6020	05/16/12 14:52	PER	7440-02-0	
Selenium	0.25	mg/kg	0.20	6020	05/16/12 14:52	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/16/12 14:52	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/16/12 14:52	PER	7440-28-0	
Vanadium	3.24	mg/kg	0.20	6020	05/16/12 14:52	PER	7440-62-2	
Zinc	8.64	mg/kg	1.0	6020	05/16/12 14:52	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 14:58	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 14:58	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 14:58	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 14:58	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 14:58	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 14:58	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 14:58	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.27 (continued)

Sample Tag: SB-A5.2-NO156_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 15:03	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/17/12 15:03	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 15:03	PL	84-66-2	
Dimethyl phthalate	90	ug/kg	40	8270C	05/17/12 15:03	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/17/12 15:03	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/17/12 15:03	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.27 (continued)

Sample Tag: SB-A5.2-NO156_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 15:03	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 15:03	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.28
Sample Tag: SB-A5.2-NO156_15-16 MS
Collected Date/Time: 05/09/2012 17:05
Matrix: Soil
COC Reference: 67613

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 13:23	CCM		
Extraction, PCB	Completed			3550B	05/15/12 14:37	ADB		
Mercury Digestion	Completed			7471A	05/17/12 13:30	JRH		
Metal Digestion	Completed			3050B	05/16/12 09:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/15/12 15:00	RGS		
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Metals

Antimony	20.7	mg/kg	0.20	6020	05/16/12 14:57	PER	7440-36-0	
Arsenic	23.2	mg/kg	0.10	6020	05/16/12 14:57	PER	7440-38-2	
Barium	43.1	mg/kg	1.0	6020	05/16/12 14:57	PER	7440-39-3	
Beryllium	18.9	mg/kg	0.20	6020	05/16/12 14:57	PER	7440-41-7	
Boron	19.4	mg/kg	4.0	6020	05/16/12 14:57	PER	7440-42-8	
Cadmium	20.5	mg/kg	0.10	6020	05/16/12 14:57	PER	7440-43-9	
Chromium	23.2	mg/kg	0.20	6020	05/16/12 14:57	PER	7440-47-3	
Cobalt	22.9	mg/kg	0.20	6020	05/16/12 14:57	PER	7440-48-4	
Copper	24.9	mg/kg	0.20	6020	05/16/12 14:57	PER	7440-50-8	
Lead	22.9	mg/kg	0.20	6020	05/16/12 14:57	PER	7439-92-1	
Manganese	221	mg/kg	0.20	6020	05/16/12 14:57	PER	7439-96-5	
Mercury	0.1143	mg/kg	0.0055	7471A	05/17/12 16:51	JRT	7439-97-6	
Nickel	26.5	mg/kg	0.20	6020	05/16/12 14:57	PER	7440-02-0	
Selenium	21.6	mg/kg	0.20	6020	05/16/12 14:57	PER	7782-49-2	
Silver	19.4	mg/kg	0.10	6020	05/16/12 14:57	PER	7440-22-4	
Thallium	18.5	mg/kg	0.20	6020	05/16/12 14:57	PER	7440-28-0	
Vanadium	24.9	mg/kg	0.20	6020	05/16/12 14:57	PER	7440-62-2	
Zinc	29.8	mg/kg	1.0	6020	05/16/12 14:57	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	30	ug/kg	3	8082A	05/15/12 15:09	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 15:09	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 15:09	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 15:09	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 15:09	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 15:09	JANB	11097-69-1	
PCB-1260	30	ug/kg	3	8082A	05/15/12 15:09	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	1,900	ug/kg	40	8270C	05/17/12 15:32	PL	83-32-9	1
Acenaphthylene	1,830	ug/kg	40	8270C	05/17/12 15:32	PL	208-96-8	1

1-Sample spiked at 1.83 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.28 (continued)

Sample Tag: SB-A5.2-NO156_15-16 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	1,970	ug/kg	40	8270C	05/17/12 15:32	PL	98-86-2	1
Anthracene	1,830	ug/kg	40	8270C	05/17/12 15:32	PL	120-12-7	1
Atrazine	1,910	ug/kg	40	8270C	05/17/12 15:32	PL	1912-24-9	1
1,1'-Biphenyl	2,000	ug/kg	40	8270C	05/17/12 15:32	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,910	ug/kg	40	8270C	05/17/12 15:32	PL	101-55-3	1
di-n-Butyl phthalate	1,850	ug/kg	70	8270C	05/17/12 15:32	PL	84-74-2	1
Benzaldehyde	1,460	ug/kg	40	8270C	05/17/12 15:32	PL	100-52-7	1
Benzo(a)anthracene	1,960	ug/kg	40	8270C	05/17/12 15:32	PL	56-55-3	1
Benzo(a)pyrene	1,650	ug/kg	40	8270C	05/17/12 15:32	PL	50-32-8	1
Benzo(b)fluoranthene	1,850	ug/kg	40	8270C	05/17/12 15:32	PL	205-99-2	1
Benzo(ghi)perylene	1,720	ug/kg	40	8270C	05/17/12 15:32	PL	191-24-2	1
Benzo(k)fluoranthene	1,880	ug/kg	40	8270C	05/17/12 15:32	PL	207-08-9	1
Butyl benzyl phthalate	1,980	ug/kg	40	8270C	05/17/12 15:32	PL	85-68-7	1
2-Chloronaphthalene	1,900	ug/kg	40	8270C	05/17/12 15:32	PL	91-58-7	1
2-Chlorophenol	1,760	ug/kg	40	8270C	05/17/12 15:32	PL	95-57-8	1
4-Chloro-3-methylphenol	2,070	ug/kg	40	8270C	05/17/12 15:32	PL	59-50-7	1
4-Chloroaniline	1,760	ug/kg	40	8270C	05/17/12 15:32	PL	106-47-8	1
4-Chlorophenyl phenyl ether	2,040	ug/kg	40	8270C	05/17/12 15:32	PL	7005-72-3	1
Caprolactam	2,270	ug/kg	40	8270C	05/17/12 15:32	PL	105-60-2	1
Carbazole	1,960	ug/kg	40	8270C	05/17/12 15:32	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,720	ug/kg	40	8270C	05/17/12 15:32	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,610	ug/kg	40	8270C	05/17/12 15:32	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,570	ug/kg	40	8270C	05/17/12 15:32	PL	108-60-1	1
Chrysene	1,970	ug/kg	40	8270C	05/17/12 15:32	PL	218-01-9	1
2,4-Dichlorophenol	1,980	ug/kg	40	8270C	05/17/12 15:32	PL	120-83-2	1
2,4-Dimethylphenol	1,950	ug/kg	40	8270C	05/17/12 15:32	PL	105-67-9	1
2,4-Dinitrophenol	1,310	ug/kg	40	8270C	05/17/12 15:32	PL	51-28-5	1
2,4-Dinitrotoluene	1,930	ug/kg	40	8270C	05/17/12 15:32	PL	121-14-2	1
2,6-Dinitrotoluene	2,260	ug/kg	40	8270C	05/17/12 15:32	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,950	ug/kg	40	8270C	05/17/12 15:32	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,560	ug/kg	40	8270C	05/17/12 15:32	PL	534-52-1	1
Dibenzo(ah)anthracene	1,700	ug/kg	70	8270C	05/17/12 15:32	PL	53-70-3	1
Dibenzofuran	1,940	ug/kg	40	8270C	05/17/12 15:32	PL	132-64-9	1
Diethyl phthalate	1,970	ug/kg	70	8270C	05/17/12 15:32	PL	84-66-2	1
Dimethyl phthalate	2,040	ug/kg	40	8270C	05/17/12 15:32	PL	131-11-3	1B
bis(2-Ethylhexyl)phthalate	2,040	ug/kg	70	8270C	05/17/12 15:32	PL	117-81-7	1
Fluoranthene	1,990	ug/kg	40	8270C	05/17/12 15:32	PL	206-44-0	1
Fluorene	2,020	ug/kg	40	8270C	05/17/12 15:32	PL	86-73-7	1
Hexachlorobenzene	1,940	ug/kg	40	8270C	05/17/12 15:32	PL	118-74-1	1
Hexachlorobutadiene	1,650	ug/kg	40	8270C	05/17/12 15:32	PL	87-68-3	1
Hexachlorocyclopentadiene	1,240	ug/kg	40	8270C	05/17/12 15:32	PL	77-47-4	1
Hexachloroethane	1,510	ug/kg	40	8270C	05/17/12 15:32	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,720	ug/kg	40	8270C	05/17/12 15:32	PL	193-39-5	1
Isophorone	1,750	ug/kg	40	8270C	05/17/12 15:32	PL	78-59-1	1
2-Methylnaphthalene	1,800	ug/kg	40	8270C	05/17/12 15:32	PL	91-57-6	1
2-Methylphenol	1,890	ug/kg	40	8270C	05/17/12 15:32	PL	95-48-7	1
3-, 4-Methylphenol	4,020	ug/kg	70	8270C	05/17/12 15:32	PL	3/4-Cresol	1

1-Sample spiked at 1.83 mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.28 (continued)
Sample Tag: SB-A5.2-NO156_15-16 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	1,910	ug/kg	40	8270C	05/17/12 15:32	PL	88-74-4	1
2-Nitrophenol	1,840	ug/kg	40	8270C	05/17/12 15:32	PL	88-75-5	1
3-Nitroaniline	1,840	ug/kg	40	8270C	05/17/12 15:32	PL	99-09-2	1
4-Nitroaniline	2,080	ug/kg	40	8270C	05/17/12 15:32	PL	100-01-6	1
4-Nitrophenol	1,880	ug/kg	40	8270C	05/17/12 15:32	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,760	ug/kg	40	8270C	05/17/12 15:32	PL	621-64-7	1
N-Nitrosodiphenylamine	1,630	ug/kg	40	8270C	05/17/12 15:32	PL	86-30-6	1
Naphthalene	1,580	ug/kg	40	8270C	05/17/12 15:32	PL	91-20-3	1
Nitrobenzene	1,680	ug/kg	40	8270C	05/17/12 15:32	PL	98-95-3	1
di-n-Octyl phthalate	2,100	ug/kg	70	8270C	05/17/12 15:32	PL	117-84-0	1
Pentachlorophenol	1,630	ug/kg	40	8270C	05/17/12 15:32	PL	87-86-5	1
Phenanthrene	1,840	ug/kg	40	8270C	05/17/12 15:32	PL	85-01-8	1
Phenol	2,000	ug/kg	40	8270C	05/17/12 15:32	PL	108-95-2	1
Pyrene	1,940	ug/kg	40	8270C	05/17/12 15:32	PL	129-00-0	1
2,4,5-Trichlorophenol	2,100	ug/kg	40	8270C	05/17/12 15:32	PL	95-95-4	1
2,4,6-Trichlorophenol	1,990	ug/kg	40	8270C	05/17/12 15:32	PL	88-06-2	1

1-Sample spiked at 1.83 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.29

Sample Tag: SB-A5.2-NO156_15-16 MSD

Collected Date/Time: 05/09/2012 17:05

Matrix: Soil

COC Reference: 67613

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 13:23	CCM		
Extraction, PCB	Completed			3550B	05/15/12 14:37	ADB		
Mercury Digestion	Completed			7471A	05/17/12 13:30	JRH		
Metal Digestion	Completed			3050B	05/16/12 09:00	PER		

Inorganics

Total Solids	93	%	1	Std M 2540 B	05/15/12 15:00	RGS		
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Metals

Antimony	20.9	mg/kg	0.20	6020	05/16/12 15:02	PER	7440-36-0	
Arsenic	23.5	mg/kg	0.10	6020	05/16/12 15:02	PER	7440-38-2	
Barium	43.6	mg/kg	1.0	6020	05/16/12 15:02	PER	7440-39-3	
Beryllium	19.5	mg/kg	0.20	6020	05/16/12 15:02	PER	7440-41-7	
Boron	20.3	mg/kg	4.0	6020	05/16/12 15:02	PER	7440-42-8	
Cadmium	21.0	mg/kg	0.10	6020	05/16/12 15:02	PER	7440-43-9	
Chromium	23.5	mg/kg	0.20	6020	05/16/12 15:02	PER	7440-47-3	
Cobalt	23.3	mg/kg	0.20	6020	05/16/12 15:02	PER	7440-48-4	
Copper	25.2	mg/kg	0.20	6020	05/16/12 15:02	PER	7440-50-8	
Lead	22.6	mg/kg	0.20	6020	05/16/12 15:02	PER	7439-92-1	
Manganese	221	mg/kg	0.20	6020	05/16/12 15:02	PER	7439-96-5	
Mercury	0.1133	mg/kg	0.0054	7471A	05/17/12 16:54	JRT	7439-97-6	
Nickel	26.8	mg/kg	0.20	6020	05/16/12 15:02	PER	7440-02-0	
Selenium	21.5	mg/kg	0.20	6020	05/16/12 15:02	PER	7782-49-2	
Silver	19.9	mg/kg	0.10	6020	05/16/12 15:02	PER	7440-22-4	
Thallium	18.3	mg/kg	0.20	6020	05/16/12 15:02	PER	7440-28-0	
Vanadium	25.5	mg/kg	0.20	6020	05/16/12 15:02	PER	7440-62-2	
Zinc	30.0	mg/kg	1.0	6020	05/16/12 15:02	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	20	ug/kg	3	8082A	05/15/12 15:20	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 15:20	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 15:20	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 15:20	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 15:20	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 15:20	JANB	11097-69-1	
PCB-1260	30	ug/kg	3	8082A	05/15/12 15:20	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,900	ug/kg	40	8270C	05/17/12 16:01	PL	83-32-9	1
Acenaphthylene	1,810	ug/kg	40	8270C	05/17/12 16:01	PL	208-96-8	1

1-Sample spiked at 1.79 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.29 (continued)

Sample Tag: SB-A5.2-NO156_15-16 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	1,970	ug/kg	40	8270C	05/17/12 16:01	PL	98-86-2	1
Anthracene	1,840	ug/kg	40	8270C	05/17/12 16:01	PL	120-12-7	1
Atrazine	1,930	ug/kg	40	8270C	05/17/12 16:01	PL	1912-24-9	1
1,1'-Biphenyl	1,990	ug/kg	40	8270C	05/17/12 16:01	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,910	ug/kg	40	8270C	05/17/12 16:01	PL	101-55-3	1
di-n-Butyl phthalate	1,860	ug/kg	70	8270C	05/17/12 16:01	PL	84-74-2	1
Benzaldehyde	1,490	ug/kg	40	8270C	05/17/12 16:01	PL	100-52-7	1
Benzo(a)anthracene	1,980	ug/kg	40	8270C	05/17/12 16:01	PL	56-55-3	1
Benzo(a)pyrene	1,660	ug/kg	40	8270C	05/17/12 16:01	PL	50-32-8	1
Benzo(b)fluoranthene	1,850	ug/kg	40	8270C	05/17/12 16:01	PL	205-99-2	1
Benzo(ghi)perylene	1,700	ug/kg	40	8270C	05/17/12 16:01	PL	191-24-2	1
Benzo(k)fluoranthene	1,910	ug/kg	40	8270C	05/17/12 16:01	PL	207-08-9	1
Butyl benzyl phthalate	2,010	ug/kg	40	8270C	05/17/12 16:01	PL	85-68-7	1
2-Chloronaphthalene	1,910	ug/kg	40	8270C	05/17/12 16:01	PL	91-58-7	1
2-Chlorophenol	1,770	ug/kg	40	8270C	05/17/12 16:01	PL	95-57-8	1
4-Chloro-3-methylphenol	2,090	ug/kg	40	8270C	05/17/12 16:01	PL	59-50-7	1
4-Chloroaniline	1,750	ug/kg	40	8270C	05/17/12 16:01	PL	106-47-8	1
4-Chlorophenyl phenyl ether	2,040	ug/kg	40	8270C	05/17/12 16:01	PL	7005-72-3	1
Caprolactam	2,280	ug/kg	40	8270C	05/17/12 16:01	PL	105-60-2	1
Carbazole	1,980	ug/kg	40	8270C	05/17/12 16:01	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,720	ug/kg	40	8270C	05/17/12 16:01	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,650	ug/kg	40	8270C	05/17/12 16:01	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,580	ug/kg	40	8270C	05/17/12 16:01	PL	108-60-1	1
Chrysene	1,980	ug/kg	40	8270C	05/17/12 16:01	PL	218-01-9	1
2,4-Dichlorophenol	1,980	ug/kg	40	8270C	05/17/12 16:01	PL	120-83-2	1
2,4-Dimethylphenol	1,960	ug/kg	40	8270C	05/17/12 16:01	PL	105-67-9	1
2,4-Dinitrophenol	1,270	ug/kg	40	8270C	05/17/12 16:01	PL	51-28-5	1
2,4-Dinitrotoluene	1,930	ug/kg	40	8270C	05/17/12 16:01	PL	121-14-2	1
2,6-Dinitrotoluene	2,280	ug/kg	40	8270C	05/17/12 16:01	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,980	ug/kg	40	8270C	05/17/12 16:01	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,540	ug/kg	40	8270C	05/17/12 16:01	PL	534-52-1	1
Dibenzo(ah)anthracene	1,770	ug/kg	70	8270C	05/17/12 16:01	PL	53-70-3	1
Dibenzofuran	1,940	ug/kg	40	8270C	05/17/12 16:01	PL	132-64-9	1
Diethyl phthalate	1,970	ug/kg	70	8270C	05/17/12 16:01	PL	84-66-2	1
Dimethyl phthalate	2,080	ug/kg	40	8270C	05/17/12 16:01	PL	131-11-3	1B
bis(2-Ethylhexyl)phthalate	2,050	ug/kg	70	8270C	05/17/12 16:01	PL	117-81-7	1
Fluoranthene	2,020	ug/kg	40	8270C	05/17/12 16:01	PL	206-44-0	1
Fluorene	2,010	ug/kg	40	8270C	05/17/12 16:01	PL	86-73-7	1
Hexachlorobenzene	1,940	ug/kg	40	8270C	05/17/12 16:01	PL	118-74-1	1
Hexachlorobutadiene	1,680	ug/kg	40	8270C	05/17/12 16:01	PL	87-68-3	1
Hexachlorocyclopentadiene	1,190	ug/kg	40	8270C	05/17/12 16:01	PL	77-47-4	1
Hexachloroethane	1,530	ug/kg	40	8270C	05/17/12 16:01	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,700	ug/kg	40	8270C	05/17/12 16:01	PL	193-39-5	1
Isophorone	1,760	ug/kg	40	8270C	05/17/12 16:01	PL	78-59-1	1
2-Methylnaphthalene	1,790	ug/kg	40	8270C	05/17/12 16:01	PL	91-57-6	1
2-Methylphenol	1,880	ug/kg	40	8270C	05/17/12 16:01	PL	95-48-7	1
3-, 4-Methylphenol	3,970	ug/kg	70	8270C	05/17/12 16:01	PL	3/4-Cresol	1

1-Sample spiked at 1.79 mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.29 (continued)
Sample Tag: SB-A5.2-NO156_15-16 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	1,920	ug/kg	40	8270C	05/17/12 16:01	PL	88-74-4	1
2-Nitrophenol	1,840	ug/kg	40	8270C	05/17/12 16:01	PL	88-75-5	1
3-Nitroaniline	1,810	ug/kg	40	8270C	05/17/12 16:01	PL	99-09-2	1
4-Nitroaniline	2,100	ug/kg	40	8270C	05/17/12 16:01	PL	100-01-6	1
4-Nitrophenol	1,920	ug/kg	40	8270C	05/17/12 16:01	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,730	ug/kg	40	8270C	05/17/12 16:01	PL	621-64-7	1
N-Nitrosodiphenylamine	1,650	ug/kg	40	8270C	05/17/12 16:01	PL	86-30-6	1
Naphthalene	1,590	ug/kg	40	8270C	05/17/12 16:01	PL	91-20-3	1
Nitrobenzene	1,700	ug/kg	40	8270C	05/17/12 16:01	PL	98-95-3	1
di-n-Octyl phthalate	2,110	ug/kg	70	8270C	05/17/12 16:01	PL	117-84-0	1
Pentachlorophenol	1,670	ug/kg	40	8270C	05/17/12 16:01	PL	87-86-5	1
Phenanthrene	1,860	ug/kg	40	8270C	05/17/12 16:01	PL	85-01-8	1
Phenol	2,000	ug/kg	40	8270C	05/17/12 16:01	PL	108-95-2	1
Pyrene	1,950	ug/kg	40	8270C	05/17/12 16:01	PL	129-00-0	1
2,4,5-Trichlorophenol	2,110	ug/kg	40	8270C	05/17/12 16:01	PL	95-95-4	1
2,4,6-Trichlorophenol	1,990	ug/kg	40	8270C	05/17/12 16:01	PL	88-06-2	1

1-Sample spiked at 1.79 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.30
Sample Tag: SB-A5.2-NO156_21-22
Collected Date/Time: 05/09/2012 17:20
Matrix: Soil
COC Reference: 67613

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 13:23	CCM		
Extraction, PCB	Completed			3550B	05/15/12 14:37	ADB		
Mercury Digestion	Completed			7471A	05/17/12 13:30	JRH		
Metal Digestion	Completed			3050B	05/17/12 09:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	05/15/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 12:31	PER	7440-36-0	
Arsenic	5.12	mg/kg	0.10	6020	05/17/12 12:31	PER	7440-38-2	
Barium	20.9	mg/kg	1.0	6020	05/17/12 12:31	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 12:31	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 12:31	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 12:31	PER	7440-43-9	
Chromium	2.12	mg/kg	0.20	6020	05/17/12 12:31	PER	7440-47-3	
Cobalt	2.36	mg/kg	0.20	6020	05/17/12 12:31	PER	7440-48-4	
Copper	8.11	mg/kg	0.20	6020	05/17/12 12:31	PER	7440-50-8	
Lead	4.14	mg/kg	0.20	6020	05/17/12 12:31	PER	7439-92-1	
Manganese	205	mg/kg	0.20	6020	05/17/12 12:31	PER	7439-96-5	
Mercury	0.0074	mg/kg	0.0054	7471A	05/17/12 16:47	JRT	7439-97-6	
Nickel	7.10	mg/kg	0.20	6020	05/17/12 12:31	PER	7440-02-0	
Selenium	0.22	mg/kg	0.20	6020	05/17/12 12:31	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 12:31	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 12:31	PER	7440-28-0	
Vanadium	3.88	mg/kg	0.20	6020	05/17/12 12:31	PER	7440-62-2	
Zinc	10.6	mg/kg	1.0	6020	05/17/12 12:31	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 18:40	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 18:40	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 18:40	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 18:40	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 18:40	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 18:40	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 18:40	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.30 (continued)

Sample Tag: SB-A5.2-NO156_21-22

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 16:30	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/17/12 16:30	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 16:30	PL	84-66-2	
Dimethyl phthalate	160	ug/kg	40	8270C	05/17/12 16:30	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/17/12 16:30	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/17/12 16:30	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52462.30 (continued)

Sample Tag: SB-A5.2-NO156_21-22

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 16:30	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 16:30	PL	88-06-2	



2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 3

67614

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Randy Christensen			
COMPANY ARCADIS			
ADDRESS 10559 Citation Drive Suite 100			
CITY Brighton	STATE MI	ZIP CODE 48116	
PHONE NO. 810-225-1910	FAX NO.	P.O. NO. PO125047	
E-MAIL ADDRESS randy.christensen@arcadis-us.com		QUOTE NO. Task# 5	

CONTACT NAME Dave Favero		☐ SAME
COMPANY RACER TRUST		
ADDRESS 2930 Ecorse Road		
CITY Ypsilanti	STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208	E-MAIL ADDRESS dfavero@racertrust.org	

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Lansing Plant 2 Project# 80064479.2012	SAMPLER(S) - PLEASE PRINT/SIGN NAME Meryl Hicks / Austin Westlund
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER	
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER	

MATRIX CODE:	GW=GROUNDWATER SL=SLUDGE	WW=WASTEWATER DW=DRINKING WATER	S=SOIL O=OIL	L=LIQUID WP=WIFE	SD=SOLID A=AIR	W=WASTE
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Containers & Preservatives

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER
	DATE	TIME										
52462.01	5/9/12	0900	VAP-A5.5-NP194-16-17	S	1	1						
.02	5/9/12	0935	VAP-A5.5-NP194-14-15	GW	5	2	2	1				
.03	5/9/12	1030	VAP-A5.5-NP194-20-21	S	1	1						
.04	5/9/12	1120	VAP-A5.5-NP194-27-28	S	1	1						
.05	5/9/12	1215	VAP-A5.5-NP194-25-26	GW	5	2	2	1				
.06	5/9/12	1315	VAP-A5.5-NP194-31-32	S	1	1						
.07	5/9/12	—	VAP-A5.5-Dup 20	S	1	1						
.08	5/9/12	1335	VAP-A5.5-NP194-36-37	S	1	1						
.09	5/9/12	1400	VAP-A5.5-NP194-41-42	S	1	1						
.10	5/9/12	1410	VAP-A5.5-NP194-46-47	S	1	1						
.11	5/9/12	1500	VAP-A5.5-NP194-52-53	S	1	1						
.12	5/9/12	1540	VAP-A5.5-NP194-56-57	S	1	1						
.13	5/9/12	1630	VAP-A5.5-NP194-62-63	S	1	1						

VOCs - 1,4-dioxane

SVOCs

PCBs

Metals (w/Hg)

Certifications	
☐ OHIO VAP	☐ Drinking Water
☐ DoD	☐ NPDES
Project Locations	
☐ Detroit	☐ New York
☐ Other	
Special Instructions	

RELINQUISHED BY: SIGNATURE/ORGANIZATION ARCADIS	DATE 5/10/12	TIME 9:30
RELINQUISHED BY: SIGNATURE/ORGANIZATION ARCADIS	DATE 5/10/12	TIME 9:30
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION ARCADIS	DATE 5-10-12	TIME 1000
RELINQUISHED BY: SIGNATURE/ORGANIZATION ARCADIS	DATE 5-10-12	TIME 1000
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
NOTES:		TEMP. ON ARRIVAL 4.1



67616

INVOICE TO

CONTACT NAME		Dave Favero		☐ SAME	
COMPANY		RACER TRUST			
ADDRESS		2930 Ecorse Road			
CITY		Ypsilanti		STATE	MI
				ZIP CODE	48198
PHONE NO.		E-MAIL ADDRESS			
313-486-9208		dfavero@racertrust.org			

Certifications

☐ OHIO VAP ☐ Drinking Water

☐ DoD ☐ NPDES

Project Locations

☐ Detroit ☐ New York

☐ Other _____

Special Instructions

Containers & Preservatives

1 Cell Bt								Certifications			
# Containers & Preservatives								☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES			
NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	VOCs	SVOCs	PCBs	Metals (wtHg)	Project Locations
X											☐ Detroit ☐ New York
X	X	X					X	X	X		☐ Other _____
X								X	X	X	Special Instructions
X								X	X	X	HOLD VOCs for 1,4-Diox SVOCs, PCBs, Metals Field Filter
X								X	X	X	
X								X	X	X	
X								X	X	X	
X								X	X	X	
X	X	X					X	X	X	X	HOLD VOCs for 1,4-Diox SVOCs, PCBs, Metals Field Filter
X								X	X	X	
X								X	X	X	
X								X	X	X	
X								X	X	X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>[Signature]</i>			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>[Signature]</i>			DATE 5-10-12	TIME 1000
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL <u>4.1</u>	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		

Rev. 1.15.12



Analytical Laboratory Report

Report ID: S52485.01(01)
Generated on 05/22/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52485.01-S52485.31
Project: Lansing Plant #2 Project# B0064479.2012
Collected Date: 05/10/2012
Submitted Date/Time: 05/11/2012 09:00
Sampled by: Meryl Hicks
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (31 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52485.01	VAP-A5.3-OV159_4-5	Groundwater	05/10/2012 08:50
S52485.02	VAP-A5.3-OV159_7-8	Soil	05/10/2012 09:40
S52485.03	VAP-A5.3-OV159_12-13	Soil	05/10/2012 10:20
S52485.04	VAP-A5.3-OV159_17-18	Soil	05/10/2012 10:40
S52485.05	VAP-A5.3-OV159_22-23	Soil	05/10/2012 10:55
S52485.06	VAP-A5.3-OV159_26-27	Soil	05/10/2012 11:10
S52485.07	VAP-A5.3-OV159_31-32	Soil	05/10/2012 12:10
S52485.08	VAP-A5.3-OV159_36-37	Soil	05/10/2012 13:00
S52485.09	VAP-A5.3-OV159_41-42	Soil	05/10/2012 13:50
S52485.10	VAP-A5.3-OV159_46-47	Soil	05/10/2012 14:20
S52485.11	VAP-A5.1-MT115_4-5	Soil	05/10/2012 16:45
S52485.12	VAP-A5.3-Dup23	Soil	05/10/2012 00:01
S52485.13	SB-A5.2-OH162_1-2	Soil	05/10/2012 08:27
S52485.14	SB-A5.2-OH162_7-8	Soil	05/10/2012 09:42
S52485.15	SB-A5.2-OH162_13-14	Soil	05/10/2012 09:53
S52485.16	SB-A5.2-OH162_24-25	Soil	05/10/2012 10:13
S52485.17	SB-A5.2-OH162_17-21	Groundwater	05/10/2012 10:42
S52485.18	SB-A5.2-OG138_1-2	Soil	05/10/2012 11:25
S52485.19	SB-A5.2-OG138_6-7	Soil	05/10/2012 12:07
S52485.20	SB-A5.2-OG138_12-13	Soil	05/10/2012 12:15
S52485.21	SB-A5.2-OG138_18-19	Soil	05/10/2012 12:30
S52485.22	SB-A5.2-OA138_1-2	Soil	05/10/2012 13:30
S52485.23	SB-A5.2-OA138_7-8	Soil	05/10/2012 13:56
S52485.24	SB-A5.2-Dup22	Soil	05/10/2012 00:01
S52485.25	SB-A5.2-OA138_11-12	Soil	05/10/2012 14:52
S52485.26	SB-A5.2-OA138_17-18	Soil	05/10/2012 15:10
S52485.27	SB-A5.2-OA138_23-24	Soil	05/10/2012 15:23
S52485.28	SB-A5.2-OA138_23-24 MS	Soil	05/10/2012 15:23
S52485.29	SB-A5.2-OA138_23-24 MSD	Soil	05/10/2012 15:23
S52485.30	Trip Blank	Water	05/10/2012 00:01
S52485.31	SB-A5.2-Dup24	Soil	05/10/2012 00:01



Analytical Laboratory Report

Lab Sample ID: S52485.01
Sample Tag: VAP-A5.3-OV159_4-5
Collected Date/Time: 05/10/2012 08:50
Matrix: Groundwater
COC Reference: 67615

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	3.9	IR
2	40ml Glass	HCL	Yes	3.9	IR
1	125ml Plastic	HNO3	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/14/12 22:46	EMR		
Mercury Digestion	Completed			7471A	05/11/12 10:00	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:41	SLS	7440-36-0	
Arsenic, Dissolved	0.019	mg/L	0.002	6020	05/21/12 18:41	SLS	7440-38-2	
Barium, Dissolved	0.084	mg/L	0.010	6020	05/21/12 18:41	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 18:41	SLS	7440-41-7	
Boron, Dissolved	0.27	mg/L	0.04	6020	05/21/12 18:41	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 18:41	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:41	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:41	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:41	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:41	SLS	7439-92-1	
Manganese, Dissolved	0.133	mg/L	0.010	6020	05/21/12 18:41	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/11/12 14:34	JRT	7439-97-6	
Nickel, Dissolved	0.045	mg/L	0.010	6020	05/21/12 18:41	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:41	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 18:41	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:41	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:41	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:41	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/15/12 19:43	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/15/12 19:43	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	205-99-2	



Analytical Laboratory Report

Lab Sample ID: S52485.01 (continued)

Sample Tag: VAP-A5.3-OV159_4-5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/15/12 17:00	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	120-83-2	
2,4-Dimethylphenol	13	ug/L	1	8270C	05/15/12 17:00	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/15/12 17:00	PL	84-66-2	
Dimethyl phthalate	13	ug/L	2	8270C	05/15/12 17:00	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/15/12 17:00	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	91-57-6	
2-Methylphenol	2	ug/L	1	8270C	05/15/12 17:00	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	86-30-6	
Naphthalene	1	ug/L	1	8270C	05/15/12 17:00	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	129-00-0	



Analytical Laboratory Report

Lab Sample ID: S52485.01 (continued)

Sample Tag: VAP-A5.3-OV159_4-5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	3	ug/L	1	8270C	05/15/12 17:00	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 17:00	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.02
Sample Tag: VAP-A5.3-OV159_7-8
Collected Date/Time: 05/10/2012 09:40
Matrix: Soil
COC Reference: 67615

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:54	EMR		
Mercury Digestion	Completed			7471A	05/17/12 13:30	JRH		
Metal Digestion	Completed			3050B	05/17/12 09:00	PER		

Inorganics

Total Solids	84	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 12:53	PER	7440-36-0	
Arsenic	0.87	mg/kg	0.10	6020	05/17/12 12:53	PER	7440-38-2	
Barium	56.3	mg/kg	1.0	6020	05/17/12 12:53	PER	7440-39-3	
Beryllium	0.29	mg/kg	0.20	6020	05/17/12 12:53	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 12:53	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 12:53	PER	7440-43-9	
Chromium	7.82	mg/kg	0.20	6020	05/17/12 12:53	PER	7440-47-3	
Cobalt	4.14	mg/kg	0.20	6020	05/17/12 12:53	PER	7440-48-4	
Copper	11.4	mg/kg	0.20	6020	05/17/12 12:53	PER	7440-50-8	
Lead	5.67	mg/kg	0.20	6020	05/17/12 12:53	PER	7439-92-1	
Manganese	296	mg/kg	0.20	6020	05/17/12 12:53	PER	7439-96-5	
Mercury	0.0156	mg/kg	0.0059	7471A	05/17/12 16:29	JRT	7439-97-6	
Nickel	12.6	mg/kg	0.20	6020	05/17/12 12:53	PER	7440-02-0	
Selenium	0.31	mg/kg	0.20	6020	05/17/12 12:53	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 12:53	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 12:53	PER	7440-28-0	
Vanadium	10.6	mg/kg	0.20	6020	05/17/12 12:53	PER	7440-62-2	
Zinc	17.1	mg/kg	1.0	6020	05/17/12 12:53	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/15/12 05:08	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52485.02 (continued)

Sample Tag: VAP-A5.3-OV159_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/15/12 05:08	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/15/12 05:08	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	110	ug/kg	80	8270C	05/15/12 05:08	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/15/12 05:08	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/15/12 05:08	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	87-86-5	
Phenanthrene	100	ug/kg	40	8270C	05/15/12 05:08	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	129-00-0	



Analytical Laboratory Report

Lab Sample ID: S52485.02 (continued)

Sample Tag: VAP-A5.3-OV159_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 05:08	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.03
Sample Tag: VAP-A5.3-OV159_12-13
Collected Date/Time: 05/10/2012 10:20
Matrix: Soil
COC Reference: 67615

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:54	EMR		
Mercury Digestion	Completed			7471A	05/17/12 13:30	JRH		
Metal Digestion	Completed			3050B	05/17/12 09:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 12:55	PER	7440-36-0	
Arsenic	1.05	mg/kg	0.10	6020	05/17/12 12:55	PER	7440-38-2	
Barium	40.2	mg/kg	1.0	6020	05/17/12 12:55	PER	7440-39-3	
Beryllium	0.22	mg/kg	0.20	6020	05/17/12 12:55	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 12:55	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 12:55	PER	7440-43-9	
Chromium	6.17	mg/kg	0.20	6020	05/17/12 12:55	PER	7440-47-3	
Cobalt	2.75	mg/kg	0.20	6020	05/17/12 12:55	PER	7440-48-4	
Copper	9.15	mg/kg	0.20	6020	05/17/12 12:55	PER	7440-50-8	
Lead	5.12	mg/kg	0.20	6020	05/17/12 12:55	PER	7439-92-1	
Manganese	263	mg/kg	0.20	6020	05/17/12 12:55	PER	7439-96-5	
Mercury	0.0150	mg/kg	0.0058	7471A	05/17/12 16:31	JRT	7439-97-6	
Nickel	11.6	mg/kg	0.20	6020	05/17/12 12:55	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 12:55	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 12:55	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 12:55	PER	7440-28-0	
Vanadium	8.50	mg/kg	0.20	6020	05/17/12 12:55	PER	7440-62-2	
Zinc	16.4	mg/kg	1.0	6020	05/17/12 12:55	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/15/12 05:37	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52485.03 (continued)

Sample Tag: VAP-A5.3-OV159_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/15/12 05:37	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/15/12 05:37	PL	84-66-2	
Dimethyl phthalate	50	ug/kg	40	8270C	05/15/12 05:37	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/15/12 05:37	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/15/12 05:37	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/15/12 05:37	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	129-00-0	



Analytical Laboratory Report

Lab Sample ID: S52485.03 (continued)

Sample Tag: VAP-A5.3-OV159_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 05:37	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.04
Sample Tag: VAP-A5.3-OV159_17-18
Collected Date/Time: 05/10/2012 10:40
Matrix: Soil
COC Reference: 67615

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:54	EMR		
Mercury Digestion	Completed			7471A	05/17/12 13:30	JRH		
Metal Digestion	Completed			3050B	05/17/12 09:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 12:57	PER	7440-36-0	
Arsenic	1.94	mg/kg	0.10	6020	05/17/12 12:57	PER	7440-38-2	
Barium	23.6	mg/kg	1.0	6020	05/17/12 12:57	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 12:57	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 12:57	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 12:57	PER	7440-43-9	
Chromium	2.72	mg/kg	0.20	6020	05/17/12 12:57	PER	7440-47-3	
Cobalt	2.22	mg/kg	0.20	6020	05/17/12 12:57	PER	7440-48-4	
Copper	6.46	mg/kg	0.20	6020	05/17/12 12:57	PER	7440-50-8	
Lead	3.33	mg/kg	0.20	6020	05/17/12 12:57	PER	7439-92-1	
Manganese	208	mg/kg	0.20	6020	05/17/12 12:57	PER	7439-96-5	
Mercury	0.0083	mg/kg	0.0054	7471A	05/17/12 16:33	JRT	7439-97-6	
Nickel	7.42	mg/kg	0.20	6020	05/17/12 12:57	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 12:57	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 12:57	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 12:57	PER	7440-28-0	
Vanadium	4.61	mg/kg	0.20	6020	05/17/12 12:57	PER	7440-62-2	
Zinc	10.0	mg/kg	1.0	6020	05/17/12 12:57	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/15/12 06:06	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52485.04 (continued)

Sample Tag: VAP-A5.3-OV159_17-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/15/12 06:06	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/15/12 06:06	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/15/12 06:06	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/15/12 06:06	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/15/12 06:06	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	129-00-0	



Analytical Laboratory Report

Lab Sample ID: S52485.04 (continued)

Sample Tag: VAP-A5.3-OV159_17-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 06:06	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.05
Sample Tag: VAP-A5.3-OV159_22-23
Collected Date/Time: 05/10/2012 10:55
Matrix: Soil
COC Reference: 67615

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:54	EMR		
Mercury Digestion	Completed			7471A	05/17/12 13:30	JRH		
Metal Digestion	Completed			3050B	05/17/12 09:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 12:59	PER	7440-36-0	
Arsenic	1.96	mg/kg	0.10	6020	05/17/12 12:59	PER	7440-38-2	
Barium	26.4	mg/kg	1.0	6020	05/17/12 12:59	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 12:59	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 12:59	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 12:59	PER	7440-43-9	
Chromium	2.86	mg/kg	0.20	6020	05/17/12 12:59	PER	7440-47-3	
Cobalt	2.50	mg/kg	0.20	6020	05/17/12 12:59	PER	7440-48-4	
Copper	7.32	mg/kg	0.20	6020	05/17/12 12:59	PER	7440-50-8	
Lead	3.63	mg/kg	0.20	6020	05/17/12 12:59	PER	7439-92-1	
Manganese	211	mg/kg	0.20	6020	05/17/12 12:59	PER	7439-96-5	
Mercury	0.0083	mg/kg	0.0055	7471A	05/17/12 16:36	JRT	7439-97-6	
Nickel	7.78	mg/kg	0.20	6020	05/17/12 12:59	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 12:59	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 12:59	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 12:59	PER	7440-28-0	
Vanadium	4.78	mg/kg	0.20	6020	05/17/12 12:59	PER	7440-62-2	
Zinc	12.1	mg/kg	1.0	6020	05/17/12 12:59	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/15/12 06:36	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52485.05 (continued)

Sample Tag: VAP-A5.3-OV159_22-23

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/15/12 06:36	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/15/12 06:36	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/15/12 06:36	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/15/12 06:36	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/15/12 06:36	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	129-00-0	



Analytical Laboratory Report

Lab Sample ID: S52485.05 (continued)

Sample Tag: VAP-A5.3-OV159_22-23

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 06:36	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.06
Sample Tag: VAP-A5.3-OV159_26-27
Collected Date/Time: 05/10/2012 11:10
Matrix: Soil
COC Reference: 67615

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:54	EMR		
Mercury Digestion	Completed			7471A	05/17/12 13:30	JRH		
Metal Digestion	Completed			3050B	05/17/12 09:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 13:02	PER	7440-36-0	
Arsenic	2.44	mg/kg	0.10	6020	05/17/12 13:02	PER	7440-38-2	
Barium	19.0	mg/kg	1.0	6020	05/17/12 13:02	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 13:02	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 13:02	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 13:02	PER	7440-43-9	
Chromium	2.39	mg/kg	0.20	6020	05/17/12 13:02	PER	7440-47-3	
Cobalt	1.97	mg/kg	0.20	6020	05/17/12 13:02	PER	7440-48-4	
Copper	6.79	mg/kg	0.20	6020	05/17/12 13:02	PER	7440-50-8	
Lead	3.68	mg/kg	0.20	6020	05/17/12 13:02	PER	7439-92-1	
Manganese	199	mg/kg	0.20	6020	05/17/12 13:02	PER	7439-96-5	
Mercury	0.0080	mg/kg	0.0056	7471A	05/17/12 16:38	JRT	7439-97-6	
Nickel	6.39	mg/kg	0.20	6020	05/17/12 13:02	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 13:02	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 13:02	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 13:02	PER	7440-28-0	
Vanadium	3.75	mg/kg	0.20	6020	05/17/12 13:02	PER	7440-62-2	
Zinc	13.9	mg/kg	1.0	6020	05/17/12 13:02	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/15/12 07:05	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52485.06 (continued)

Sample Tag: VAP-A5.3-OV159_26-27

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/15/12 07:05	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/15/12 07:05	PL	84-66-2	
Dimethyl phthalate	40	ug/kg	40	8270C	05/15/12 07:05	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/15/12 07:05	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/15/12 07:05	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/15/12 07:05	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	129-00-0	



Analytical Laboratory Report

Lab Sample ID: S52485.06 (continued)

Sample Tag: VAP-A5.3-OV159_26-27

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 07:05	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.07
Sample Tag: VAP-A5.3-OV159_31-32
Collected Date/Time: 05/10/2012 12:10
Matrix: Soil
COC Reference: 67615

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:54	EMR		
Mercury Digestion	Completed			7471A	05/17/12 13:30	JRH		
Metal Digestion	Completed			3050B	05/17/12 09:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 13:04	PER	7440-36-0	
Arsenic	3.15	mg/kg	0.10	6020	05/17/12 13:04	PER	7440-38-2	
Barium	20.6	mg/kg	1.0	6020	05/17/12 13:04	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 13:04	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 13:04	PER	7440-42-8	
Cadmium	0.21	mg/kg	0.10	6020	05/17/12 13:04	PER	7440-43-9	
Chromium	2.56	mg/kg	0.20	6020	05/17/12 13:04	PER	7440-47-3	
Cobalt	2.69	mg/kg	0.20	6020	05/17/12 13:04	PER	7440-48-4	
Copper	7.71	mg/kg	0.20	6020	05/17/12 13:04	PER	7440-50-8	
Lead	3.95	mg/kg	0.20	6020	05/17/12 13:04	PER	7439-92-1	
Manganese	244	mg/kg	0.20	6020	05/17/12 13:04	PER	7439-96-5	
Mercury	0.0078	mg/kg	0.0054	7471A	05/17/12 16:40	JRT	7439-97-6	
Nickel	8.80	mg/kg	0.20	6020	05/17/12 13:04	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 13:04	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 13:04	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 13:04	PER	7440-28-0	
Vanadium	4.40	mg/kg	0.20	6020	05/17/12 13:04	PER	7440-62-2	
Zinc	23.1	mg/kg	1.0	6020	05/17/12 13:04	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/15/12 07:34	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52485.07 (continued)

Sample Tag: VAP-A5.3-OV159_31-32

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/15/12 07:34	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/15/12 07:34	PL	84-66-2	
Dimethyl phthalate	40	ug/kg	40	8270C	05/15/12 07:34	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/15/12 07:34	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/15/12 07:34	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/15/12 07:34	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	129-00-0	



Analytical Laboratory Report

Lab Sample ID: S52485.07 (continued)

Sample Tag: VAP-A5.3-OV159_31-32

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 07:34	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.08
Sample Tag: VAP-A5.3-OV159_36-37
Collected Date/Time: 05/10/2012 13:00
Matrix: Soil
COC Reference: 67615

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/11/12 23:54	EMR		
Mercury Digestion	Completed			7471A	05/17/12 13:30	JRH		
Metal Digestion	Completed			3050B	05/17/12 09:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 13:12	PER	7440-36-0	
Arsenic	3.41	mg/kg	0.10	6020	05/17/12 13:12	PER	7440-38-2	
Barium	31.4	mg/kg	1.0	6020	05/17/12 13:12	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 13:12	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 13:12	PER	7440-42-8	
Cadmium	0.54	mg/kg	0.10	6020	05/17/12 13:12	PER	7440-43-9	
Chromium	3.77	mg/kg	0.20	6020	05/17/12 13:12	PER	7440-47-3	
Cobalt	3.58	mg/kg	0.20	6020	05/17/12 13:12	PER	7440-48-4	
Copper	11.0	mg/kg	0.20	6020	05/17/12 13:12	PER	7440-50-8	
Lead	4.82	mg/kg	0.20	6020	05/17/12 13:12	PER	7439-92-1	
Manganese	268	mg/kg	0.20	6020	05/17/12 13:12	PER	7439-96-5	
Mercury	0.0098	mg/kg	0.0054	7471A	05/17/12 16:42	JRT	7439-97-6	
Nickel	10.6	mg/kg	0.20	6020	05/17/12 13:12	PER	7440-02-0	
Selenium	0.30	mg/kg	0.20	6020	05/17/12 13:12	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 13:12	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 13:12	PER	7440-28-0	
Vanadium	5.85	mg/kg	0.20	6020	05/17/12 13:12	PER	7440-62-2	
Zinc	61.6	mg/kg	1.0	6020	05/17/12 13:12	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/15/12 08:03	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52485.08 (continued)

Sample Tag: VAP-A5.3-OV159_36-37

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/15/12 08:03	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/15/12 08:03	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/15/12 08:03	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/15/12 08:03	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/15/12 08:03	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	129-00-0	



Analytical Laboratory Report

Lab Sample ID: S52485.08 (continued)

Sample Tag: VAP-A5.3-OV159_36-37

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/15/12 08:03	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.09
Sample Tag: VAP-A5.3-OV159_41-42
Collected Date/Time: 05/10/2012 13:50
Matrix: Soil
COC Reference: 67615

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 13:23	CCM		
Mercury Digestion	Completed			7471A	05/18/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/17/12 09:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 13:14	PER	7440-36-0	
Arsenic	3.56	mg/kg	0.10	6020	05/17/12 13:14	PER	7440-38-2	
Barium	33.1	mg/kg	1.0	6020	05/17/12 13:14	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 13:14	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 13:14	PER	7440-42-8	
Cadmium	0.17	mg/kg	0.10	6020	05/17/12 13:14	PER	7440-43-9	
Chromium	3.23	mg/kg	0.20	6020	05/17/12 13:14	PER	7440-47-3	
Cobalt	3.75	mg/kg	0.20	6020	05/17/12 13:14	PER	7440-48-4	
Copper	9.70	mg/kg	0.20	6020	05/17/12 13:14	PER	7440-50-8	
Lead	5.25	mg/kg	0.20	6020	05/17/12 13:14	PER	7439-92-1	
Manganese	269	mg/kg	0.20	6020	05/17/12 13:14	PER	7439-96-5	
Mercury	0.0116	mg/kg	0.0056	7471A	05/18/12 13:18	JRT	7439-97-6	
Nickel	11.4	mg/kg	0.20	6020	05/17/12 13:14	PER	7440-02-0	
Selenium	0.20	mg/kg	0.20	6020	05/17/12 13:14	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 13:14	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 13:14	PER	7440-28-0	
Vanadium	5.51	mg/kg	0.20	6020	05/17/12 13:14	PER	7440-62-2	
Zinc	22.1	mg/kg	1.0	6020	05/17/12 13:14	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 17:00	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52485.09 (continued)

Sample Tag: VAP-A5.3-OV159_41-42

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/17/12 17:00	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 17:00	PL	84-66-2	
Dimethyl phthalate	170	ug/kg	40	8270C	05/17/12 17:00	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/17/12 17:00	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/17/12 17:00	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 17:00	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52485.09 (continued)

Sample Tag: VAP-A5.3-OV159_41-42

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 17:00	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.10
Sample Tag: VAP-A5.3-OV159_46-47
Collected Date/Time: 05/10/2012 14:20
Matrix: Soil
COC Reference: 67615

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 13:23	CCM		
Mercury Digestion	Completed			7471A	05/18/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/17/12 09:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 13:16	PER	7440-36-0	
Arsenic	4.45	mg/kg	0.10	6020	05/17/12 13:16	PER	7440-38-2	
Barium	58.0	mg/kg	1.0	6020	05/17/12 13:16	PER	7440-39-3	
Beryllium	0.29	mg/kg	0.20	6020	05/17/12 13:16	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 13:16	PER	7440-42-8	
Cadmium	0.22	mg/kg	0.10	6020	05/17/12 13:16	PER	7440-43-9	
Chromium	5.58	mg/kg	0.20	6020	05/17/12 13:16	PER	7440-47-3	
Cobalt	6.28	mg/kg	0.20	6020	05/17/12 13:16	PER	7440-48-4	
Copper	16.7	mg/kg	0.20	6020	05/17/12 13:16	PER	7440-50-8	
Lead	8.02	mg/kg	0.20	6020	05/17/12 13:16	PER	7439-92-1	
Manganese	357	mg/kg	0.20	6020	05/17/12 13:16	PER	7439-96-5	
Mercury	0.0160	mg/kg	0.0058	7471A	05/18/12 13:20	JRT	7439-97-6	
Nickel	18.5	mg/kg	0.20	6020	05/17/12 13:16	PER	7440-02-0	
Selenium	0.41	mg/kg	0.20	6020	05/17/12 13:16	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 13:16	PER	7440-22-4	
Thallium	0.26	mg/kg	0.20	6020	05/17/12 13:16	PER	7440-28-0	
Vanadium	8.67	mg/kg	0.20	6020	05/17/12 13:16	PER	7440-62-2	
Zinc	29.5	mg/kg	1.0	6020	05/17/12 13:16	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 17:29	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52485.10 (continued)

Sample Tag: VAP-A5.3-OV159_46-47

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/17/12 17:29	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 17:29	PL	84-66-2	
Dimethyl phthalate	180	ug/kg	40	8270C	05/17/12 17:29	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/17/12 17:29	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/17/12 17:29	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 17:29	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52485.10 (continued)

Sample Tag: VAP-A5.3-OV159_46-47

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 17:29	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.11
Sample Tag: VAP-A5.1-MT115_4-5
Collected Date/Time: 05/10/2012 16:45
Matrix: Soil
COC Reference: 67615

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 13:23	CCM		
Mercury Digestion	Completed			7471A	05/18/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/17/12 09:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 13:19	PER	7440-36-0	
Arsenic	1.14	mg/kg	0.10	6020	05/17/12 13:19	PER	7440-38-2	
Barium	30.3	mg/kg	1.0	6020	05/17/12 13:19	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 13:19	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 13:19	PER	7440-42-8	
Cadmium	0.33	mg/kg	0.10	6020	05/17/12 13:19	PER	7440-43-9	
Chromium	2.18	mg/kg	0.20	6020	05/17/12 13:19	PER	7440-47-3	
Cobalt	0.90	mg/kg	0.20	6020	05/17/12 13:19	PER	7440-48-4	
Copper	5.92	mg/kg	0.20	6020	05/17/12 13:19	PER	7440-50-8	
Lead	32.9	mg/kg	0.20	6020	05/17/12 13:19	PER	7439-92-1	
Manganese	38.1	mg/kg	0.20	6020	05/17/12 13:19	PER	7439-96-5	
Mercury	0.0472	mg/kg	0.0058	7471A	05/18/12 13:22	JRT	7439-97-6	
Nickel	1.71	mg/kg	0.20	6020	05/17/12 13:19	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 13:19	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 13:19	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 13:19	PER	7440-28-0	
Vanadium	3.90	mg/kg	0.20	6020	05/17/12 13:19	PER	7440-62-2	
Zinc	11.6	mg/kg	1.0	6020	05/17/12 13:19	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	8,000	ug/kg	2,000	8270C	05/18/12 00:48	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	98-86-2	X
Anthracene	15,000	ug/kg	2,000	8270C	05/18/12 00:48	PL	120-12-7	X
Atrazine	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	4,000	8270C	05/18/12 00:48	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	100-52-7	X
Benzo(a)anthracene	169,000	ug/kg	2,000	8270C	05/18/12 00:48	PL	56-55-3	X
Benzo(a)pyrene	199,000	ug/kg	2,000	8270C	05/18/12 00:48	PL	50-32-8	X
Benzo(b)fluoranthene	391,000	ug/kg	2,000	8270C	05/18/12 00:48	PL	205-99-2	Xp

X-Elevated reporting limit due to matrix interference
p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S52485.11 (continued)

Sample Tag: VAP-A5.1-MT115_4-5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	68,000	ug/kg	2,000	8270C	05/18/12 00:48	PL	191-24-2	X
Benzo(k)fluoranthene	411,000	ug/kg	2,000	8270C	05/18/12 00:48	PL	207-08-9	Xp
Butyl benzyl phthalate	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	105-60-2	X
Carbazole	19,000	ug/kg	2,000	8270C	05/18/12 00:48	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	108-60-1	X
Chrysene	205,000	ug/kg	2,000	8270C	05/18/12 00:48	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	534-52-1	X
Dibenzo(ah)anthracene	22,000	ug/kg	4,000	8270C	05/18/12 00:48	PL	53-70-3	X
Dibenzofuran	2,000	ug/kg	2,000	8270C	05/18/12 00:48	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	4,000	8270C	05/18/12 00:48	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	4,000	8270C	05/18/12 00:48	PL	117-81-7	X
Fluoranthene	220,000	ug/kg	2,000	8270C	05/18/12 00:48	PL	206-44-0	X
Fluorene	5,000	ug/kg	2,000	8270C	05/18/12 00:48	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	68,000	ug/kg	2,000	8270C	05/18/12 00:48	PL	193-39-5	X
Isophorone	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	78-59-1	X
2-Methylnaphthalene	2,000	ug/kg	2,000	8270C	05/18/12 00:48	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	4,000	8270C	05/18/12 00:48	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	86-30-6	X
Naphthalene	4,000	ug/kg	2,000	8270C	05/18/12 00:48	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	4,000	8270C	05/18/12 00:48	PL	117-84-0	X

X-Elevated reporting limit due to matrix interference

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S52485.11 (continued)

Sample Tag: VAP-A5.1-MT115_4-5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pentachlorophenol	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	87-86-5	X
Phenanthrene	79,000	ug/kg	2,000	8270C	05/18/12 00:48	PL	85-01-8	X
Phenol	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	108-95-2	X
Pyrene	208,000	ug/kg	2,000	8270C	05/18/12 00:48	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	2,000	8270C	05/18/12 00:48	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52485.12
Sample Tag: VAP-A5.3-Dup23
Collected Date/Time: 05/10/2012 00:01
Matrix: Soil
COC Reference: 67615

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 13:23	CCM		
Mercury Digestion	Completed			7471A	05/18/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/17/12 09:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 13:21	PER	7440-36-0	
Arsenic	3.38	mg/kg	0.10	6020	05/17/12 13:21	PER	7440-38-2	
Barium	31.1	mg/kg	1.0	6020	05/17/12 13:21	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 13:21	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 13:21	PER	7440-42-8	
Cadmium	0.14	mg/kg	0.10	6020	05/17/12 13:21	PER	7440-43-9	
Chromium	3.59	mg/kg	0.20	6020	05/17/12 13:21	PER	7440-47-3	
Cobalt	3.46	mg/kg	0.20	6020	05/17/12 13:21	PER	7440-48-4	
Copper	10.3	mg/kg	0.20	6020	05/17/12 13:21	PER	7440-50-8	
Lead	5.51	mg/kg	0.20	6020	05/17/12 13:21	PER	7439-92-1	
Manganese	260	mg/kg	0.20	6020	05/17/12 13:21	PER	7439-96-5	
Mercury	0.0105	mg/kg	0.0055	7471A	05/18/12 13:24	JRT	7439-97-6	
Nickel	10.8	mg/kg	0.20	6020	05/17/12 13:21	PER	7440-02-0	
Selenium	0.21	mg/kg	0.20	6020	05/17/12 13:21	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 13:21	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 13:21	PER	7440-28-0	
Vanadium	5.74	mg/kg	0.20	6020	05/17/12 13:21	PER	7440-62-2	
Zinc	19.5	mg/kg	1.0	6020	05/17/12 13:21	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 17:58	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52485.12 (continued)

Sample Tag: VAP-A5.3-Dup23

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/17/12 17:58	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 17:58	PL	84-66-2	
Dimethyl phthalate	230	ug/kg	40	8270C	05/17/12 17:58	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	80	ug/kg	70	8270C	05/17/12 17:58	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/17/12 17:58	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 17:58	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52485.12 (continued)

Sample Tag: VAP-A5.3-Dup23

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 17:58	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.13
Sample Tag: SB-A5.2-OH162_1-2
Collected Date/Time: 05/10/2012 08:27
Matrix: Soil
COC Reference: 67619

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 13:23	CCM		
Extraction, PCB	Completed			3550B	05/16/12 10:25	CCM		
Mercury Digestion	Completed			7471A	05/18/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/17/12 09:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 13:23	PER	7440-36-0	
Arsenic	0.51	mg/kg	0.10	6020	05/17/12 13:23	PER	7440-38-2	
Barium	7.27	mg/kg	1.0	6020	05/17/12 13:23	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 13:23	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 13:23	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 13:23	PER	7440-43-9	
Chromium	1.26	mg/kg	0.20	6020	05/17/12 13:23	PER	7440-47-3	
Cobalt	1.41	mg/kg	0.20	6020	05/17/12 13:23	PER	7440-48-4	
Copper	1.49	mg/kg	0.20	6020	05/17/12 13:23	PER	7440-50-8	
Lead	2.03	mg/kg	0.20	6020	05/17/12 13:23	PER	7439-92-1	
Manganese	143	mg/kg	0.20	6020	05/17/12 13:23	PER	7439-96-5	
Mercury	0.0097	mg/kg	0.0055	7471A	05/18/12 13:27	JRT	7439-97-6	
Nickel	3.09	mg/kg	0.20	6020	05/17/12 13:23	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 13:23	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 13:23	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 13:23	PER	7440-28-0	
Vanadium	1.53	mg/kg	0.20	6020	05/17/12 13:23	PER	7440-62-2	
Zinc	2.67	mg/kg	1.0	6020	05/17/12 13:23	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/16/12 16:06	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/16/12 16:06	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/16/12 16:06	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/16/12 16:06	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/16/12 16:06	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/16/12 16:06	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/16/12 16:06	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52485.13 (continued)

Sample Tag: SB-A5.2-OH162_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 18:27	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/17/12 18:27	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 18:27	PL	84-66-2	
Dimethyl phthalate	160	ug/kg	40	8270C	05/17/12 18:27	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/17/12 18:27	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/17/12 18:27	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52485.13 (continued)

Sample Tag: SB-A5.2-OH162_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 18:27	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 18:27	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.14
Sample Tag: SB-A5.2-OH162_7-8
Collected Date/Time: 05/10/2012 09:42
Matrix: Soil
COC Reference: 67619

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 13:23	CCM		
Extraction, PCB	Completed			3550B	05/16/12 10:25	CCM		
Mercury Digestion	Completed			7471A	05/18/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/17/12 09:00	PER		

Inorganics

Total Solids	85	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 13:26	PER	7440-36-0	
Arsenic	1.32	mg/kg	0.10	6020	05/17/12 13:26	PER	7440-38-2	
Barium	57.2	mg/kg	1.0	6020	05/17/12 13:26	PER	7440-39-3	
Beryllium	0.22	mg/kg	0.20	6020	05/17/12 13:26	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 13:26	PER	7440-42-8	
Cadmium	0.19	mg/kg	0.10	6020	05/17/12 13:26	PER	7440-43-9	
Chromium	3.16	mg/kg	0.20	6020	05/17/12 13:26	PER	7440-47-3	
Cobalt	1.79	mg/kg	0.20	6020	05/17/12 13:26	PER	7440-48-4	
Copper	6.66	mg/kg	0.20	6020	05/17/12 13:26	PER	7440-50-8	
Lead	2.99	mg/kg	0.20	6020	05/17/12 13:26	PER	7439-92-1	
Manganese	317	mg/kg	0.20	6020	05/17/12 13:26	PER	7439-96-5	
Mercury	0.0146	mg/kg	0.0059	7471A	05/18/12 13:29	JRT	7439-97-6	
Nickel	6.87	mg/kg	0.20	6020	05/17/12 13:26	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 13:26	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 13:26	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 13:26	PER	7440-28-0	
Vanadium	8.99	mg/kg	0.20	6020	05/17/12 13:26	PER	7440-62-2	
Zinc	7.82	mg/kg	1.0	6020	05/17/12 13:26	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/17/12 13:01	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/17/12 13:01	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/17/12 13:01	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/17/12 13:01	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/17/12 13:01	JANB	12672-29-6	
PCB-1254	9	ug/kg	3	8082A	05/17/12 13:01	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/17/12 13:01	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	208-96-8	
Acetophenone	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52485.14 (continued)

Sample Tag: SB-A5.2-OH162_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	120-12-7	
Atrazine	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	600	8270C	05/18/12 00:19	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	105-60-2	
Carbazole	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	108-60-1	
Chrysene	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	600	8270C	05/18/12 00:19	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	600	8270C	05/18/12 00:19	PL	84-66-2	X
Dimethyl phthalate	400	ug/kg	300	8270C	05/18/12 00:19	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	600	8270C	05/18/12 00:19	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	206-44-0	
Fluorene	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	193-39-5	
Isophorone	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	600	8270C	05/18/12 00:19	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	88-74-4	

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52485.14 (continued)

Sample Tag: SB-A5.2-OH162_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	86-30-6	
Naphthalene	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	600	8270C	05/18/12 00:19	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	85-01-8	
Phenol	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	108-95-2	
Pyrene	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	300	8270C	05/18/12 00:19	PL	88-06-2	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52485.15
Sample Tag: SB-A5.2-OH162_13-14
Collected Date/Time: 05/10/2012 09:53
Matrix: Soil
COC Reference: 67619

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 13:23	CCM		
Extraction, PCB	Completed			3550B	05/16/12 10:25	CCM		
Mercury Digestion	Completed			7471A	05/18/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/17/12 09:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 13:28	PER	7440-36-0	
Arsenic	0.71	mg/kg	0.10	6020	05/17/12 13:28	PER	7440-38-2	
Barium	21.0	mg/kg	1.0	6020	05/17/12 13:28	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 13:28	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 13:28	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	05/17/12 13:28	PER	7440-43-9	
Chromium	3.33	mg/kg	0.20	6020	05/17/12 13:28	PER	7440-47-3	
Cobalt	2.25	mg/kg	0.20	6020	05/17/12 13:28	PER	7440-48-4	
Copper	10.2	mg/kg	0.20	6020	05/17/12 13:28	PER	7440-50-8	
Lead	3.66	mg/kg	0.20	6020	05/17/12 13:28	PER	7439-92-1	
Manganese	233	mg/kg	0.20	6020	05/17/12 13:28	PER	7439-96-5	
Mercury	0.0098	mg/kg	0.0055	7471A	05/18/12 13:31	JRT	7439-97-6	
Nickel	7.91	mg/kg	0.20	6020	05/17/12 13:28	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 13:28	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 13:28	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 13:28	PER	7440-28-0	
Vanadium	5.57	mg/kg	0.20	6020	05/17/12 13:28	PER	7440-62-2	
Zinc	15.7	mg/kg	1.0	6020	05/17/12 13:28	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	5	8082A	05/16/12 16:37	JANB	12674-11-2	X
PCB-1242	Not detected	ug/kg	5	8082A	05/16/12 16:37	JANB	53469-21-9	X
PCB-1221	Not detected	ug/kg	5	8082A	05/16/12 16:37	JANB	11104-28-2	X
PCB-1232	Not detected	ug/kg	5	8082A	05/16/12 16:37	JANB	11141-16-5	X
PCB-1248	Not detected	ug/kg	5	8082A	05/16/12 16:37	JANB	12672-29-6	X
PCB-1254	Not detected	ug/kg	5	8082A	05/16/12 16:37	JANB	11097-69-1	X
PCB-1260	Not detected	ug/kg	5	8082A	05/16/12 16:37	JANB	11096-82-5	X

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	208-96-8	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52485.15 (continued)

Sample Tag: SB-A5.2-OH162_13-14

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 18:57	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/17/12 18:57	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 18:57	PL	84-66-2	
Dimethyl phthalate	70	ug/kg	40	8270C	05/17/12 18:57	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/17/12 18:57	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/17/12 18:57	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	88-74-4	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52485.15 (continued)

Sample Tag: SB-A5.2-OH162_13-14

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 18:57	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.16
Sample Tag: SB-A5.2-OH162_24-25
Collected Date/Time: 05/10/2012 10:13
Matrix: Soil
COC Reference: 67619

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 13:23	CCM		
Extraction, PCB	Completed			3550B	05/16/12 10:25	CCM		
Mercury Digestion	Completed			7471A	05/18/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/17/12 09:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 13:30	PER	7440-36-0	
Arsenic	1.97	mg/kg	0.10	6020	05/17/12 13:30	PER	7440-38-2	
Barium	23.0	mg/kg	1.0	6020	05/17/12 13:30	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 13:30	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 13:30	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 13:30	PER	7440-43-9	
Chromium	2.84	mg/kg	0.20	6020	05/17/12 13:30	PER	7440-47-3	
Cobalt	2.60	mg/kg	0.20	6020	05/17/12 13:30	PER	7440-48-4	
Copper	7.22	mg/kg	0.20	6020	05/17/12 13:30	PER	7440-50-8	
Lead	3.39	mg/kg	0.20	6020	05/17/12 13:30	PER	7439-92-1	
Manganese	215	mg/kg	0.20	6020	05/17/12 13:30	PER	7439-96-5	
Mercury	0.0096	mg/kg	0.0054	7471A	05/18/12 13:33	JRT	7439-97-6	
Nickel	7.58	mg/kg	0.20	6020	05/17/12 13:30	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 13:30	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 13:30	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 13:30	PER	7440-28-0	
Vanadium	4.74	mg/kg	0.20	6020	05/17/12 13:30	PER	7440-62-2	
Zinc	9.85	mg/kg	1.0	6020	05/17/12 13:30	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/16/12 16:47	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/16/12 16:47	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/16/12 16:47	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/16/12 16:47	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/16/12 16:47	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/16/12 16:47	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/16/12 16:47	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52485.16 (continued)

Sample Tag: SB-A5.2-OH162_24-25

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 19:26	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/17/12 19:26	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 19:26	PL	84-66-2	
Dimethyl phthalate	110	ug/kg	40	8270C	05/17/12 19:26	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/17/12 19:26	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/17/12 19:26	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52485.16 (continued)

Sample Tag: SB-A5.2-OH162_24-25

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 19:26	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 19:26	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.17
Sample Tag: SB-A5.2-OH162_17-21
Collected Date/Time: 05/10/2012 10:42
Matrix: Groundwater
COC Reference: 67619

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	3.9	IR
2	40ml Glass	HCL	Yes	3.9	IR
1	125ml Plastic	HNO3	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/14/12 22:46	EMR		
Extraction, PCB	Completed			3510C	05/16/12 12:15	ADB		
Mercury Digestion	Completed			7471A	05/11/12 10:00	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:45	SLS	7440-36-0	
Arsenic, Dissolved	0.007	mg/L	0.002	6020	05/21/12 18:45	SLS	7440-38-2	
Barium, Dissolved	0.132	mg/L	0.010	6020	05/21/12 18:45	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 18:45	SLS	7440-41-7	
Boron, Dissolved	0.48	mg/L	0.04	6020	05/21/12 18:45	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 18:45	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:45	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:45	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:45	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:45	SLS	7439-92-1	
Manganese, Dissolved	0.352	mg/L	0.010	6020	05/21/12 18:45	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/11/12 14:36	JRT	7439-97-6	
Nickel, Dissolved	0.021	mg/L	0.010	6020	05/21/12 18:45	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:45	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 18:45	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:45	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:45	SLS	7440-62-2	
Zinc, Dissolved	0.021	mg/L	0.010	6020	05/21/12 18:45	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/16/12 13:44	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.1	8082A	05/16/12 13:44	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.1	8082A	05/16/12 13:44	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	8082A	05/16/12 13:44	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	8082A	05/16/12 13:44	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	8082A	05/16/12 13:44	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/16/12 13:44	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/15/12 20:11	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/15/12 20:11	PL	118-74-1	



Analytical Laboratory Report

Lab Sample ID: S52485.17 (continued)

Sample Tag: SB-A5.2-OH162_17-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/15/12 17:29	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/15/12 17:29	PL	84-66-2	
Dimethyl phthalate	10	ug/L	2	8270C	05/15/12 17:29	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/15/12 17:29	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	88-75-5	



Analytical Laboratory Report

Lab Sample ID: S52485.17 (continued)

Sample Tag: SB-A5.2-OH162_17-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 17:29	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.18
Sample Tag: SB-A5.2-OG138_1-2
Collected Date/Time: 05/10/2012 11:25
Matrix: Soil
COC Reference: 67619

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 13:23	CCM		
Extraction, PCB	Completed			3550B	05/15/12 17:14	ADB		
Mercury Digestion	Completed			7471A	05/18/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/17/12 09:00	PER		

Inorganics

Total Solids	85	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 13:32	PER	7440-36-0	
Arsenic	0.49	mg/kg	0.10	6020	05/17/12 13:32	PER	7440-38-2	
Barium	4.96	mg/kg	1.0	6020	05/17/12 13:32	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 13:32	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 13:32	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 13:32	PER	7440-43-9	
Chromium	0.94	mg/kg	0.20	6020	05/17/12 13:32	PER	7440-47-3	
Cobalt	1.90	mg/kg	0.20	6020	05/17/12 13:32	PER	7440-48-4	
Copper	2.26	mg/kg	0.20	6020	05/17/12 13:32	PER	7440-50-8	
Lead	1.69	mg/kg	0.20	6020	05/17/12 13:32	PER	7439-92-1	
Manganese	97.3	mg/kg	0.20	6020	05/17/12 13:32	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0059	7471A	05/18/12 13:35	JRT	7439-97-6	
Nickel	2.65	mg/kg	0.20	6020	05/17/12 13:32	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 13:32	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 13:32	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 13:32	PER	7440-28-0	
Vanadium	1.30	mg/kg	0.20	6020	05/17/12 13:32	PER	7440-62-2	
Zinc	4.31	mg/kg	1.0	6020	05/17/12 13:32	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 20:36	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 20:36	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 20:36	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 20:36	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 20:36	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 20:36	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 20:36	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52485.18 (continued)

Sample Tag: SB-A5.2-OG138_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 19:55	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/17/12 19:55	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 19:55	PL	84-66-2	
Dimethyl phthalate	110	ug/kg	40	8270C	05/17/12 19:55	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/17/12 19:55	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/17/12 19:55	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52485.18 (continued)

Sample Tag: SB-A5.2-OG138_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 19:55	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 19:55	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.19
Sample Tag: SB-A5.2-OG138_6-7
Collected Date/Time: 05/10/2012 12:07
Matrix: Soil
COC Reference: 67619

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 13:23	CCM		
Extraction, PCB	Completed			3550B	05/15/12 17:14	ADB		
Mercury Digestion	Completed			7471A	05/18/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/17/12 11:00	PER		

Inorganics

Total Solids	85	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 13:52	PER	7440-36-0	
Arsenic	0.76	mg/kg	0.10	6020	05/17/12 13:52	PER	7440-38-2	
Barium	21.5	mg/kg	1.0	6020	05/17/12 13:52	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 13:52	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 13:52	PER	7440-42-8	
Cadmium	0.12	mg/kg	0.10	6020	05/17/12 13:52	PER	7440-43-9	
Chromium	2.15	mg/kg	0.20	6020	05/17/12 13:52	PER	7440-47-3	
Cobalt	2.13	mg/kg	0.20	6020	05/17/12 13:52	PER	7440-48-4	
Copper	8.27	mg/kg	0.20	6020	05/17/12 13:52	PER	7440-50-8	
Lead	5.16	mg/kg	0.20	6020	05/17/12 13:52	PER	7439-92-1	
Manganese	256	mg/kg	0.20	6020	05/17/12 13:52	PER	7439-96-5	
Mercury	0.0136	mg/kg	0.0058	7471A	05/18/12 13:49	JRT	7439-97-6	
Nickel	6.19	mg/kg	0.20	6020	05/17/12 13:52	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 13:52	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 13:52	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 13:52	PER	7440-28-0	
Vanadium	5.85	mg/kg	0.20	6020	05/17/12 13:52	PER	7440-62-2	
Zinc	7.22	mg/kg	1.0	6020	05/17/12 13:52	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 20:47	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 20:47	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 20:47	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 20:47	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 20:47	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 20:47	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 20:47	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52485.19 (continued)

Sample Tag: SB-A5.2-OG138_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	100	ug/kg	40	8270C	05/17/12 20:25	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 20:25	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	100-52-7	
Benzo(a)anthracene	100	ug/kg	40	8270C	05/17/12 20:25	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	108-60-1	
Chrysene	80	ug/kg	40	8270C	05/17/12 20:25	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/17/12 20:25	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 20:25	PL	84-66-2	
Dimethyl phthalate	110	ug/kg	40	8270C	05/17/12 20:25	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/17/12 20:25	PL	117-81-7	
Fluoranthene	1,340	ug/kg	40	8270C	05/17/12 20:25	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/17/12 20:25	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52485.19 (continued)

Sample Tag: SB-A5.2-OG138_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 20:25	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	87-86-5	
Phenanthrene	830	ug/kg	40	8270C	05/17/12 20:25	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	108-95-2	
Pyrene	900	ug/kg	40	8270C	05/17/12 20:25	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 20:25	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.20
Sample Tag: SB-A5.2-OG138_12-13
Collected Date/Time: 05/10/2012 12:15
Matrix: Soil
COC Reference: 67619

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 13:23	CCM		
Extraction, PCB	Completed			3550B	05/15/12 17:14	ADB		
Mercury Digestion	Completed			7471A	05/18/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/17/12 11:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 14:12	PER	7440-36-0	
Arsenic	0.84	mg/kg	0.10	6020	05/17/12 14:12	PER	7440-38-2	
Barium	28.2	mg/kg	1.0	6020	05/17/12 14:12	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 14:12	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 14:12	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 14:12	PER	7440-43-9	
Chromium	2.08	mg/kg	0.20	6020	05/17/12 14:12	PER	7440-47-3	
Cobalt	1.58	mg/kg	0.20	6020	05/17/12 14:12	PER	7440-48-4	
Copper	6.82	mg/kg	0.20	6020	05/17/12 14:12	PER	7440-50-8	
Lead	4.00	mg/kg	0.20	6020	05/17/12 14:12	PER	7439-92-1	
Manganese	222	mg/kg	0.20	6020	05/17/12 14:12	PER	7439-96-5	
Mercury	0.0108	mg/kg	0.0056	7471A	05/18/12 13:51	JRT	7439-97-6	
Nickel	5.58	mg/kg	0.20	6020	05/17/12 14:12	PER	7440-02-0	
Selenium	0.22	mg/kg	0.20	6020	05/17/12 14:12	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 14:12	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 14:12	PER	7440-28-0	
Vanadium	3.60	mg/kg	0.20	6020	05/17/12 14:12	PER	7440-62-2	
Zinc	7.07	mg/kg	1.0	6020	05/17/12 14:12	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 20:58	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 20:58	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 20:58	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 20:58	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 20:58	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 20:58	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 20:58	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52485.20 (continued)

Sample Tag: SB-A5.2-OG138_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 20:54	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/17/12 20:54	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 20:54	PL	84-66-2	
Dimethyl phthalate	180	ug/kg	40	8270C	05/17/12 20:54	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/17/12 20:54	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/17/12 20:54	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52485.20 (continued)

Sample Tag: SB-A5.2-OG138_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 20:54	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 20:54	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.21
Sample Tag: SB-A5.2-OG138_18-19
Collected Date/Time: 05/10/2012 12:30
Matrix: Soil
COC Reference: 67619

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 13:23	CCM		
Extraction, PCB	Completed			3550B	05/15/12 17:14	ADB		
Mercury Digestion	Completed			7471A	05/18/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/17/12 11:00	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 14:15	PER	7440-36-0	
Arsenic	1.94	mg/kg	0.10	6020	05/17/12 14:15	PER	7440-38-2	
Barium	31.3	mg/kg	1.0	6020	05/17/12 14:15	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 14:15	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 14:15	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 14:15	PER	7440-43-9	
Chromium	2.78	mg/kg	0.20	6020	05/17/12 14:15	PER	7440-47-3	
Cobalt	2.62	mg/kg	0.20	6020	05/17/12 14:15	PER	7440-48-4	
Copper	9.19	mg/kg	0.20	6020	05/17/12 14:15	PER	7440-50-8	
Lead	4.29	mg/kg	0.20	6020	05/17/12 14:15	PER	7439-92-1	
Manganese	253	mg/kg	0.20	6020	05/17/12 14:15	PER	7439-96-5	
Mercury	0.0161	mg/kg	0.0061	7471A	05/18/12 13:54	JRT	7439-97-6	
Nickel	8.44	mg/kg	0.20	6020	05/17/12 14:15	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 14:15	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 14:15	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 14:15	PER	7440-28-0	
Vanadium	4.15	mg/kg	0.20	6020	05/17/12 14:15	PER	7440-62-2	
Zinc	10.9	mg/kg	1.0	6020	05/17/12 14:15	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 21:08	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 21:08	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 21:08	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 21:08	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 21:08	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 21:08	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 21:08	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52485.21 (continued)

Sample Tag: SB-A5.2-OG138_18-19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 21:23	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/17/12 21:23	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 21:23	PL	84-66-2	
Dimethyl phthalate	150	ug/kg	40	8270C	05/17/12 21:23	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/17/12 21:23	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/17/12 21:23	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52485.21 (continued)

Sample Tag: SB-A5.2-OG138_18-19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 21:23	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 21:23	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.22
Sample Tag: SB-A5.2-OA138_1-2
Collected Date/Time: 05/10/2012 13:30
Matrix: Soil
COC Reference: 67619

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 13:23	CCM		
Extraction, PCB	Completed			3550B	05/15/12 17:14	ADB		
Mercury Digestion	Completed			7471A	05/18/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/17/12 11:00	PER		

Inorganics

Total Solids	71	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	0.30	mg/kg	0.20	6020	05/17/12 14:17	PER	7440-36-0	
Arsenic	1.28	mg/kg	0.10	6020	05/17/12 14:17	PER	7440-38-2	
Barium	20.7	mg/kg	1.0	6020	05/17/12 14:17	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 14:17	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 14:17	PER	7440-42-8	
Cadmium	0.19	mg/kg	0.10	6020	05/17/12 14:17	PER	7440-43-9	
Chromium	5.34	mg/kg	0.20	6020	05/17/12 14:17	PER	7440-47-3	
Cobalt	1.83	mg/kg	0.20	6020	05/17/12 14:17	PER	7440-48-4	
Copper	20.2	mg/kg	0.20	6020	05/17/12 14:17	PER	7440-50-8	
Lead	44.8	mg/kg	0.20	6020	05/17/12 14:17	PER	7439-92-1	
Manganese	153	mg/kg	0.20	6020	05/17/12 14:17	PER	7439-96-5	
Mercury	0.0655	mg/kg	0.007	7471A	05/18/12 13:56	JRT	7439-97-6	
Nickel	8.01	mg/kg	0.20	6020	05/17/12 14:17	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 14:17	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 14:17	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 14:17	PER	7440-28-0	
Vanadium	2.14	mg/kg	0.20	6020	05/17/12 14:17	PER	7440-62-2	
Zinc	25.8	mg/kg	1.0	6020	05/17/12 14:17	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	8	8082A	05/16/12 13:08	JANB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	8	8082A	05/16/12 13:08	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	8	8082A	05/16/12 13:08	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	8	8082A	05/16/12 13:08	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	8	8082A	05/16/12 13:08	JANB	12672-29-6	Y
PCB-1254	100	ug/kg	8	8082A	05/16/12 13:08	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	8	8082A	05/16/12 13:08	JANB	11096-82-5	Y

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	208-96-8	

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S52485.22 (continued)

Sample Tag: SB-A5.2-OA138_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	98-86-2	
Anthracene	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	120-12-7	
Atrazine	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	90	8270C	05/17/12 23:49	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	100-52-7	
Benzo(a)anthracene	100	ug/kg	50	8270C	05/17/12 23:49	PL	56-55-3	
Benzo(a)pyrene	100	ug/kg	50	8270C	05/17/12 23:49	PL	50-32-8	
Benzo(b)fluoranthene	220	ug/kg	50	8270C	05/17/12 23:49	PL	205-99-2	p
Benzo(ghi)perylene	90	ug/kg	50	8270C	05/17/12 23:49	PL	191-24-2	
Benzo(k)fluoranthene	240	ug/kg	50	8270C	05/17/12 23:49	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	105-60-2	
Carbazole	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	108-60-1	
Chrysene	120	ug/kg	50	8270C	05/17/12 23:49	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	90	8270C	05/17/12 23:49	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	90	8270C	05/17/12 23:49	PL	84-66-2	
Dimethyl phthalate	210	ug/kg	50	8270C	05/17/12 23:49	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	90	8270C	05/17/12 23:49	PL	117-81-7	
Fluoranthene	180	ug/kg	50	8270C	05/17/12 23:49	PL	206-44-0	
Fluorene	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	90	ug/kg	50	8270C	05/17/12 23:49	PL	193-39-5	
Isophorone	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	90	8270C	05/17/12 23:49	PL	3/4-Cresol	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52485.22 (continued)

Sample Tag: SB-A5.2-OA138_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	86-30-6	
Naphthalene	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	90	8270C	05/17/12 23:49	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	87-86-5	
Phenanthrene	60	ug/kg	50	8270C	05/17/12 23:49	PL	85-01-8	
Phenol	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	108-95-2	
Pyrene	150	ug/kg	50	8270C	05/17/12 23:49	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	50	8270C	05/17/12 23:49	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.23
Sample Tag: SB-A5.2-OA138_7-8
Collected Date/Time: 05/10/2012 13:56
Matrix: Soil
COC Reference: 67619

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 13:23	CCM		
Extraction, PCB	Completed			3550B	05/15/12 17:14	ADB		
Mercury Digestion	Completed			7471A	05/18/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/17/12 11:00	PER		

Inorganics

Total Solids	85	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 14:32	PER	7440-36-0	
Arsenic	1.13	mg/kg	0.10	6020	05/17/12 14:32	PER	7440-38-2	
Barium	35.5	mg/kg	1.0	6020	05/17/12 14:32	PER	7440-39-3	
Beryllium	0.22	mg/kg	0.20	6020	05/17/12 14:32	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 14:32	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	05/17/12 14:32	PER	7440-43-9	
Chromium	3.31	mg/kg	0.20	6020	05/17/12 14:32	PER	7440-47-3	
Cobalt	1.77	mg/kg	0.20	6020	05/17/12 14:32	PER	7440-48-4	
Copper	7.74	mg/kg	0.20	6020	05/17/12 14:32	PER	7440-50-8	
Lead	12.0	mg/kg	0.20	6020	05/17/12 14:32	PER	7439-92-1	
Manganese	197	mg/kg	0.20	6020	05/17/12 14:32	PER	7439-96-5	
Mercury	0.0238	mg/kg	0.0058	7471A	05/18/12 13:58	JRT	7439-97-6	
Nickel	4.39	mg/kg	0.20	6020	05/17/12 14:32	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 14:32	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 14:32	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 14:32	PER	7440-28-0	
Vanadium	6.85	mg/kg	0.20	6020	05/17/12 14:32	PER	7440-62-2	
Zinc	10.3	mg/kg	1.0	6020	05/17/12 14:32	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 21:29	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 21:29	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 21:29	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 21:29	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 21:29	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 21:29	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 21:29	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52485.23 (continued)

Sample Tag: SB-A5.2-OA138_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 21:52	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	100-52-7	
Benzo(a)anthracene	50	ug/kg	40	8270C	05/17/12 21:52	PL	56-55-3	
Benzo(a)pyrene	40	ug/kg	40	8270C	05/17/12 21:52	PL	50-32-8	
Benzo(b)fluoranthene	80	ug/kg	40	8270C	05/17/12 21:52	PL	205-99-2	p
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	191-24-2	
Benzo(k)fluoranthene	80	ug/kg	40	8270C	05/17/12 21:52	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	105-60-2	
Carbazole	50	ug/kg	40	8270C	05/17/12 21:52	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	108-60-1	
Chrysene	50	ug/kg	40	8270C	05/17/12 21:52	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/17/12 21:52	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 21:52	PL	84-66-2	
Dimethyl phthalate	50	ug/kg	40	8270C	05/17/12 21:52	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/17/12 21:52	PL	117-81-7	
Fluoranthene	90	ug/kg	40	8270C	05/17/12 21:52	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/17/12 21:52	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	88-74-4	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52485.23 (continued)

Sample Tag: SB-A5.2-OA138_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 21:52	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	108-95-2	
Pyrene	70	ug/kg	40	8270C	05/17/12 21:52	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 21:52	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.24
Sample Tag: SB-A5.2-Dup22
Collected Date/Time: 05/10/2012 00:01
Matrix: Soil
COC Reference: 67619

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 13:23	CCM		
Extraction, PCB	Completed			3550B	05/15/12 17:14	ADB		
Mercury Digestion	Completed			7471A	05/18/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/17/12 11:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 14:34	PER	7440-36-0	
Arsenic	1.16	mg/kg	0.10	6020	05/17/12 14:34	PER	7440-38-2	
Barium	24.3	mg/kg	1.0	6020	05/17/12 14:34	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 14:34	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 14:34	PER	7440-42-8	
Cadmium	0.13	mg/kg	0.10	6020	05/17/12 14:34	PER	7440-43-9	
Chromium	2.34	mg/kg	0.20	6020	05/17/12 14:34	PER	7440-47-3	
Cobalt	2.70	mg/kg	0.20	6020	05/17/12 14:34	PER	7440-48-4	
Copper	11.0	mg/kg	0.20	6020	05/17/12 14:34	PER	7440-50-8	
Lead	24.1	mg/kg	0.20	6020	05/17/12 14:34	PER	7439-92-1	
Manganese	137	mg/kg	0.20	6020	05/17/12 14:34	PER	7439-96-5	
Mercury	0.0108	mg/kg	0.0057	7471A	05/18/12 14:00	JRT	7439-97-6	
Nickel	6.41	mg/kg	0.20	6020	05/17/12 14:34	PER	7440-02-0	
Selenium	0.28	mg/kg	0.20	6020	05/17/12 14:34	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 14:34	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 14:34	PER	7440-28-0	
Vanadium	6.66	mg/kg	0.20	6020	05/17/12 14:34	PER	7440-62-2	
Zinc	10.0	mg/kg	1.0	6020	05/17/12 14:34	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 21:40	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 21:40	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 21:40	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 21:40	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 21:40	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 21:40	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 21:40	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52485.24 (continued)

Sample Tag: SB-A5.2-Dup22

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	130	ug/kg	40	8270C	05/17/12 22:22	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 22:22	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	100-52-7	
Benzo(a)anthracene	50	ug/kg	40	8270C	05/17/12 22:22	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	50-32-8	
Benzo(b)fluoranthene	50	ug/kg	40	8270C	05/17/12 22:22	PL	205-99-2	p
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	191-24-2	
Benzo(k)fluoranthene	50	ug/kg	40	8270C	05/17/12 22:22	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	108-60-1	
Chrysene	50	ug/kg	40	8270C	05/17/12 22:22	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/17/12 22:22	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 22:22	PL	84-66-2	
Dimethyl phthalate	180	ug/kg	40	8270C	05/17/12 22:22	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/17/12 22:22	PL	117-81-7	
Fluoranthene	870	ug/kg	40	8270C	05/17/12 22:22	PL	206-44-0	
Fluorene	90	ug/kg	40	8270C	05/17/12 22:22	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/17/12 22:22	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	88-74-4	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52485.24 (continued)

Sample Tag: SB-A5.2-Dup22

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 22:22	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	87-86-5	
Phenanthrene	880	ug/kg	40	8270C	05/17/12 22:22	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	108-95-2	
Pyrene	540	ug/kg	40	8270C	05/17/12 22:22	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 22:22	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.25
Sample Tag: SB-A5.2-OA138_11-12
Collected Date/Time: 05/10/2012 14:52
Matrix: Soil
COC Reference: 67611

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 13:23	CCM		
Extraction, PCB	Completed			3550B	05/15/12 17:14	ADB		
Mercury Digestion	Completed			7471A	05/18/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/17/12 11:00	PER		

Inorganics

Total Solids	84	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 14:36	PER	7440-36-0	
Arsenic	0.95	mg/kg	0.10	6020	05/17/12 14:36	PER	7440-38-2	
Barium	15.5	mg/kg	1.0	6020	05/17/12 14:36	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 14:36	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 14:36	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 14:36	PER	7440-43-9	
Chromium	3.71	mg/kg	0.20	6020	05/17/12 14:36	PER	7440-47-3	
Cobalt	1.18	mg/kg	0.20	6020	05/17/12 14:36	PER	7440-48-4	
Copper	7.95	mg/kg	0.20	6020	05/17/12 14:36	PER	7440-50-8	
Lead	24.8	mg/kg	0.20	6020	05/17/12 14:36	PER	7439-92-1	
Manganese	157	mg/kg	0.20	6020	05/17/12 14:36	PER	7439-96-5	
Mercury	0.0073	mg/kg	0.0058	7471A	05/18/12 14:02	JRT	7439-97-6	
Nickel	3.86	mg/kg	0.20	6020	05/17/12 14:36	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 14:36	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 14:36	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 14:36	PER	7440-28-0	
Vanadium	4.00	mg/kg	0.20	6020	05/17/12 14:36	PER	7440-62-2	
Zinc	7.88	mg/kg	1.0	6020	05/17/12 14:36	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 21:51	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 21:51	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 21:51	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 21:51	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 21:51	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 21:51	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 21:51	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	210	ug/kg	40	8270C	05/17/12 22:51	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52485.25 (continued)

Sample Tag: SB-A5.2-OA138_11-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	40	ug/kg	40	8270C	05/17/12 22:51	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 22:51	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	100-52-7	
Benzo(a)anthracene	40	ug/kg	40	8270C	05/17/12 22:51	PL	56-55-3	
Benzo(a)pyrene	40	ug/kg	40	8270C	05/17/12 22:51	PL	50-32-8	
Benzo(b)fluoranthene	80	ug/kg	40	8270C	05/17/12 22:51	PL	205-99-2	p
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	191-24-2	
Benzo(k)fluoranthene	90	ug/kg	40	8270C	05/17/12 22:51	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	108-60-1	
Chrysene	50	ug/kg	40	8270C	05/17/12 22:51	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/17/12 22:51	PL	53-70-3	
Dibenzofuran	50	ug/kg	40	8270C	05/17/12 22:51	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 22:51	PL	84-66-2	
Dimethyl phthalate	90	ug/kg	40	8270C	05/17/12 22:51	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/17/12 22:51	PL	117-81-7	
Fluoranthene	130	ug/kg	40	8270C	05/17/12 22:51	PL	206-44-0	
Fluorene	310	ug/kg	40	8270C	05/17/12 22:51	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/17/12 22:51	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	88-74-4	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52485.25 (continued)

Sample Tag: SB-A5.2-OA138_11-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 22:51	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	87-86-5	
Phenanthrene	50	ug/kg	40	8270C	05/17/12 22:51	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	108-95-2	
Pyrene	90	ug/kg	40	8270C	05/17/12 22:51	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 22:51	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.26
Sample Tag: SB-A5.2-OA138_17-18
Collected Date/Time: 05/10/2012 15:10
Matrix: Soil
COC Reference: 67611

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 13:23	CCM		
Extraction, PCB	Completed			3550B	05/15/12 17:14	ADB		
Mercury Digestion	Completed			7471A	05/18/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/17/12 11:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 14:38	PER	7440-36-0	
Arsenic	2.10	mg/kg	0.10	6020	05/17/12 14:38	PER	7440-38-2	
Barium	21.4	mg/kg	1.0	6020	05/17/12 14:38	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 14:38	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 14:38	PER	7440-42-8	
Cadmium	0.20	mg/kg	0.10	6020	05/17/12 14:38	PER	7440-43-9	
Chromium	2.15	mg/kg	0.20	6020	05/17/12 14:38	PER	7440-47-3	
Cobalt	2.21	mg/kg	0.20	6020	05/17/12 14:38	PER	7440-48-4	
Copper	6.82	mg/kg	0.20	6020	05/17/12 14:38	PER	7440-50-8	
Lead	3.68	mg/kg	0.20	6020	05/17/12 14:38	PER	7439-92-1	
Manganese	222	mg/kg	0.20	6020	05/17/12 14:38	PER	7439-96-5	
Mercury	0.0093	mg/kg	0.0054	7471A	05/18/12 14:05	JRT	7439-97-6	
Nickel	7.36	mg/kg	0.20	6020	05/17/12 14:38	PER	7440-02-0	
Selenium	0.29	mg/kg	0.20	6020	05/17/12 14:38	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 14:38	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 14:38	PER	7440-28-0	
Vanadium	3.72	mg/kg	0.20	6020	05/17/12 14:38	PER	7440-62-2	
Zinc	12.9	mg/kg	1.0	6020	05/17/12 14:38	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 22:01	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 22:01	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 22:01	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 22:01	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 22:01	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 22:01	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 22:01	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52485.26 (continued)

Sample Tag: SB-A5.2-OA138_17-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 23:20	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/17/12 23:20	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 23:20	PL	84-66-2	
Dimethyl phthalate	80	ug/kg	40	8270C	05/17/12 23:20	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/17/12 23:20	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/17/12 23:20	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52485.26 (continued)

Sample Tag: SB-A5.2-OA138_17-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 23:20	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 23:20	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.27
Sample Tag: SB-A5.2-OA138_23-24
Collected Date/Time: 05/10/2012 15:23
Matrix: Soil
COC Reference: 67611

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 22:08	EMR		
Extraction, PCB	Completed			3550B	05/15/12 17:14	ADB		
Mercury Digestion	Completed			7471A	05/18/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/17/12 09:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 12:33	PER	7440-36-0	
Arsenic	2.05	mg/kg	0.10	6020	05/17/12 12:33	PER	7440-38-2	
Barium	20.3	mg/kg	1.0	6020	05/17/12 12:33	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 12:33	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 12:33	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 12:33	PER	7440-43-9	
Chromium	2.87	mg/kg	0.20	6020	05/17/12 12:33	PER	7440-47-3	
Cobalt	2.38	mg/kg	0.20	6020	05/17/12 12:33	PER	7440-48-4	
Copper	6.61	mg/kg	0.20	6020	05/17/12 12:33	PER	7440-50-8	
Lead	3.37	mg/kg	0.20	6020	05/17/12 12:33	PER	7439-92-1	
Manganese	213	mg/kg	0.20	6020	05/17/12 12:33	PER	7439-96-5	
Mercury	0.0069	mg/kg	0.0055	7471A	05/18/12 13:38	JRT	7439-97-6	
Nickel	7.05	mg/kg	0.20	6020	05/17/12 12:33	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 12:33	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 12:33	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 12:33	PER	7440-28-0	
Vanadium	4.67	mg/kg	0.20	6020	05/17/12 12:33	PER	7440-62-2	
Zinc	13.0	mg/kg	1.0	6020	05/17/12 12:33	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/15/12 18:51	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 18:51	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 18:51	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 18:51	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 18:51	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 18:51	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/15/12 18:51	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52485.27 (continued)

Sample Tag: SB-A5.2-OA138_23-24

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 16:41	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/17/12 16:41	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 16:41	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/17/12 16:41	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/17/12 16:41	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	99-09-2	



Analytical Laboratory Report

Lab Sample ID: S52485.27 (continued)

Sample Tag: SB-A5.2-OA138_23-24

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 16:41	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 16:41	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52485.28
Sample Tag: SB-A5.2-OA138_23-24 MS
Collected Date/Time: 05/10/2012 15:23
Matrix: Soil
COC Reference: 67611

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 22:08	EMR		
Extraction, PCB	Completed			3550B	05/15/12 17:14	ADB		
Mercury Digestion	Completed			7471A	05/18/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/17/12 09:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	20.5	mg/kg	0.20	6020	05/17/12 12:38	PER	7440-36-0	
Arsenic	23.8	mg/kg	0.10	6020	05/17/12 12:38	PER	7440-38-2	
Barium	41.1	mg/kg	1.0	6020	05/17/12 12:38	PER	7440-39-3	
Beryllium	22.8	mg/kg	0.20	6020	05/17/12 12:38	PER	7440-41-7	
Boron	23.2	mg/kg	4.0	6020	05/17/12 12:38	PER	7440-42-8	
Cadmium	21.5	mg/kg	0.10	6020	05/17/12 12:38	PER	7440-43-9	
Chromium	24.6	mg/kg	0.20	6020	05/17/12 12:38	PER	7440-47-3	
Cobalt	23.6	mg/kg	0.20	6020	05/17/12 12:38	PER	7440-48-4	
Copper	27.7	mg/kg	0.20	6020	05/17/12 12:38	PER	7440-50-8	
Lead	22.7	mg/kg	0.20	6020	05/17/12 12:38	PER	7439-92-1	
Manganese	229	mg/kg	0.20	6020	05/17/12 12:38	PER	7439-96-5	
Mercury	0.1136	mg/kg	0.0055	7471A	05/18/12 13:40	JRT	7439-97-6	
Nickel	27.4	mg/kg	0.20	6020	05/17/12 12:38	PER	7440-02-0	
Selenium	20.2	mg/kg	0.20	6020	05/17/12 12:38	PER	7782-49-2	
Silver	19.6	mg/kg	0.10	6020	05/17/12 12:38	PER	7440-22-4	
Thallium	18.5	mg/kg	0.20	6020	05/17/12 12:38	PER	7440-28-0	
Vanadium	26.8	mg/kg	0.20	6020	05/17/12 12:38	PER	7440-62-2	
Zinc	36.4	mg/kg	1.0	6020	05/17/12 12:38	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	20	ug/kg	3	8082A	05/15/12 19:01	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 19:01	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 19:01	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 19:01	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 19:01	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 19:01	JANB	11097-69-1	
PCB-1260	30	ug/kg	3	8082A	05/15/12 19:01	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	1,640	ug/kg	40	8270C	05/17/12 17:14	PL	83-32-9	1
Acenaphthylene	1,690	ug/kg	40	8270C	05/17/12 17:14	PL	208-96-8	1

1-Sample spiked at 1.83 mg/kg



Analytical Laboratory Report

Lab Sample ID: S52485.28 (continued)
Sample Tag: SB-A5.2-OA138_23-24 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	1,520	ug/kg	40	8270C	05/17/12 17:14	PL	98-86-2	1
Anthracene	1,710	ug/kg	40	8270C	05/17/12 17:14	PL	120-12-7	1
Atrazine	1,820	ug/kg	40	8270C	05/17/12 17:14	PL	1912-24-9	1
1,1'-Biphenyl	1,760	ug/kg	40	8270C	05/17/12 17:14	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,710	ug/kg	40	8270C	05/17/12 17:14	PL	101-55-3	1
di-n-Butyl phthalate	1,750	ug/kg	70	8270C	05/17/12 17:14	PL	84-74-2	1
Benzaldehyde	1,310	ug/kg	40	8270C	05/17/12 17:14	PL	100-52-7	1
Benzo(a)anthracene	1,660	ug/kg	40	8270C	05/17/12 17:14	PL	56-55-3	1
Benzo(a)pyrene	1,530	ug/kg	40	8270C	05/17/12 17:14	PL	50-32-8	1
Benzo(b)fluoranthene	1,730	ug/kg	40	8270C	05/17/12 17:14	PL	205-99-2	1
Benzo(ghi)perylene	1,580	ug/kg	40	8270C	05/17/12 17:14	PL	191-24-2	1
Benzo(k)fluoranthene	1,600	ug/kg	40	8270C	05/17/12 17:14	PL	207-08-9	1
Butyl benzyl phthalate	1,660	ug/kg	40	8270C	05/17/12 17:14	PL	85-68-7	1
2-Chloronaphthalene	1,670	ug/kg	40	8270C	05/17/12 17:14	PL	91-58-7	1
2-Chlorophenol	1,550	ug/kg	40	8270C	05/17/12 17:14	PL	95-57-8	1
4-Chloro-3-methylphenol	1,660	ug/kg	40	8270C	05/17/12 17:14	PL	59-50-7	1
4-Chloroaniline	1,500	ug/kg	40	8270C	05/17/12 17:14	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,780	ug/kg	40	8270C	05/17/12 17:14	PL	7005-72-3	1
Caprolactam	1,720	ug/kg	40	8270C	05/17/12 17:14	PL	105-60-2	1
Carbazole	1,710	ug/kg	40	8270C	05/17/12 17:14	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,470	ug/kg	40	8270C	05/17/12 17:14	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,220	ug/kg	40	8270C	05/17/12 17:14	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,160	ug/kg	40	8270C	05/17/12 17:14	PL	108-60-1	1
Chrysene	1,710	ug/kg	40	8270C	05/17/12 17:14	PL	218-01-9	1
2,4-Dichlorophenol	1,790	ug/kg	40	8270C	05/17/12 17:14	PL	120-83-2	1
2,4-Dimethylphenol	1,570	ug/kg	40	8270C	05/17/12 17:14	PL	105-67-9	1
2,4-Dinitrophenol	730	ug/kg	40	8270C	05/17/12 17:14	PL	51-28-5	1
2,4-Dinitrotoluene	1,840	ug/kg	40	8270C	05/17/12 17:14	PL	121-14-2	1
2,6-Dinitrotoluene	1,820	ug/kg	40	8270C	05/17/12 17:14	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,780	ug/kg	40	8270C	05/17/12 17:14	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,380	ug/kg	40	8270C	05/17/12 17:14	PL	534-52-1	1
Dibenzo(ah)anthracene	1,570	ug/kg	70	8270C	05/17/12 17:14	PL	53-70-3	1
Dibenzofuran	1,780	ug/kg	40	8270C	05/17/12 17:14	PL	132-64-9	1
Diethyl phthalate	1,750	ug/kg	70	8270C	05/17/12 17:14	PL	84-66-2	1
Dimethyl phthalate	1,850	ug/kg	40	8270C	05/17/12 17:14	PL	131-11-3	1B
bis(2-Ethylhexyl)phthalate	1,740	ug/kg	70	8270C	05/17/12 17:14	PL	117-81-7	1
Fluoranthene	1,800	ug/kg	40	8270C	05/17/12 17:14	PL	206-44-0	1
Fluorene	1,750	ug/kg	40	8270C	05/17/12 17:14	PL	86-73-7	1
Hexachlorobenzene	1,610	ug/kg	40	8270C	05/17/12 17:14	PL	118-74-1	1
Hexachlorobutadiene	1,620	ug/kg	40	8270C	05/17/12 17:14	PL	87-68-3	1
Hexachlorocyclopentadiene	1,120	ug/kg	40	8270C	05/17/12 17:14	PL	77-47-4	1
Hexachloroethane	1,280	ug/kg	40	8270C	05/17/12 17:14	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,590	ug/kg	40	8270C	05/17/12 17:14	PL	193-39-5	1
Isophorone	1,410	ug/kg	40	8270C	05/17/12 17:14	PL	78-59-1	1
2-Methylnaphthalene	1,610	ug/kg	40	8270C	05/17/12 17:14	PL	91-57-6	1
2-Methylphenol	1,470	ug/kg	40	8270C	05/17/12 17:14	PL	95-48-7	1
3-, 4-Methylphenol	3,030	ug/kg	70	8270C	05/17/12 17:14	PL	3/4-Cresol	1

1-Sample spiked at 1.83 mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52485.28 (continued)
Sample Tag: SB-A5.2-OA138_23-24 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	1,740	ug/kg	40	8270C	05/17/12 17:14	PL	88-74-4	1
2-Nitrophenol	1,680	ug/kg	40	8270C	05/17/12 17:14	PL	88-75-5	1
3-Nitroaniline	1,590	ug/kg	40	8270C	05/17/12 17:14	PL	99-09-2	1
4-Nitroaniline	1,790	ug/kg	40	8270C	05/17/12 17:14	PL	100-01-6	1
4-Nitrophenol	1,370	ug/kg	40	8270C	05/17/12 17:14	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,320	ug/kg	40	8270C	05/17/12 17:14	PL	621-64-7	1
N-Nitrosodiphenylamine	1,510	ug/kg	40	8270C	05/17/12 17:14	PL	86-30-6	1
Naphthalene	1,570	ug/kg	40	8270C	05/17/12 17:14	PL	91-20-3	1
Nitrobenzene	1,490	ug/kg	40	8270C	05/17/12 17:14	PL	98-95-3	1
di-n-Octyl phthalate	1,750	ug/kg	70	8270C	05/17/12 17:14	PL	117-84-0	1
Pentachlorophenol	1,270	ug/kg	40	8270C	05/17/12 17:14	PL	87-86-5	1
Phenanthrene	1,670	ug/kg	40	8270C	05/17/12 17:14	PL	85-01-8	1
Phenol	1,450	ug/kg	40	8270C	05/17/12 17:14	PL	108-95-2	1
Pyrene	1,700	ug/kg	40	8270C	05/17/12 17:14	PL	129-00-0	1
2,4,5-Trichlorophenol	1,940	ug/kg	40	8270C	05/17/12 17:14	PL	95-95-4	1
2,4,6-Trichlorophenol	1,890	ug/kg	40	8270C	05/17/12 17:14	PL	88-06-2	1

1-Sample spiked at 1.83 mg/kg



Analytical Laboratory Report

Lab Sample ID: S52485.29

Sample Tag: SB-A5.2-OA138_23-24 MSD

Collected Date/Time: 05/10/2012 15:23

Matrix: Soil

COC Reference: 67611

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 22:08	EMR		
Extraction, PCB	Completed			3550B	05/15/12 17:14	ADB		
Mercury Digestion	Completed			7471A	05/18/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/17/12 09:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	21.0	mg/kg	0.20	6020	05/17/12 12:50	PER	7440-36-0	
Arsenic	24.8	mg/kg	0.10	6020	05/17/12 12:50	PER	7440-38-2	
Barium	41.7	mg/kg	1.0	6020	05/17/12 12:50	PER	7440-39-3	
Beryllium	22.2	mg/kg	0.20	6020	05/17/12 12:50	PER	7440-41-7	
Boron	22.8	mg/kg	4.0	6020	05/17/12 12:50	PER	7440-42-8	
Cadmium	21.8	mg/kg	0.10	6020	05/17/12 12:50	PER	7440-43-9	
Chromium	24.8	mg/kg	0.20	6020	05/17/12 12:50	PER	7440-47-3	
Cobalt	23.8	mg/kg	0.20	6020	05/17/12 12:50	PER	7440-48-4	
Copper	28.0	mg/kg	0.20	6020	05/17/12 12:50	PER	7440-50-8	
Lead	22.5	mg/kg	0.20	6020	05/17/12 12:50	PER	7439-92-1	
Manganese	232	mg/kg	0.20	6020	05/17/12 12:50	PER	7439-96-5	
Mercury	0.1126	mg/kg	0.0055	7471A	05/18/12 13:42	JRT	7439-97-6	
Nickel	27.7	mg/kg	0.20	6020	05/17/12 12:50	PER	7440-02-0	
Selenium	21.1	mg/kg	0.20	6020	05/17/12 12:50	PER	7782-49-2	
Silver	20.1	mg/kg	0.10	6020	05/17/12 12:50	PER	7440-22-4	
Thallium	18.4	mg/kg	0.20	6020	05/17/12 12:50	PER	7440-28-0	
Vanadium	27.5	mg/kg	0.20	6020	05/17/12 12:50	PER	7440-62-2	
Zinc	37.4	mg/kg	1.0	6020	05/17/12 12:50	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	30	ug/kg	3	8082A	05/15/12 19:12	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/15/12 19:12	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/15/12 19:12	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/15/12 19:12	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/15/12 19:12	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/15/12 19:12	JANB	11097-69-1	
PCB-1260	30	ug/kg	3	8082A	05/15/12 19:12	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	1,340	ug/kg	40	8270C	05/17/12 17:48	PL	83-32-9	1
Acenaphthylene	1,390	ug/kg	40	8270C	05/17/12 17:48	PL	208-96-8	1

1-Sample spiked at 1.83 mg/kg



Analytical Laboratory Report

Lab Sample ID: S52485.29 (continued)

Sample Tag: SB-A5.2-OA138_23-24 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	1,210	ug/kg	40	8270C	05/17/12 17:48	PL	98-86-2	1
Anthracene	1,430	ug/kg	40	8270C	05/17/12 17:48	PL	120-12-7	1
Atrazine	1,540	ug/kg	40	8270C	05/17/12 17:48	PL	1912-24-9	1
1,1'-Biphenyl	1,430	ug/kg	40	8270C	05/17/12 17:48	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,430	ug/kg	40	8270C	05/17/12 17:48	PL	101-55-3	1
di-n-Butyl phthalate	1,470	ug/kg	70	8270C	05/17/12 17:48	PL	84-74-2	1
Benzaldehyde	1,030	ug/kg	40	8270C	05/17/12 17:48	PL	100-52-7	1
Benzo(a)anthracene	1,390	ug/kg	40	8270C	05/17/12 17:48	PL	56-55-3	1
Benzo(a)pyrene	1,270	ug/kg	40	8270C	05/17/12 17:48	PL	50-32-8	1
Benzo(b)fluoranthene	1,440	ug/kg	40	8270C	05/17/12 17:48	PL	205-99-2	1
Benzo(ghi)perylene	1,270	ug/kg	40	8270C	05/17/12 17:48	PL	191-24-2	1
Benzo(k)fluoranthene	1,350	ug/kg	40	8270C	05/17/12 17:48	PL	207-08-9	1
Butyl benzyl phthalate	1,390	ug/kg	40	8270C	05/17/12 17:48	PL	85-68-7	1
2-Chloronaphthalene	1,360	ug/kg	40	8270C	05/17/12 17:48	PL	91-58-7	1
2-Chlorophenol	1,230	ug/kg	40	8270C	05/17/12 17:48	PL	95-57-8	1
4-Chloro-3-methylphenol	1,390	ug/kg	40	8270C	05/17/12 17:48	PL	59-50-7	1
4-Chloroaniline	1,240	ug/kg	40	8270C	05/17/12 17:48	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,480	ug/kg	40	8270C	05/17/12 17:48	PL	7005-72-3	1
Caprolactam	1,480	ug/kg	40	8270C	05/17/12 17:48	PL	105-60-2	1
Carbazole	1,450	ug/kg	40	8270C	05/17/12 17:48	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,180	ug/kg	40	8270C	05/17/12 17:48	PL	111-91-1	1
bis(2-Chloroethyl)ether	970	ug/kg	40	8270C	05/17/12 17:48	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	920	ug/kg	40	8270C	05/17/12 17:48	PL	108-60-1	1
Chrysene	1,440	ug/kg	40	8270C	05/17/12 17:48	PL	218-01-9	1
2,4-Dichlorophenol	1,460	ug/kg	40	8270C	05/17/12 17:48	PL	120-83-2	1
2,4-Dimethylphenol	1,300	ug/kg	40	8270C	05/17/12 17:48	PL	105-67-9	1
2,4-Dinitrophenol	580	ug/kg	40	8270C	05/17/12 17:48	PL	51-28-5	1
2,4-Dinitrotoluene	1,530	ug/kg	40	8270C	05/17/12 17:48	PL	121-14-2	1
2,6-Dinitrotoluene	1,500	ug/kg	40	8270C	05/17/12 17:48	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,540	ug/kg	40	8270C	05/17/12 17:48	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,160	ug/kg	40	8270C	05/17/12 17:48	PL	534-52-1	1
Dibenzo(ah)anthracene	1,290	ug/kg	70	8270C	05/17/12 17:48	PL	53-70-3	1
Dibenzofuran	1,460	ug/kg	40	8270C	05/17/12 17:48	PL	132-64-9	1
Diethyl phthalate	1,470	ug/kg	70	8270C	05/17/12 17:48	PL	84-66-2	1
Dimethyl phthalate	1,530	ug/kg	40	8270C	05/17/12 17:48	PL	131-11-3	1B
bis(2-Ethylhexyl)phthalate	1,450	ug/kg	70	8270C	05/17/12 17:48	PL	117-81-7	1
Fluoranthene	1,510	ug/kg	40	8270C	05/17/12 17:48	PL	206-44-0	1
Fluorene	1,470	ug/kg	40	8270C	05/17/12 17:48	PL	86-73-7	1
Hexachlorobenzene	1,360	ug/kg	40	8270C	05/17/12 17:48	PL	118-74-1	1
Hexachlorobutadiene	1,290	ug/kg	40	8270C	05/17/12 17:48	PL	87-68-3	1
Hexachlorocyclopentadiene	780	ug/kg	40	8270C	05/17/12 17:48	PL	77-47-4	1
Hexachloroethane	1,010	ug/kg	40	8270C	05/17/12 17:48	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,290	ug/kg	40	8270C	05/17/12 17:48	PL	193-39-5	1
Isophorone	1,140	ug/kg	40	8270C	05/17/12 17:48	PL	78-59-1	1
2-Methylnaphthalene	1,290	ug/kg	40	8270C	05/17/12 17:48	PL	91-57-6	1
2-Methylphenol	1,190	ug/kg	40	8270C	05/17/12 17:48	PL	95-48-7	1
3-, 4-Methylphenol	2,450	ug/kg	70	8270C	05/17/12 17:48	PL	3/4-Cresol	1

1-Sample spiked at 1.83 mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52485.29 (continued)

Sample Tag: SB-A5.2-OA138_23-24 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	1,450	ug/kg	40	8270C	05/17/12 17:48	PL	88-74-4	1
2-Nitrophenol	1,360	ug/kg	40	8270C	05/17/12 17:48	PL	88-75-5	1
3-Nitroaniline	1,360	ug/kg	40	8270C	05/17/12 17:48	PL	99-09-2	1
4-Nitroaniline	1,530	ug/kg	40	8270C	05/17/12 17:48	PL	100-01-6	1
4-Nitrophenol	1,160	ug/kg	40	8270C	05/17/12 17:48	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,050	ug/kg	40	8270C	05/17/12 17:48	PL	621-64-7	1
N-Nitrosodiphenylamine	1,260	ug/kg	40	8270C	05/17/12 17:48	PL	86-30-6	1
Naphthalene	1,270	ug/kg	40	8270C	05/17/12 17:48	PL	91-20-3	1
Nitrobenzene	1,220	ug/kg	40	8270C	05/17/12 17:48	PL	98-95-3	1
di-n-Octyl phthalate	1,460	ug/kg	70	8270C	05/17/12 17:48	PL	117-84-0	1
Pentachlorophenol	1,020	ug/kg	40	8270C	05/17/12 17:48	PL	87-86-5	1
Phenanthrene	1,400	ug/kg	40	8270C	05/17/12 17:48	PL	85-01-8	1
Phenol	1,160	ug/kg	40	8270C	05/17/12 17:48	PL	108-95-2	1
Pyrene	1,430	ug/kg	40	8270C	05/17/12 17:48	PL	129-00-0	1
2,4,5-Trichlorophenol	1,610	ug/kg	40	8270C	05/17/12 17:48	PL	95-95-4	1
2,4,6-Trichlorophenol	1,570	ug/kg	40	8270C	05/17/12 17:48	PL	88-06-2	1

1-Sample spiked at 1.83 mg/kg



Analytical Laboratory Report

Lab Sample ID: S52485.30

Sample Tag: Trip Blank

Collected Date/Time: 05/10/2012 00:01

Matrix: Water

COC Reference: 67611

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				05/14/12 11:45	ASB		



Analytical Laboratory Report

Lab Sample ID: S52485.31
Sample Tag: SB-A5.2-Dup24
Collected Date/Time: 05/10/2012 00:01
Matrix: Soil
COC Reference: 67611

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 13:23	CCM		
Extraction, PCB	Completed			3550B	05/15/12 17:14	ADB		
Mercury Digestion	Completed			7471A	05/18/12 09:00	JRH		
Metal Digestion	Completed			3050B	05/17/12 11:00	PER		

Inorganics

Total Solids	85	%	1	Std M 2540 B	05/14/12 13:30	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 14:41	PER	7440-36-0	
Arsenic	0.34	mg/kg	0.10	6020	05/17/12 14:41	PER	7440-38-2	
Barium	41.6	mg/kg	1.0	6020	05/17/12 14:41	PER	7440-39-3	
Beryllium	0.27	mg/kg	0.20	6020	05/17/12 14:41	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 14:41	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	05/17/12 14:41	PER	7440-43-9	
Chromium	3.25	mg/kg	0.20	6020	05/17/12 14:41	PER	7440-47-3	
Cobalt	1.27	mg/kg	0.20	6020	05/17/12 14:41	PER	7440-48-4	
Copper	8.16	mg/kg	0.20	6020	05/17/12 14:41	PER	7440-50-8	
Lead	10.6	mg/kg	0.20	6020	05/17/12 14:41	PER	7439-92-1	
Manganese	104	mg/kg	0.20	6020	05/17/12 14:41	PER	7439-96-5	
Mercury	0.0317	mg/kg	0.0059	7471A	05/18/12 14:07	JRT	7439-97-6	
Nickel	2.94	mg/kg	0.20	6020	05/17/12 14:41	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 14:41	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 14:41	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 14:41	PER	7440-28-0	
Vanadium	6.60	mg/kg	0.20	6020	05/17/12 14:41	PER	7440-62-2	
Zinc	9.28	mg/kg	1.0	6020	05/17/12 14:41	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/16/12 15:34	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/16/12 15:34	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/16/12 15:34	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/16/12 15:34	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/16/12 15:34	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/16/12 15:34	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/16/12 15:34	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52485.31 (continued)

Sample Tag: SB-A5.2-Dup24

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 23:28	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/17/12 23:28	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 23:28	PL	84-66-2	
Dimethyl phthalate	210	ug/kg	40	8270C	05/17/12 23:28	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/17/12 23:28	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/17/12 23:28	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52485.31 (continued)

Sample Tag: SB-A5.2-Dup24

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 23:28	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 23:28	PL	88-06-2	



2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 3

67615

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME				Randy Christensen			
COMPANY				ARCADIS			
ADDRESS							
10559 Citation Drive Suite 100							
CITY						STATE	ZIP CODE
Brighton						MI	48116
PHONE NO.			FAX NO.			P.O. NO.	
810-225-1910			-			PO125047	
E-MAIL ADDRESS						QUOTE NO.	
randy.christensen@arcadis-us.com						Task#: 5	

CONTACT NAME		Dave Favero		☐ SAME	
COMPANY		RACER TRUST			
ADDRESS		2930 Ecorse Road			
CITY		Ypsilanti		STATE	MI
				ZIP CODE	48198
PHONE NO.		E-MAIL ADDRESS			
313-486-9208		dfavero@racetrust.org			

PROJECT NO./NAME Lansing Plant 2 Project# B0064479.2012		SAMPLER(S) - PLEASE PRINT/SIGN NAME Meryl Hicks
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER _____		
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____		

MATRIX	GW=GROUNDWATER	WW=WASTEWATER	S=SOIL	L=LIQUID	SD=SOLID
CODE:	SL=SLUDGE	DW=DRINKING WATER	O=OIL	WP=WIPE	A=AIR
					W=WASTE

[illegible]

52455.01	5/10/12	0850	VAP-A5.3-OV159_4-5	GW	4
.02	5/10/12	0940	VAP-A5.3-OV159_7-8	S	1
.03	5/10/12	1020	VAP-A5.3-OV159_12-13	S	1
.04	5/10/12	1040	VAP-A5.3-OV159_17-18	S	1
.05	5/10/12	1055	VAP-A5.3-OV159_22-23	S	1
.06	5/10/12	1110	VAP-A5.3-OV159_26-27	S	1
.07	5/10/12	1210	VAP-A5.3-OV159_31-32	S	1
.08	5/10/12	1300	VAP-A5.3-OV159_36-37	S	1
.09	5/10/12	1350	VAP-A5.3-OV159_41-42	S	1
.10	5/10/12	1420	VAP-A5.3-OV159_46-47	S	1
.11	5/10/12	1645	VAP-A5.1-MT115- 100 4-5	S	1
.12	5/10/12	---	VAP-A5.3- 00159 Dur 23	S	1

[illegible]

RELINQUISHED BY:	<i>Ante W. H. PARADES</i>	☒ Exemplar	DATE	TIME
SIGNATURE/ORGANIZATION			5/11/12	8:40
RELINQUISHED BY:	<i>FW MONT</i>		DATE	TIME
SIGNATURE/ORGANIZATION			5-11-12	8:40
RELINQUISHED BY:			DATE	TIME
SIGNATURE/ORGANIZATION				
RELINQUISHED BY:			DATE	TIME
SIGNATURE/ORGANIZATION				

RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES:	TEMP. ON ARRIVAL
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1.15.1



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2 OF 3

67619

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

HOLD VOCs for 1,4-Diox
PLBS, SUBCS, Metals Field
Field no

Rev. 1.15.12



Analytical Laboratory Report

Supplemental Report

Report ID: S52499.01(02)

Generated on 05/25/2012

Replaces report S52499.01(01) generated on 05/23/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52499.01-S52499.24

Project: Lansing Plant #2 Project# B0064479.2012

Collected Date: 05/11/2012

Submitted Date/Time: 05/11/2012 16:45

Sampled by: Meryl Hicks/ AW

P.O. #: PO125047

1,4-Dioxane SIMs added to samples .10 and .15

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Supplemental Report

Sample Summary (24 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52499.01	SB-A17_DH145_0-1	Soil	05/11/2012 08:30
S52499.02	SB-A17_DH145_4-5	Soil	05/11/2012 08:40
S52499.03	SB-A17_DH145_10-11	Soil	05/11/2012 09:00
S52499.04	SB-A17_DH145_16-17	Soil	05/11/2012 09:10
S52499.05	SB-A17_DH145_22-23	Soil	05/11/2012 09:27
S52499.06	SB-A17_DH145_28-29	Soil	05/11/2012 09:45
S52499.07	SB-A17_DH145_28-29 MS	Soil	05/11/2012 09:45
S52499.08	SB-A17_DH145_28-29 MSD	Soil	05/11/2012 09:45
S52499.09	SB-A17_DF146_1-2	Soil	05/11/2012 10:33
S52499.10	SB-A17_DF146_5-9	Groundwater	05/11/2012 11:20
S52499.11	SB-A17_DF146_11-12	Soil	05/11/2012 13:10
S52499.12	SB-A17_DF142_1-2	Soil	05/11/2012 13:30
S52499.13	SB-A17_DC142_1-2	Soil	05/11/2012 14:05
S52499.14	SB-A17_DUP25	Soil	05/11/2012 00:01
S52499.15	SB-A17_DC142_3-7	Groundwater	05/11/2012 15:05
S52499.16	VAP-A5.1-MT115_11-12	Soil	05/11/2012 09:00
S52499.17	VAP-A5.1-MT115_12.5-13.5	Groundwater	05/11/2012 09:45
S52499.18	VAP-A5.1-MT115_12.5-13.5 MS	Groundwater	05/11/2012 09:45
S52499.19	VAP-A5.1-MT115_12.5-13.5 MSD	Groundwater	05/11/2012 09:45
S52499.20	VAP-A5.1-MT115_19-20	Groundwater	05/11/2012 11:35
S52499.21	VAP-A5.1-MT115_25-26	Groundwater	05/11/2012 13:50
S52499.22	Trip Blank	Groundwater	05/11/2012 00:01
S52499.23	VAP-A5.1-DUP28	Groundwater	05/11/2012 00:01
S52499.24	VAP-A5.1-DUP27	Soil	05/11/2012 00:01



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.01
Sample Tag: SB-A17_DH145_0-1
Collected Date/Time: 05/11/2012 08:30
Matrix: Soil
COC Reference: 67635

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 22:08	EMR		
Extraction, PCB	Completed			3550B	05/16/12 10:25	CCM		
Mercury Digestion	Completed			7471A	05/18/12 11:45	JRH		
Metal Digestion	Completed			3050B	05/17/12 11:00	PER		

Inorganics

Total Solids	94	%	1	Std M 2540 B	05/15/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 14:55	PER	7440-36-0	
Arsenic	0.91	mg/kg	0.10	6020	05/17/12 14:55	PER	7440-38-2	
Barium	9.67	mg/kg	1.0	6020	05/17/12 14:55	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 14:55	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 14:55	PER	7440-42-8	
Cadmium	0.12	mg/kg	0.10	6020	05/17/12 14:55	PER	7440-43-9	
Chromium	1.74	mg/kg	0.20	6020	05/17/12 14:55	PER	7440-47-3	
Cobalt	2.15	mg/kg	0.20	6020	05/17/12 14:55	PER	7440-48-4	
Copper	7.01	mg/kg	0.20	6020	05/17/12 14:55	PER	7440-50-8	
Lead	5.56	mg/kg	0.20	6020	05/17/12 14:55	PER	7439-92-1	
Manganese	171	mg/kg	0.20	6020	05/17/12 14:55	PER	7439-96-5	
Mercury	0.0129	mg/kg	0.0054	7471A	05/18/12 14:18	JRT	7439-97-6	
Nickel	4.24	mg/kg	0.20	6020	05/17/12 14:55	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 14:55	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 14:55	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 14:55	PER	7440-28-0	
Vanadium	2.02	mg/kg	0.20	6020	05/17/12 14:55	PER	7440-62-2	
Zinc	7.73	mg/kg	1.0	6020	05/17/12 14:55	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/17/12 13:11	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/17/12 13:11	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/17/12 13:11	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/17/12 13:11	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/17/12 13:11	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/17/12 13:11	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/17/12 13:11	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	100	ug/kg	100	8270C	05/18/12 01:43	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	208-96-8	
Acetophenone	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	98-86-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.01 (continued)

Sample Tag: SB-A17_DH145_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	400	ug/kg	100	8270C	05/18/12 01:43	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	8270C	05/18/12 01:43	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	100-52-7	
Benzo(a)anthracene	1,400	ug/kg	100	8270C	05/18/12 01:43	PL	56-55-3	
Benzo(a)pyrene	1,400	ug/kg	100	8270C	05/18/12 01:43	PL	50-32-8	
Benzo(b)fluoranthene	2,900	ug/kg	100	8270C	05/18/12 01:43	PL	205-99-2	p
Benzo(ghi)perylene	600	ug/kg	100	8270C	05/18/12 01:43	PL	191-24-2	
Benzo(k)fluoranthene	2,900	ug/kg	100	8270C	05/18/12 01:43	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	105-60-2	
Carbazole	300	ug/kg	100	8270C	05/18/12 01:43	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	108-60-1	
Chrysene	1,700	ug/kg	100	8270C	05/18/12 01:43	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	8270C	05/18/12 01:43	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	8270C	05/18/12 01:43	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	8270C	05/18/12 01:43	PL	117-81-7	
Fluoranthene	3,500	ug/kg	100	8270C	05/18/12 01:43	PL	206-44-0	
Fluorene	100	ug/kg	100	8270C	05/18/12 01:43	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	600	ug/kg	100	8270C	05/18/12 01:43	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	8270C	05/18/12 01:43	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	88-75-5	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.01 (continued)

Sample Tag: SB-A17_DH145_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	86-30-6	
Naphthalene	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	8270C	05/18/12 01:43	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	87-86-5	
Phenanthrene	1,700	ug/kg	100	8270C	05/18/12 01:43	PL	85-01-8	
Phenol	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	108-95-2	
Pyrene	2,900	ug/kg	100	8270C	05/18/12 01:43	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	100	8270C	05/18/12 01:43	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.02
Sample Tag: SB-A17_DH145_4-5
Collected Date/Time: 05/11/2012 08:40
Matrix: Soil
COC Reference: 67635

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 22:08	EMR		
Extraction, PCB	Completed			3550B	05/16/12 10:25	CCM		
Mercury Digestion	Completed			7471A	05/18/12 11:45	JRH		
Metal Digestion	Completed			3050B	05/17/12 11:00	PER		

Inorganics

Total Solids	85	%	1	Std M 2540 B	05/15/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 14:57	PER	7440-36-0	
Arsenic	1.02	mg/kg	0.10	6020	05/17/12 14:57	PER	7440-38-2	
Barium	14.6	mg/kg	1.0	6020	05/17/12 14:57	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 14:57	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 14:57	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 14:57	PER	7440-43-9	
Chromium	1.82	mg/kg	0.20	6020	05/17/12 14:57	PER	7440-47-3	
Cobalt	2.47	mg/kg	0.20	6020	05/17/12 14:57	PER	7440-48-4	
Copper	3.83	mg/kg	0.20	6020	05/17/12 14:57	PER	7440-50-8	
Lead	2.70	mg/kg	0.20	6020	05/17/12 14:57	PER	7439-92-1	
Manganese	172	mg/kg	0.20	6020	05/17/12 14:57	PER	7439-96-5	
Mercury	0.0065	mg/kg	0.0058	7471A	05/18/12 14:21	JRT	7439-97-6	
Nickel	5.01	mg/kg	0.20	6020	05/17/12 14:57	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 14:57	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 14:57	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 14:57	PER	7440-28-0	
Vanadium	3.18	mg/kg	0.20	6020	05/17/12 14:57	PER	7440-62-2	
Zinc	6.16	mg/kg	1.0	6020	05/17/12 14:57	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/17/12 13:22	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/17/12 13:22	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/17/12 13:22	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/17/12 13:22	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/17/12 13:22	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/17/12 13:22	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/17/12 13:22	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	208-96-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.02 (continued)

Sample Tag: SB-A17_DH145_4-5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	98-86-2	X
Anthracene	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	120-12-7	X
Atrazine	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	800	8270C	05/18/12 01:09	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	105-60-2	X
Carbazole	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	108-60-1	X
Chrysene	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	800	8270C	05/18/12 01:09	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	800	8270C	05/18/12 01:09	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	800	8270C	05/18/12 01:09	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	206-44-0	X
Fluorene	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	193-39-5	X
Isophorone	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	800	8270C	05/18/12 01:09	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	88-74-4	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.02 (continued)

Sample Tag: SB-A17_DH145_4-5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	800	8270C	05/18/12 01:09	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	85-01-8	X
Phenol	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	108-95-2	X
Pyrene	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	400	8270C	05/18/12 01:09	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.03
Sample Tag: SB-A17_DH145_10-11
Collected Date/Time: 05/11/2012 09:00
Matrix: Soil
COC Reference: 67635

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 22:08	EMR		
Extraction, PCB	Completed			3550B	05/16/12 10:25	CCM		
Mercury Digestion	Completed			7471A	05/18/12 11:45	JRH		
Metal Digestion	Completed			3050B	05/17/12 11:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/15/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 15:00	PER	7440-36-0	
Arsenic	1.77	mg/kg	0.10	6020	05/17/12 15:00	PER	7440-38-2	
Barium	14.4	mg/kg	1.0	6020	05/17/12 15:00	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 15:00	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 15:00	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 15:00	PER	7440-43-9	
Chromium	2.49	mg/kg	0.20	6020	05/17/12 15:00	PER	7440-47-3	
Cobalt	2.30	mg/kg	0.20	6020	05/17/12 15:00	PER	7440-48-4	
Copper	6.84	mg/kg	0.20	6020	05/17/12 15:00	PER	7440-50-8	
Lead	3.44	mg/kg	0.20	6020	05/17/12 15:00	PER	7439-92-1	
Manganese	217	mg/kg	0.20	6020	05/17/12 15:00	PER	7439-96-5	
Mercury	0.0080	mg/kg	0.0055	7471A	05/18/12 14:23	JRT	7439-97-6	
Nickel	7.32	mg/kg	0.20	6020	05/17/12 15:00	PER	7440-02-0	
Selenium	0.25	mg/kg	0.20	6020	05/17/12 15:00	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 15:00	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 15:00	PER	7440-28-0	
Vanadium	3.93	mg/kg	0.20	6020	05/17/12 15:00	PER	7440-62-2	
Zinc	10.1	mg/kg	1.0	6020	05/17/12 15:00	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/16/12 17:19	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/16/12 17:19	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/16/12 17:19	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/16/12 17:19	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/16/12 17:19	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/16/12 17:19	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/16/12 17:19	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	98-86-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.03 (continued)

Sample Tag: SB-A17_DH145_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 18:23	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/17/12 18:23	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 18:23	PL	84-66-2	
Dimethyl phthalate	170	ug/kg	40	8270C	05/17/12 18:23	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/17/12 18:23	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/17/12 18:23	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.03 (continued)

Sample Tag: SB-A17_DH145_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 18:23	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 18:23	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.04
Sample Tag: SB-A17_DH145_16-17
Collected Date/Time: 05/11/2012 09:10
Matrix: Soil
COC Reference: 67635

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 22:08	EMR		
Extraction, PCB	Completed			3550B	05/16/12 10:25	CCM		
Mercury Digestion	Completed			7471A	05/18/12 11:45	JRH		
Metal Digestion	Completed			3050B	05/17/12 11:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/15/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 15:02	PER	7440-36-0	
Arsenic	0.68	mg/kg	0.10	6020	05/17/12 15:02	PER	7440-38-2	
Barium	9.08	mg/kg	1.0	6020	05/17/12 15:02	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 15:02	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 15:02	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 15:02	PER	7440-43-9	
Chromium	1.30	mg/kg	0.20	6020	05/17/12 15:02	PER	7440-47-3	
Cobalt	0.78	mg/kg	0.20	6020	05/17/12 15:02	PER	7440-48-4	
Copper	2.37	mg/kg	0.20	6020	05/17/12 15:02	PER	7440-50-8	
Lead	1.26	mg/kg	0.20	6020	05/17/12 15:02	PER	7439-92-1	
Manganese	119	mg/kg	0.20	6020	05/17/12 15:02	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0056	7471A	05/18/12 14:25	JRT	7439-97-6	
Nickel	3.77	mg/kg	0.20	6020	05/17/12 15:02	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 15:02	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 15:02	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 15:02	PER	7440-28-0	
Vanadium	1.99	mg/kg	0.20	6020	05/17/12 15:02	PER	7440-62-2	
Zinc	3.64	mg/kg	1.0	6020	05/17/12 15:02	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/16/12 17:29	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/16/12 17:29	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/16/12 17:29	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/16/12 17:29	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/16/12 17:29	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/16/12 17:29	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/16/12 17:29	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	98-86-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.04 (continued)

Sample Tag: SB-A17_DH145_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 18:57	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/17/12 18:57	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 18:57	PL	84-66-2	
Dimethyl phthalate	70	ug/kg	40	8270C	05/17/12 18:57	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/17/12 18:57	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/17/12 18:57	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.04 (continued)

Sample Tag: SB-A17_DH145_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 18:57	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 18:57	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.05
Sample Tag: SB-A17_DH145_22-23
Collected Date/Time: 05/11/2012 09:27
Matrix: Soil
COC Reference: 67635

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 22:08	EMR		
Extraction, PCB	Completed			3550B	05/16/12 10:25	CCM		
Mercury Digestion	Completed			7471A	05/18/12 11:45	JRH		
Metal Digestion	Completed			3050B	05/17/12 11:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/15/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 15:04	PER	7440-36-0	
Arsenic	1.73	mg/kg	0.10	6020	05/17/12 15:04	PER	7440-38-2	
Barium	14.5	mg/kg	1.0	6020	05/17/12 15:04	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 15:04	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 15:04	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 15:04	PER	7440-43-9	
Chromium	2.36	mg/kg	0.20	6020	05/17/12 15:04	PER	7440-47-3	
Cobalt	2.04	mg/kg	0.20	6020	05/17/12 15:04	PER	7440-48-4	
Copper	6.37	mg/kg	0.20	6020	05/17/12 15:04	PER	7440-50-8	
Lead	3.13	mg/kg	0.20	6020	05/17/12 15:04	PER	7439-92-1	
Manganese	246	mg/kg	0.20	6020	05/17/12 15:04	PER	7439-96-5	
Mercury	0.0087	mg/kg	0.0054	7471A	05/18/12 14:27	JRT	7439-97-6	
Nickel	6.86	mg/kg	0.20	6020	05/17/12 15:04	PER	7440-02-0	
Selenium	0.26	mg/kg	0.20	6020	05/17/12 15:04	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 15:04	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 15:04	PER	7440-28-0	
Vanadium	3.59	mg/kg	0.20	6020	05/17/12 15:04	PER	7440-62-2	
Zinc	11.2	mg/kg	1.0	6020	05/17/12 15:04	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/16/12 17:40	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/16/12 17:40	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/16/12 17:40	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/16/12 17:40	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/16/12 17:40	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/16/12 17:40	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/16/12 17:40	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	98-86-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.05 (continued)

Sample Tag: SB-A17_DH145_22-23

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 19:31	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/17/12 19:31	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 19:31	PL	84-66-2	
Dimethyl phthalate	40	ug/kg	40	8270C	05/17/12 19:31	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/17/12 19:31	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/17/12 19:31	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.05 (continued)

Sample Tag: SB-A17_DH145_22-23

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 19:31	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 19:31	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.06
Sample Tag: SB-A17_DH145_28-29
Collected Date/Time: 05/11/2012 09:45
Matrix: Soil
COC Reference: 67635

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 22:08	EMR		
Extraction, PCB	Completed			3550B	05/16/12 10:25	CCM		
Mercury Digestion	Completed			7471A	05/18/12 11:45	JRH		
Metal Digestion	Completed			3050B	05/17/12 11:00	PER		

Inorganics

Total Solids	99	%	1	Std M 2540 B	05/15/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 13:56	PER	7440-36-0	
Arsenic	0.43	mg/kg	0.10	6020	05/17/12 13:56	PER	7440-38-2	
Barium	3.16	mg/kg	1.0	6020	05/17/12 13:56	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 13:56	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 13:56	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 13:56	PER	7440-43-9	
Chromium	0.88	mg/kg	0.20	6020	05/17/12 13:56	PER	7440-47-3	
Cobalt	0.54	mg/kg	0.20	6020	05/17/12 13:56	PER	7440-48-4	
Copper	1.92	mg/kg	0.20	6020	05/17/12 13:56	PER	7440-50-8	
Lead	1.09	mg/kg	0.20	6020	05/17/12 13:56	PER	7439-92-1	
Manganese	82.0	mg/kg	0.20	6020	05/17/12 13:56	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0050	7471A	05/18/12 14:30	JRT	7439-97-6	
Nickel	3.08	mg/kg	0.20	6020	05/17/12 13:56	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 13:56	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 13:56	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 13:56	PER	7440-28-0	
Vanadium	1.00	mg/kg	0.20	6020	05/17/12 13:56	PER	7440-62-2	
Zinc	3.37	mg/kg	1.0	6020	05/17/12 13:56	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/16/12 14:15	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/16/12 14:15	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/16/12 14:15	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/16/12 14:15	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/16/12 14:15	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/16/12 14:15	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/16/12 14:15	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	208-96-8	
Acetophenone	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	98-86-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.06 (continued)

Sample Tag: SB-A17_DH145_28-29

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	120-12-7	
Atrazine	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 20:04	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	105-60-2	
Carbazole	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	108-60-1	
Chrysene	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/17/12 20:04	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 20:04	PL	84-66-2	
Dimethyl phthalate	100	ug/kg	30	8270C	05/17/12 20:04	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/17/12 20:04	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	206-44-0	
Fluorene	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	193-39-5	
Isophorone	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/17/12 20:04	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.06 (continued)

Sample Tag: SB-A17_DH145_28-29

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	86-30-6	
Naphthalene	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 20:04	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	85-01-8	
Phenol	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	108-95-2	
Pyrene	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	30	8270C	05/17/12 20:04	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.07

Sample Tag: SB-A17_DH145_28-29 MS

Collected Date/Time: 05/11/2012 09:45

Matrix: Soil

COC Reference: 67635

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 22:08	EMR		
Extraction, PCB	Completed			3550B	05/16/12 10:25	CCM		
Mercury Digestion	Completed			7471A	05/18/12 11:45	JRH		
Metal Digestion	Completed			3050B	05/17/12 11:00	PER		

Inorganics

Total Solids	99	%	1	Std M 2540 B	05/15/12 15:00	RGS		
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Metals

Antimony	19.7	mg/kg	0.20	6020	05/17/12 14:06	PER	7440-36-0	
Arsenic	22.1	mg/kg	0.10	6020	05/17/12 14:06	PER	7440-38-2	
Barium	22.6	mg/kg	1.0	6020	05/17/12 14:06	PER	7440-39-3	
Beryllium	20.0	mg/kg	0.20	6020	05/17/12 14:06	PER	7440-41-7	
Boron	20.8	mg/kg	4.0	6020	05/17/12 14:06	PER	7440-42-8	
Cadmium	19.4	mg/kg	0.10	6020	05/17/12 14:06	PER	7440-43-9	
Chromium	21.9	mg/kg	0.20	6020	05/17/12 14:06	PER	7440-47-3	
Cobalt	20.6	mg/kg	0.20	6020	05/17/12 14:06	PER	7440-48-4	
Copper	21.3	mg/kg	0.20	6020	05/17/12 14:06	PER	7440-50-8	
Lead	19.2	mg/kg	0.20	6020	05/17/12 14:06	PER	7439-92-1	
Manganese	101	mg/kg	0.20	6020	05/17/12 14:06	PER	7439-96-5	
Mercury	0.0993	mg/kg	0.0050	7471A	05/18/12 14:32	JRT	7439-97-6	
Nickel	22.6	mg/kg	0.20	6020	05/17/12 14:06	PER	7440-02-0	
Selenium	21.8	mg/kg	0.20	6020	05/17/12 14:06	PER	7782-49-2	
Silver	18.9	mg/kg	0.10	6020	05/17/12 14:06	PER	7440-22-4	
Thallium	18.4	mg/kg	0.20	6020	05/17/12 14:06	PER	7440-28-0	
Vanadium	22.9	mg/kg	0.20	6020	05/17/12 14:06	PER	7440-62-2	
Zinc	22.9	mg/kg	1.0	6020	05/17/12 14:06	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	20	ug/kg	3	8082A	05/16/12 15:03	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/16/12 15:03	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/16/12 15:03	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/16/12 15:03	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/16/12 15:03	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/16/12 15:03	JANB	11097-69-1	
PCB-1260	20	ug/kg	3	8082A	05/16/12 15:03	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,620	ug/kg	30	8270C	05/17/12 20:38	PL	83-32-9	1
Acenaphthylene	1,740	ug/kg	30	8270C	05/17/12 20:38	PL	208-96-8	1

1-Sample spiked at 1.68 mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.07 (continued)

Sample Tag: SB-A17_DH145_28-29 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	1,530	ug/kg	30	8270C	05/17/12 20:38	PL	98-86-2	1
Anthracene	1,790	ug/kg	30	8270C	05/17/12 20:38	PL	120-12-7	1
Atrazine	1,910	ug/kg	30	8270C	05/17/12 20:38	PL	1912-24-9	1
1,1'-Biphenyl	1,800	ug/kg	30	8270C	05/17/12 20:38	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,820	ug/kg	30	8270C	05/17/12 20:38	PL	101-55-3	1
di-n-Butyl phthalate	1,830	ug/kg	70	8270C	05/17/12 20:38	PL	84-74-2	1
Benzaldehyde	1,320	ug/kg	30	8270C	05/17/12 20:38	PL	100-52-7	1
Benzo(a)anthracene	1,770	ug/kg	30	8270C	05/17/12 20:38	PL	56-55-3	1
Benzo(a)pyrene	1,650	ug/kg	30	8270C	05/17/12 20:38	PL	50-32-8	1
Benzo(b)fluoranthene	1,840	ug/kg	30	8270C	05/17/12 20:38	PL	205-99-2	1
Benzo(ghi)perylene	1,530	ug/kg	30	8270C	05/17/12 20:38	PL	191-24-2	1
Benzo(k)fluoranthene	1,750	ug/kg	30	8270C	05/17/12 20:38	PL	207-08-9	1
Butyl benzyl phthalate	1,760	ug/kg	30	8270C	05/17/12 20:38	PL	85-68-7	1
2-Chloronaphthalene	1,710	ug/kg	30	8270C	05/17/12 20:38	PL	91-58-7	1
2-Chlorophenol	1,550	ug/kg	30	8270C	05/17/12 20:38	PL	95-57-8	1
4-Chloro-3-methylphenol	1,720	ug/kg	30	8270C	05/17/12 20:38	PL	59-50-7	1
4-Chloroaniline	1,580	ug/kg	30	8270C	05/17/12 20:38	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,860	ug/kg	30	8270C	05/17/12 20:38	PL	7005-72-3	1
Caprolactam	1,620	ug/kg	30	8270C	05/17/12 20:38	PL	105-60-2	1
Carbazole	1,830	ug/kg	30	8270C	05/17/12 20:38	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,470	ug/kg	30	8270C	05/17/12 20:38	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,240	ug/kg	30	8270C	05/17/12 20:38	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,160	ug/kg	30	8270C	05/17/12 20:38	PL	108-60-1	1
Chrysene	1,820	ug/kg	30	8270C	05/17/12 20:38	PL	218-01-9	1
2,4-Dichlorophenol	1,830	ug/kg	30	8270C	05/17/12 20:38	PL	120-83-2	1
2,4-Dimethylphenol	1,650	ug/kg	30	8270C	05/17/12 20:38	PL	105-67-9	1
2,4-Dinitrophenol	130	ug/kg	30	8270C	05/17/12 20:38	PL	51-28-5	1
2,4-Dinitrotoluene	1,760	ug/kg	30	8270C	05/17/12 20:38	PL	121-14-2	1
2,6-Dinitrotoluene	1,820	ug/kg	30	8270C	05/17/12 20:38	PL	606-20-2	1
3,3'-Dichlorobenzidine	2,040	ug/kg	30	8270C	05/17/12 20:38	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	660	ug/kg	30	8270C	05/17/12 20:38	PL	534-52-1	1
Dibenzo(ah)anthracene	1,590	ug/kg	70	8270C	05/17/12 20:38	PL	53-70-3	1
Dibenzofuran	1,840	ug/kg	30	8270C	05/17/12 20:38	PL	132-64-9	1
Diethyl phthalate	1,840	ug/kg	70	8270C	05/17/12 20:38	PL	84-66-2	1
Dimethyl phthalate	1,940	ug/kg	30	8270C	05/17/12 20:38	PL	131-11-3	1B
bis(2-Ethylhexyl)phthalate	1,830	ug/kg	70	8270C	05/17/12 20:38	PL	117-81-7	1
Fluoranthene	1,910	ug/kg	30	8270C	05/17/12 20:38	PL	206-44-0	1
Fluorene	1,830	ug/kg	30	8270C	05/17/12 20:38	PL	86-73-7	1
Hexachlorobenzene	1,730	ug/kg	30	8270C	05/17/12 20:38	PL	118-74-1	1
Hexachlorobutadiene	1,640	ug/kg	30	8270C	05/17/12 20:38	PL	87-68-3	1
Hexachlorocyclopentadiene	970	ug/kg	30	8270C	05/17/12 20:38	PL	77-47-4	1
Hexachloroethane	1,290	ug/kg	30	8270C	05/17/12 20:38	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,590	ug/kg	30	8270C	05/17/12 20:38	PL	193-39-5	1
Isophorone	1,440	ug/kg	30	8270C	05/17/12 20:38	PL	78-59-1	1
2-Methylnaphthalene	1,620	ug/kg	30	8270C	05/17/12 20:38	PL	91-57-6	1
2-Methylphenol	1,510	ug/kg	30	8270C	05/17/12 20:38	PL	95-48-7	1
3-, 4-Methylphenol	3,090	ug/kg	70	8270C	05/17/12 20:38	PL	3/4-Cresol	1

1-Sample spiked at 1.68 mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.07 (continued)

Sample Tag: SB-A17_DH145_28-29 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	1,730	ug/kg	30	8270C	05/17/12 20:38	PL	88-74-4	1
2-Nitrophenol	1,490	ug/kg	30	8270C	05/17/12 20:38	PL	88-75-5	1
3-Nitroaniline	1,530	ug/kg	30	8270C	05/17/12 20:38	PL	99-09-2	1
4-Nitroaniline	1,790	ug/kg	30	8270C	05/17/12 20:38	PL	100-01-6	1
4-Nitrophenol	1,280	ug/kg	30	8270C	05/17/12 20:38	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,340	ug/kg	30	8270C	05/17/12 20:38	PL	621-64-7	1
N-Nitrosodiphenylamine	1,600	ug/kg	30	8270C	05/17/12 20:38	PL	86-30-6	1
Naphthalene	1,600	ug/kg	30	8270C	05/17/12 20:38	PL	91-20-3	1
Nitrobenzene	1,460	ug/kg	30	8270C	05/17/12 20:38	PL	98-95-3	1
di-n-Octyl phthalate	1,890	ug/kg	70	8270C	05/17/12 20:38	PL	117-84-0	1
Pentachlorophenol	1,400	ug/kg	30	8270C	05/17/12 20:38	PL	87-86-5	1
Phenanthrene	1,760	ug/kg	30	8270C	05/17/12 20:38	PL	85-01-8	1
Phenol	1,470	ug/kg	30	8270C	05/17/12 20:38	PL	108-95-2	1
Pyrene	1,810	ug/kg	30	8270C	05/17/12 20:38	PL	129-00-0	1
2,4,5-Trichlorophenol	2,000	ug/kg	30	8270C	05/17/12 20:38	PL	95-95-4	1
2,4,6-Trichlorophenol	1,950	ug/kg	30	8270C	05/17/12 20:38	PL	88-06-2	1

1-Sample spiked at 1.68 mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.08

Sample Tag: SB-A17_DH145_28-29 MSD

Collected Date/Time: 05/11/2012 09:45

Matrix: Soil

COC Reference: 67635

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 22:08	EMR		
Extraction, PCB	Completed			3550B	05/16/12 10:25	CCM		
Mercury Digestion	Completed			7471A	05/18/12 11:45	JRH		
Metal Digestion	Completed			3050B	05/17/12 11:00	PER		

Inorganics

Total Solids	98	%	1	Std M 2540 B	05/15/12 15:00	RGS		
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Metals

Antimony	19.7	mg/kg	0.20	6020	05/17/12 14:08	PER	7440-36-0	
Arsenic	21.8	mg/kg	0.10	6020	05/17/12 14:08	PER	7440-38-2	
Barium	22.7	mg/kg	1.0	6020	05/17/12 14:08	PER	7440-39-3	
Beryllium	20.5	mg/kg	0.20	6020	05/17/12 14:08	PER	7440-41-7	
Boron	21.5	mg/kg	4.0	6020	05/17/12 14:08	PER	7440-42-8	
Cadmium	19.6	mg/kg	0.10	6020	05/17/12 14:08	PER	7440-43-9	
Chromium	21.9	mg/kg	0.20	6020	05/17/12 14:08	PER	7440-47-3	
Cobalt	20.8	mg/kg	0.20	6020	05/17/12 14:08	PER	7440-48-4	
Copper	21.4	mg/kg	0.20	6020	05/17/12 14:08	PER	7440-50-8	
Lead	19.2	mg/kg	0.20	6020	05/17/12 14:08	PER	7439-92-1	
Manganese	102	mg/kg	0.20	6020	05/17/12 14:08	PER	7439-96-5	
Mercury	0.1006	mg/kg	0.0050	7471A	05/18/12 14:34	JRT	7439-97-6	
Nickel	23.0	mg/kg	0.20	6020	05/17/12 14:08	PER	7440-02-0	
Selenium	21.5	mg/kg	0.20	6020	05/17/12 14:08	PER	7782-49-2	
Silver	19.0	mg/kg	0.10	6020	05/17/12 14:08	PER	7440-22-4	
Thallium	18.4	mg/kg	0.20	6020	05/17/12 14:08	PER	7440-28-0	
Vanadium	22.6	mg/kg	0.20	6020	05/17/12 14:08	PER	7440-62-2	
Zinc	22.6	mg/kg	1.0	6020	05/17/12 14:08	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	20	ug/kg	3	8082A	05/16/12 15:17	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/16/12 15:17	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/16/12 15:17	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/16/12 15:17	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/16/12 15:17	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/16/12 15:17	JANB	11097-69-1	
PCB-1260	20	ug/kg	3	8082A	05/16/12 15:17	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,480	ug/kg	30	8270C	05/17/12 21:12	PL	83-32-9	1
Acenaphthylene	1,570	ug/kg	30	8270C	05/17/12 21:12	PL	208-96-8	1

1-Sample spiked at 1.70 mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.08 (continued)

Sample Tag: SB-A17_DH145_28-29 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	1,400	ug/kg	30	8270C	05/17/12 21:12	PL	98-86-2	1
Anthracene	1,580	ug/kg	30	8270C	05/17/12 21:12	PL	120-12-7	1
Atrazine	1,660	ug/kg	30	8270C	05/17/12 21:12	PL	1912-24-9	1
1,1'-Biphenyl	1,630	ug/kg	30	8270C	05/17/12 21:12	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,610	ug/kg	30	8270C	05/17/12 21:12	PL	101-55-3	1
di-n-Butyl phthalate	1,600	ug/kg	70	8270C	05/17/12 21:12	PL	84-74-2	1
Benzaldehyde	1,190	ug/kg	30	8270C	05/17/12 21:12	PL	100-52-7	1
Benzo(a)anthracene	1,530	ug/kg	30	8270C	05/17/12 21:12	PL	56-55-3	1
Benzo(a)pyrene	1,420	ug/kg	30	8270C	05/17/12 21:12	PL	50-32-8	1
Benzo(b)fluoranthene	1,570	ug/kg	30	8270C	05/17/12 21:12	PL	205-99-2	1
Benzo(ghi)perylene	1,270	ug/kg	30	8270C	05/17/12 21:12	PL	191-24-2	1
Benzo(k)fluoranthene	1,530	ug/kg	30	8270C	05/17/12 21:12	PL	207-08-9	1
Butyl benzyl phthalate	1,520	ug/kg	30	8270C	05/17/12 21:12	PL	85-68-7	1
2-Chloronaphthalene	1,560	ug/kg	30	8270C	05/17/12 21:12	PL	91-58-7	1
2-Chlorophenol	1,420	ug/kg	30	8270C	05/17/12 21:12	PL	95-57-8	1
4-Chloro-3-methylphenol	1,540	ug/kg	30	8270C	05/17/12 21:12	PL	59-50-7	1
4-Chloroaniline	1,430	ug/kg	30	8270C	05/17/12 21:12	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,660	ug/kg	30	8270C	05/17/12 21:12	PL	7005-72-3	1
Caprolactam	1,530	ug/kg	30	8270C	05/17/12 21:12	PL	105-60-2	1
Carbazole	1,580	ug/kg	30	8270C	05/17/12 21:12	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,360	ug/kg	30	8270C	05/17/12 21:12	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,120	ug/kg	30	8270C	05/17/12 21:12	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,060	ug/kg	30	8270C	05/17/12 21:12	PL	108-60-1	1
Chrysene	1,580	ug/kg	30	8270C	05/17/12 21:12	PL	218-01-9	1
2,4-Dichlorophenol	1,660	ug/kg	30	8270C	05/17/12 21:12	PL	120-83-2	1
2,4-Dimethylphenol	1,500	ug/kg	30	8270C	05/17/12 21:12	PL	105-67-9	1
2,4-Dinitrophenol	290	ug/kg	30	8270C	05/17/12 21:12	PL	51-28-5	1
2,4-Dinitrotoluene	1,630	ug/kg	30	8270C	05/17/12 21:12	PL	121-14-2	1
2,6-Dinitrotoluene	1,650	ug/kg	30	8270C	05/17/12 21:12	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,740	ug/kg	30	8270C	05/17/12 21:12	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	880	ug/kg	30	8270C	05/17/12 21:12	PL	534-52-1	1
Dibenzo(ah)anthracene	1,340	ug/kg	70	8270C	05/17/12 21:12	PL	53-70-3	1
Dibenzofuran	1,660	ug/kg	30	8270C	05/17/12 21:12	PL	132-64-9	1
Diethyl phthalate	1,620	ug/kg	70	8270C	05/17/12 21:12	PL	84-66-2	1
Dimethyl phthalate	1,710	ug/kg	30	8270C	05/17/12 21:12	PL	131-11-3	1B
bis(2-Ethylhexyl)phthalate	1,580	ug/kg	70	8270C	05/17/12 21:12	PL	117-81-7	1
Fluoranthene	1,660	ug/kg	30	8270C	05/17/12 21:12	PL	206-44-0	1
Fluorene	1,630	ug/kg	30	8270C	05/17/12 21:12	PL	86-73-7	1
Hexachlorobenzene	1,520	ug/kg	30	8270C	05/17/12 21:12	PL	118-74-1	1
Hexachlorobutadiene	1,510	ug/kg	30	8270C	05/17/12 21:12	PL	87-68-3	1
Hexachlorocyclopentadiene	830	ug/kg	30	8270C	05/17/12 21:12	PL	77-47-4	1
Hexachloroethane	1,160	ug/kg	30	8270C	05/17/12 21:12	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,340	ug/kg	30	8270C	05/17/12 21:12	PL	193-39-5	1
Isophorone	1,290	ug/kg	30	8270C	05/17/12 21:12	PL	78-59-1	1
2-Methylnaphthalene	1,490	ug/kg	30	8270C	05/17/12 21:12	PL	91-57-6	1
2-Methylphenol	1,370	ug/kg	30	8270C	05/17/12 21:12	PL	95-48-7	1
3-, 4-Methylphenol	2,800	ug/kg	70	8270C	05/17/12 21:12	PL	3/4-Cresol	1

1-Sample spiked at 1.70 mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.08 (continued)

Sample Tag: SB-A17_DH145_28-29 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	1,580	ug/kg	30	8270C	05/17/12 21:12	PL	88-74-4	1
2-Nitrophenol	1,490	ug/kg	30	8270C	05/17/12 21:12	PL	88-75-5	1
3-Nitroaniline	1,410	ug/kg	30	8270C	05/17/12 21:12	PL	99-09-2	1
4-Nitroaniline	1,620	ug/kg	30	8270C	05/17/12 21:12	PL	100-01-6	1
4-Nitrophenol	1,190	ug/kg	30	8270C	05/17/12 21:12	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,220	ug/kg	30	8270C	05/17/12 21:12	PL	621-64-7	1
N-Nitrosodiphenylamine	1,390	ug/kg	30	8270C	05/17/12 21:12	PL	86-30-6	1
Naphthalene	1,450	ug/kg	30	8270C	05/17/12 21:12	PL	91-20-3	1
Nitrobenzene	1,380	ug/kg	30	8270C	05/17/12 21:12	PL	98-95-3	1
di-n-Octyl phthalate	1,630	ug/kg	70	8270C	05/17/12 21:12	PL	117-84-0	1
Pentachlorophenol	1,250	ug/kg	30	8270C	05/17/12 21:12	PL	87-86-5	1
Phenanthrene	1,540	ug/kg	30	8270C	05/17/12 21:12	PL	85-01-8	1
Phenol	1,340	ug/kg	30	8270C	05/17/12 21:12	PL	108-95-2	1
Pyrene	1,560	ug/kg	30	8270C	05/17/12 21:12	PL	129-00-0	1
2,4,5-Trichlorophenol	1,800	ug/kg	30	8270C	05/17/12 21:12	PL	95-95-4	1
2,4,6-Trichlorophenol	1,760	ug/kg	30	8270C	05/17/12 21:12	PL	88-06-2	1

1-Sample spiked at 1.70 mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.09
Sample Tag: SB-A17_DF146_1-2
Collected Date/Time: 05/11/2012 10:33
Matrix: Soil
COC Reference: 67635

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 22:08	EMR		
Extraction, PCB	Completed			3550B	05/16/12 10:25	CCM		
Mercury Digestion	Completed			7471A	05/18/12 11:45	JRH		
Metal Digestion	Completed			3050B	05/17/12 11:00	PER		

Inorganics

Total Solids	96	%	1	Std M 2540 B	05/15/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 15:07	PER	7440-36-0	
Arsenic	0.43	mg/kg	0.10	6020	05/17/12 15:07	PER	7440-38-2	
Barium	2.71	mg/kg	1.0	6020	05/17/12 15:07	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 15:07	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 15:07	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 15:07	PER	7440-43-9	
Chromium	0.70	mg/kg	0.20	6020	05/17/12 15:07	PER	7440-47-3	
Cobalt	0.91	mg/kg	0.20	6020	05/17/12 15:07	PER	7440-48-4	
Copper	0.92	mg/kg	0.20	6020	05/17/12 15:07	PER	7440-50-8	
Lead	1.08	mg/kg	0.20	6020	05/17/12 15:07	PER	7439-92-1	
Manganese	108	mg/kg	0.20	6020	05/17/12 15:07	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0052	7471A	05/18/12 14:41	JRT	7439-97-6	
Nickel	2.72	mg/kg	0.20	6020	05/17/12 15:07	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 15:07	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 15:07	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 15:07	PER	7440-28-0	
Vanadium	1.00	mg/kg	0.20	6020	05/17/12 15:07	PER	7440-62-2	
Zinc	1.35	mg/kg	1.0	6020	05/17/12 15:07	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/16/12 17:50	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/16/12 17:50	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/16/12 17:50	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/16/12 17:50	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/16/12 17:50	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/16/12 17:50	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/16/12 17:50	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	208-96-8	
Acetophenone	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	98-86-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.09 (continued)

Sample Tag: SB-A17_DF146_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	120-12-7	
Atrazine	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 21:46	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	105-60-2	
Carbazole	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	108-60-1	
Chrysene	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/17/12 21:46	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 21:46	PL	84-66-2	
Dimethyl phthalate	440	ug/kg	30	8270C	05/17/12 21:46	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/17/12 21:46	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	206-44-0	
Fluorene	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	193-39-5	
Isophorone	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/17/12 21:46	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.09 (continued)

Sample Tag: SB-A17_DF146_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	86-30-6	
Naphthalene	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/17/12 21:46	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	85-01-8	
Phenol	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	108-95-2	
Pyrene	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	30	8270C	05/17/12 21:46	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.10
Sample Tag: SB-A17_DF146_5-9
Collected Date/Time: 05/11/2012 11:20
Matrix: Groundwater
COC Reference: 67635

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.4	IR
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/14/12 22:46	EMR		
Extraction, PCB	Completed			3510C	05/16/12 12:45	ADB		
Mercury Digestion	Completed			7471A	05/21/12 10:45	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:50	SLS	7440-36-0	
Arsenic, Dissolved	0.003	mg/L	0.002	6020	05/21/12 18:50	SLS	7440-38-2	
Barium, Dissolved	0.062	mg/L	0.010	6020	05/21/12 18:50	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 18:50	SLS	7440-41-7	
Boron, Dissolved	0.13	mg/L	0.04	6020	05/21/12 18:50	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 18:50	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:50	SLS	7440-47-3	
Cobalt, Dissolved	0.010	mg/L	0.010	6020	05/21/12 18:50	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:50	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:50	SLS	7439-92-1	
Manganese, Dissolved	0.960	mg/L	0.010	6020	05/21/12 18:50	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/21/12 14:57	JRT	7439-97-6	
Nickel, Dissolved	0.013	mg/L	0.010	6020	05/21/12 18:50	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:50	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 18:50	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:50	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:50	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:50	SLS	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List Dissolved (Column 1)**

PCB-1016	Not detected	ug/L	0.05	8082A	05/16/12 15:01	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.1	8082A	05/16/12 15:01	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.1	8082A	05/16/12 15:01	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	8082A	05/16/12 15:01	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	8082A	05/16/12 15:01	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	8082A	05/16/12 15:01	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/16/12 15:01	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/15/12 20:39	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/15/12 20:39	PL	118-74-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.10 (continued)

Sample Tag: SB-A17_DF146_5-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/15/12 17:58	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/15/12 17:58	PL	84-66-2	
Dimethyl phthalate	10	ug/L	2	8270C	05/15/12 17:58	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/15/12 17:58	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	88-75-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.10 (continued)

Sample Tag: SB-A17_DF146_5-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 17:58	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	05/24/12 13:57	WAT	123-91-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.11
Sample Tag: SB-A17_DF146_11-12
Collected Date/Time: 05/11/2012 13:10
Matrix: Soil
COC Reference: 67635

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 22:08	EMR		
Extraction, PCB	Completed			3550B	05/16/12 10:25	CCM		
Mercury Digestion	Completed			7471A	05/18/12 11:45	JRH		
Metal Digestion	Completed			3050B	05/17/12 11:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/15/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 15:09	PER	7440-36-0	
Arsenic	0.63	mg/kg	0.10	6020	05/17/12 15:09	PER	7440-38-2	
Barium	11.1	mg/kg	1.0	6020	05/17/12 15:09	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 15:09	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 15:09	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 15:09	PER	7440-43-9	
Chromium	1.73	mg/kg	0.20	6020	05/17/12 15:09	PER	7440-47-3	
Cobalt	1.23	mg/kg	0.20	6020	05/17/12 15:09	PER	7440-48-4	
Copper	3.58	mg/kg	0.20	6020	05/17/12 15:09	PER	7440-50-8	
Lead	2.88	mg/kg	0.20	6020	05/17/12 15:09	PER	7439-92-1	
Manganese	86.9	mg/kg	0.20	6020	05/17/12 15:09	PER	7439-96-5	
Mercury	0.0166	mg/kg	0.0057	7471A	05/18/12 14:43	JRT	7439-97-6	
Nickel	2.03	mg/kg	0.20	6020	05/17/12 15:09	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 15:09	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 15:09	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 15:09	PER	7440-28-0	
Vanadium	3.44	mg/kg	0.20	6020	05/17/12 15:09	PER	7440-62-2	
Zinc	3.42	mg/kg	1.0	6020	05/17/12 15:09	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	5	8082A	05/16/12 18:01	JANB	12674-11-2	X
PCB-1242	Not detected	ug/kg	5	8082A	05/16/12 18:01	JANB	53469-21-9	X
PCB-1221	Not detected	ug/kg	5	8082A	05/16/12 18:01	JANB	11104-28-2	X
PCB-1232	Not detected	ug/kg	5	8082A	05/16/12 18:01	JANB	11141-16-5	X
PCB-1248	Not detected	ug/kg	5	8082A	05/16/12 18:01	JANB	12672-29-6	X
PCB-1254	Not detected	ug/kg	5	8082A	05/16/12 18:01	JANB	11097-69-1	X
PCB-1260	Not detected	ug/kg	5	8082A	05/16/12 18:01	JANB	11096-82-5	X

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	208-96-8	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.11 (continued)

Sample Tag: SB-A17_DF146_11-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	98-86-2	
Anthracene	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	120-12-7	
Atrazine	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	8270C	05/18/12 00:02	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	105-60-2	
Carbazole	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	108-60-1	
Chrysene	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	8270C	05/18/12 00:02	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	8270C	05/18/12 00:02	PL	84-66-2	
Dimethyl phthalate	590	ug/kg	80	8270C	05/18/12 00:02	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	8270C	05/18/12 00:02	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	206-44-0	
Fluorene	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	193-39-5	
Isophorone	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	8270C	05/18/12 00:02	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	88-74-4	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.11 (continued)

Sample Tag: SB-A17_DF146_11-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	86-30-6	
Naphthalene	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	8270C	05/18/12 00:02	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	85-01-8	
Phenol	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	108-95-2	
Pyrene	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	80	8270C	05/18/12 00:02	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.12
Sample Tag: SB-A17_DF142_1-2
Collected Date/Time: 05/11/2012 13:30
Matrix: Soil
COC Reference: 67635

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 22:08	EMR		
Extraction, PCB	Completed			3550B	05/16/12 10:25	CCM		
Mercury Digestion	Completed			7471A	05/18/12 11:45	JRH		
Metal Digestion	Completed			3050B	05/17/12 11:00	PER		

Inorganics

Total Solids	85	%	1	Std M 2540 B	05/15/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 15:11	PER	7440-36-0	
Arsenic	1.10	mg/kg	0.10	6020	05/17/12 15:11	PER	7440-38-2	
Barium	9.52	mg/kg	1.0	6020	05/17/12 15:11	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 15:11	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 15:11	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 15:11	PER	7440-43-9	
Chromium	1.17	mg/kg	0.20	6020	05/17/12 15:11	PER	7440-47-3	
Cobalt	0.88	mg/kg	0.20	6020	05/17/12 15:11	PER	7440-48-4	
Copper	181	mg/kg	0.20	6020	05/17/12 15:11	PER	7440-50-8	
Lead	2.56	mg/kg	0.20	6020	05/17/12 15:11	PER	7439-92-1	
Manganese	78.9	mg/kg	0.20	6020	05/17/12 15:11	PER	7439-96-5	
Mercury	0.0095	mg/kg	0.0059	7471A	05/18/12 14:46	JRT	7439-97-6	
Nickel	3.81	mg/kg	0.20	6020	05/17/12 15:11	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 15:11	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 15:11	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 15:11	PER	7440-28-0	
Vanadium	2.45	mg/kg	0.20	6020	05/17/12 15:11	PER	7440-62-2	
Zinc	3.95	mg/kg	1.0	6020	05/17/12 15:11	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/16/12 18:11	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/16/12 18:11	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/16/12 18:11	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/16/12 18:11	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/16/12 18:11	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/16/12 18:11	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/16/12 18:11	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	98-86-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.12 (continued)

Sample Tag: SB-A17_DF142_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 22:20	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/17/12 22:20	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 22:20	PL	84-66-2	
Dimethyl phthalate	330	ug/kg	40	8270C	05/17/12 22:20	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/17/12 22:20	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/17/12 22:20	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.12 (continued)

Sample Tag: SB-A17_DF142_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 22:20	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 22:20	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.13
Sample Tag: SB-A17_DC142_1-2
Collected Date/Time: 05/11/2012 14:05
Matrix: Soil
COC Reference: 67635

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 22:08	EMR		
Extraction, PCB	Completed			3550B	05/16/12 10:25	CCM		
Mercury Digestion	Completed			7471A	05/18/12 11:45	JRH		
Metal Digestion	Completed			3050B	05/17/12 11:00	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	05/15/12 15:00	RGS		
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Metals

Antimony	0.23	mg/kg	0.20	6020	05/17/12 15:13	PER	7440-36-0	
Arsenic	1.93	mg/kg	0.10	6020	05/17/12 15:13	PER	7440-38-2	
Barium	8.74	mg/kg	1.0	6020	05/17/12 15:13	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 15:13	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 15:13	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 15:13	PER	7440-43-9	
Chromium	6.00	mg/kg	0.20	6020	05/17/12 15:13	PER	7440-47-3	
Cobalt	0.84	mg/kg	0.20	6020	05/17/12 15:13	PER	7440-48-4	
Copper	4,080	mg/kg	10.0	6020	05/17/12 15:21	PER	7440-50-8	
Lead	51.6	mg/kg	0.20	6020	05/17/12 15:13	PER	7439-92-1	
Manganese	56.7	mg/kg	0.20	6020	05/17/12 15:13	PER	7439-96-5	
Mercury	0.0082	mg/kg	0.006	7471A	05/18/12 14:48	JRT	7439-97-6	
Nickel	12.9	mg/kg	0.20	6020	05/17/12 15:13	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 15:13	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 15:13	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 15:13	PER	7440-28-0	
Vanadium	5.37	mg/kg	0.20	6020	05/17/12 15:13	PER	7440-62-2	
Zinc	9.12	mg/kg	1.0	6020	05/17/12 15:13	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/16/12 18:22	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/16/12 18:22	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/16/12 18:22	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/16/12 18:22	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/16/12 18:22	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/16/12 18:22	JANB	11097-69-1	
PCB-1260	20	ug/kg	3	8082A	05/16/12 18:22	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	98-86-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.13 (continued)

Sample Tag: SB-A17_DC142_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	60	ug/kg	40	8270C	05/18/12 00:35	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/18/12 00:35	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	100-52-7	
Benzo(a)anthracene	270	ug/kg	40	8270C	05/18/12 00:35	PL	56-55-3	
Benzo(a)pyrene	270	ug/kg	40	8270C	05/18/12 00:35	PL	50-32-8	
Benzo(b)fluoranthene	540	ug/kg	40	8270C	05/18/12 00:35	PL	205-99-2	p
Benzo(ghi)perylene	130	ug/kg	40	8270C	05/18/12 00:35	PL	191-24-2	
Benzo(k)fluoranthene	550	ug/kg	40	8270C	05/18/12 00:35	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	108-60-1	
Chrysene	310	ug/kg	40	8270C	05/18/12 00:35	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/18/12 00:35	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/18/12 00:35	PL	84-66-2	
Dimethyl phthalate	610	ug/kg	40	8270C	05/18/12 00:35	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/18/12 00:35	PL	117-81-7	
Fluoranthene	630	ug/kg	40	8270C	05/18/12 00:35	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	120	ug/kg	40	8270C	05/18/12 00:35	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/18/12 00:35	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	88-74-4	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.13 (continued)

Sample Tag: SB-A17_DC142_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/18/12 00:35	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	87-86-5	
Phenanthrene	250	ug/kg	40	8270C	05/18/12 00:35	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	108-95-2	
Pyrene	560	ug/kg	40	8270C	05/18/12 00:35	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/18/12 00:35	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.14
Sample Tag: SB-A17_DUP25
Collected Date/Time: 05/11/2012 00:01
Matrix: Soil
COC Reference: 67635

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 22:08	EMR		
Extraction, PCB	Completed			3550B	05/16/12 10:25	CCM		
Mercury Digestion	Completed			7471A	05/18/12 11:45	JRH		
Metal Digestion	Completed			3050B	05/17/12 11:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/15/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 15:23	PER	7440-36-0	
Arsenic	0.44	mg/kg	0.10	6020	05/17/12 15:23	PER	7440-38-2	
Barium	11.3	mg/kg	1.0	6020	05/17/12 15:23	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 15:23	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 15:23	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 15:23	PER	7440-43-9	
Chromium	1.48	mg/kg	0.20	6020	05/17/12 15:23	PER	7440-47-3	
Cobalt	0.98	mg/kg	0.20	6020	05/17/12 15:23	PER	7440-48-4	
Copper	4.36	mg/kg	0.20	6020	05/17/12 15:23	PER	7440-50-8	
Lead	2.63	mg/kg	0.20	6020	05/17/12 15:23	PER	7439-92-1	
Manganese	100	mg/kg	0.20	6020	05/17/12 15:23	PER	7439-96-5	
Mercury	0.0138	mg/kg	0.0057	7471A	05/18/12 14:50	JRT	7439-97-6	
Nickel	1.70	mg/kg	0.20	6020	05/17/12 15:23	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 15:23	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 15:23	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 15:23	PER	7440-28-0	
Vanadium	3.43	mg/kg	0.20	6020	05/17/12 15:23	PER	7440-62-2	
Zinc	3.41	mg/kg	1.0	6020	05/17/12 15:23	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	5	8082A	05/16/12 18:32	JANB	12674-11-2	X
PCB-1242	Not detected	ug/kg	5	8082A	05/16/12 18:32	JANB	53469-21-9	X
PCB-1221	Not detected	ug/kg	5	8082A	05/16/12 18:32	JANB	11104-28-2	X
PCB-1232	Not detected	ug/kg	5	8082A	05/16/12 18:32	JANB	11141-16-5	X
PCB-1248	Not detected	ug/kg	5	8082A	05/16/12 18:32	JANB	12672-29-6	X
PCB-1254	Not detected	ug/kg	5	8082A	05/16/12 18:32	JANB	11097-69-1	X
PCB-1260	Not detected	ug/kg	5	8082A	05/16/12 18:32	JANB	11096-82-5	X

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	208-96-8	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.14 (continued)

Sample Tag: SB-A17_DUP25

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 22:54	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/17/12 22:54	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 22:54	PL	84-66-2	
Dimethyl phthalate	560	ug/kg	40	8270C	05/17/12 22:54	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/17/12 22:54	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/17/12 22:54	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	88-74-4	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.14 (continued)

Sample Tag: SB-A17_DUP25

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/17/12 22:54	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/17/12 22:54	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.15
Sample Tag: SB-A17_DC142_3-7
Collected Date/Time: 05/11/2012 15:05
Matrix: Groundwater
COC Reference: 67609

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.4	IR
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/14/12 22:46	EMR		
Extraction, PCB	Completed			3510C	05/16/12 12:45	ADB		
Mercury Digestion	Completed			7471A	05/21/12 10:45	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:54	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:54	SLS	7440-38-2	
Barium, Dissolved	0.030	mg/L	0.010	6020	05/21/12 18:54	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 18:54	SLS	7440-41-7	
Boron, Dissolved	0.19	mg/L	0.04	6020	05/21/12 18:54	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 18:54	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:54	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:54	SLS	7440-48-4	
Copper, Dissolved	0.014	mg/L	0.002	6020	05/21/12 18:54	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:54	SLS	7439-92-1	
Manganese, Dissolved	0.011	mg/L	0.010	6020	05/21/12 18:54	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/21/12 14:59	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:54	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:54	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 18:54	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:54	SLS	7440-28-0	
Vanadium, Dissolved	0.002	mg/L	0.002	6020	05/21/12 18:54	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:54	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/16/12 15:12	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.1	8082A	05/16/12 15:12	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.1	8082A	05/16/12 15:12	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	8082A	05/16/12 15:12	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	8082A	05/16/12 15:12	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	8082A	05/16/12 15:12	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/16/12 15:12	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/15/12 21:08	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/15/12 21:08	PL	118-74-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.15 (continued)

Sample Tag: SB-A17_DC142_3-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/15/12 18:27	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/15/12 18:27	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	05/15/12 18:27	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/15/12 18:27	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	88-75-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.15 (continued)

Sample Tag: SB-A17_DC142_3-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 18:27	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	05/24/12 14:15	WAT	123-91-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.16
Sample Tag: VAP-A5.1-MT115_11-12
Collected Date/Time: 05/11/2012 09:00
Matrix: Soil
COC Reference: 67631

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 22:08	EMR		
Mercury Digestion	Completed			7471A	05/18/12 11:45	JRH		
Metal Digestion	Completed			3050B	05/17/12 12:00	PER		

Inorganics

Total Solids	84	%	1	Std M 2540 B	05/15/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 15:37	PER	7440-36-0	
Arsenic	1.09	mg/kg	0.10	6020	05/17/12 15:37	PER	7440-38-2	
Barium	27.4	mg/kg	1.0	6020	05/17/12 15:37	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 15:37	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 15:37	PER	7440-42-8	
Cadmium	0.10	mg/kg	0.10	6020	05/17/12 15:37	PER	7440-43-9	
Chromium	3.27	mg/kg	0.20	6020	05/17/12 15:37	PER	7440-47-3	
Cobalt	3.80	mg/kg	0.20	6020	05/17/12 15:37	PER	7440-48-4	
Copper	5.60	mg/kg	0.20	6020	05/17/12 15:37	PER	7440-50-8	
Lead	4.28	mg/kg	0.20	6020	05/17/12 15:37	PER	7439-92-1	
Manganese	299	mg/kg	0.20	6020	05/17/12 15:37	PER	7439-96-5	
Mercury	0.0134	mg/kg	0.0058	7471A	05/18/12 14:52	JRT	7439-97-6	
Nickel	7.57	mg/kg	0.20	6020	05/17/12 15:37	PER	7440-02-0	
Selenium	0.26	mg/kg	0.20	6020	05/17/12 15:37	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 15:37	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 15:37	PER	7440-28-0	
Vanadium	4.99	mg/kg	0.20	6020	05/17/12 15:37	PER	7440-62-2	
Zinc	11.1	mg/kg	1.0	6020	05/17/12 15:37	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/18/12 17:37	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	207-08-9	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.16 (continued)

Sample Tag: VAP-A5.1-MT115_11-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/18/12 17:37	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/18/12 17:37	PL	84-66-2	
Dimethyl phthalate	280	ug/kg	40	8270C	05/18/12 17:37	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/18/12 17:37	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/18/12 17:37	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/18/12 17:37	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.16 (continued)

Sample Tag: VAP-A5.1-MT115_11-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/18/12 17:37	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.17
Sample Tag: VAP-A5.1-MT115_12.5-13.5
Collected Date/Time: 05/11/2012 09:45
Matrix: Groundwater
COC Reference: 67631

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.4	IR
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/14/12 22:46	EMR		
Mercury Digestion	Completed			7471A	05/21/12 10:45	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:58	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:58	SLS	7440-38-2	
Barium, Dissolved	0.113	mg/L	0.010	6020	05/21/12 18:58	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 18:58	SLS	7440-41-7	
Boron, Dissolved	0.25	mg/L	0.04	6020	05/21/12 18:58	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 18:58	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:58	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 18:58	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:58	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:58	SLS	7439-92-1	
Manganese, Dissolved	1.37	mg/L	0.010	6020	05/21/12 18:58	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/21/12 15:08	JRT	7439-97-6	
Nickel, Dissolved	0.029	mg/L	0.010	6020	05/21/12 18:58	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:58	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 18:58	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:58	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 18:58	SLS	7440-62-2	
Zinc, Dissolved	0.039	mg/L	0.010	6020	05/21/12 18:58	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/15/12 21:36	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/15/12 21:36	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	205-99-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.17 (continued)

Sample Tag: VAP-A5.1-MT115_12.5-13.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/15/12 18:57	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/15/12 18:57	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	05/15/12 18:57	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/15/12 18:57	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	129-00-0	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.17 (continued)

Sample Tag: VAP-A5.1-MT115_12.5-13.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 18:57	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.18

Sample Tag: VAP-A5.1-MT115_12.5-13.5 MS

Collected Date/Time: 05/11/2012 09:45

Matrix: Groundwater

COC Reference: 67631

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.4	IR
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/14/12 22:46	EMR		
Mercury Digestion	Completed			7471A	05/21/12 10:45	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	0.110	mg/L	0.002	6020	05/21/12 19:02	SLS	7440-36-0	
Arsenic, Dissolved	0.118	mg/L	0.002	6020	05/21/12 19:02	SLS	7440-38-2	
Barium, Dissolved	0.228	mg/L	0.010	6020	05/21/12 19:02	SLS	7440-39-3	
Beryllium, Dissolved	0.111	mg/L	0.001	6020	05/21/12 19:02	SLS	7440-41-7	
Boron, Dissolved	0.36	mg/L	0.04	6020	05/21/12 19:02	SLS	7440-42-8	
Cadmium, Dissolved	0.106	mg/L	0.001	6020	05/21/12 19:02	SLS	7440-43-9	
Chromium, Dissolved	0.112	mg/L	0.010	6020	05/21/12 19:02	SLS	7440-47-3	
Cobalt, Dissolved	0.112	mg/L	0.010	6020	05/21/12 19:02	SLS	7440-48-4	
Copper, Dissolved	0.107	mg/L	0.002	6020	05/21/12 19:02	SLS	7440-50-8	
Lead, Dissolved	0.097	mg/L	0.002	6020	05/21/12 19:02	SLS	7439-92-1	
Manganese, Dissolved	1.47	mg/L	0.010	6020	05/21/12 19:02	SLS	7439-96-5	
Mercury, Dissolved	0.0019	mg/L	0.0001	7471A	05/21/12 15:10	JRT	7439-97-6	
Nickel, Dissolved	0.137	mg/L	0.010	6020	05/21/12 19:02	SLS	7440-02-0	
Selenium, Dissolved	0.113	mg/L	0.002	6020	05/21/12 19:02	SLS	7782-49-2	
Silver, Dissolved	0.0967	mg/L	0.0002	6020	05/21/12 19:02	SLS	7440-22-4	
Thallium, Dissolved	0.0977	mg/L	0.002	6020	05/21/12 19:02	SLS	7440-28-0	
Vanadium, Dissolved	0.115	mg/L	0.002	6020	05/21/12 19:02	SLS	7440-62-2	
Zinc, Dissolved	0.127	mg/L	0.010	6020	05/21/12 19:02	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	4	ug/L	1	8270C	05/15/12 19:26	PL	91-94-1	1
Hexachlorobenzene	43	ug/L	1	8270C	05/15/12 19:26	PL	118-74-1	1

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	40	ug/L	1	8270C	05/15/12 19:26	PL	83-32-9	1
Acenaphthylene	41	ug/L	1	8270C	05/15/12 19:26	PL	208-96-8	1
Acetophenone	44	ug/L	1	8270C	05/15/12 19:26	PL	98-86-2	1
Anthracene	43	ug/L	1	8270C	05/15/12 19:26	PL	120-12-7	1
Atrazine	43	ug/L	1	8270C	05/15/12 19:26	PL	1912-24-9	1
1,1'-Biphenyl	44	ug/L	1	8270C	05/15/12 19:26	PL	92-52-4	1
4-Bromophenyl phenyl ether	42	ug/L	1	8270C	05/15/12 19:26	PL	101-55-3	1
di-n-Butyl phthalate	46	ug/L	1	8270C	05/15/12 19:26	PL	84-74-2	1
Benzaldehyde	38	ug/L	1	8270C	05/15/12 19:26	PL	100-52-7	1
Benzo(a)anthracene	41	ug/L	1	8270C	05/15/12 19:26	PL	56-55-3	1
Benzo(a)pyrene	40	ug/L	1	8270C	05/15/12 19:26	PL	50-32-8	1

1-Sample spiked at 0.051 mg/l



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.18 (continued)

Sample Tag: VAP-A5.1-MT115_12.5-13.5 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(b)fluoranthene	47	ug/L	1	8270C	05/15/12 19:26	PL	205-99-2	1
Benzo(ghi)perylene	33	ug/L	1	8270C	05/15/12 19:26	PL	191-24-2	1
Benzo(k)fluoranthene	45	ug/L	1	8270C	05/15/12 19:26	PL	207-08-9	1
Butyl benzyl phthalate	48	ug/L	1	8270C	05/15/12 19:26	PL	85-68-7	1
2-Chloronaphthalene	40	ug/L	1	8270C	05/15/12 19:26	PL	91-58-7	1
2-Chlorophenol	40	ug/L	1	8270C	05/15/12 19:26	PL	95-57-8	1
4-Chloro-3-methylphenol	48	ug/L	1	8270C	05/15/12 19:26	PL	59-50-7	1
4-Chloroaniline	29	ug/L	2	8270C	05/15/12 19:26	PL	106-47-8	1
4-Chlorophenyl phenyl ether	42	ug/L	1	8270C	05/15/12 19:26	PL	7005-72-3	1
Caprolactam	7	ug/L	1	8270C	05/15/12 19:26	PL	105-60-2	1
Carbazole	43	ug/L	1	8270C	05/15/12 19:26	PL	86-74-8	1
bis(2-Chloroethoxy)methane	37	ug/L	1	8270C	05/15/12 19:26	PL	111-91-1	1
bis(2-Chloroethyl)ether	31	ug/L	1	8270C	05/15/12 19:26	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	28	ug/L	1	8270C	05/15/12 19:26	PL	108-60-1	1
Chrysene	43	ug/L	1	8270C	05/15/12 19:26	PL	218-01-9	1
2,4-Dichlorophenol	45	ug/L	1	8270C	05/15/12 19:26	PL	120-83-2	1
2,4-Dimethylphenol	43	ug/L	1	8270C	05/15/12 19:26	PL	105-67-9	1
2,4-Dinitrophenol	40	ug/L	1	8270C	05/15/12 19:26	PL	51-28-5	1
2,4-Dinitrotoluene	45	ug/L	1	8270C	05/15/12 19:26	PL	121-14-2	1
2,6-Dinitrotoluene	45	ug/L	1	8270C	05/15/12 19:26	PL	606-20-2	1
4,6-Dinitro-2-methylphenol	44	ug/L	1	8270C	05/15/12 19:26	PL	534-52-1	1
Dibenzo(ah)anthracene	36	ug/L	1	8270C	05/15/12 19:26	PL	53-70-3	1
Dibenzofuran	41	ug/L	1	8270C	05/15/12 19:26	PL	132-64-9	1
Diethyl phthalate	45	ug/L	2	8270C	05/15/12 19:26	PL	84-66-2	1
Dimethyl phthalate	44	ug/L	2	8270C	05/15/12 19:26	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	50	ug/L	2	8270C	05/15/12 19:26	PL	117-81-7	1
Fluoranthene	42	ug/L	1	8270C	05/15/12 19:26	PL	206-44-0	1
Fluorene	42	ug/L	1	8270C	05/15/12 19:26	PL	86-73-7	1
Hexachlorobutadiene	33	ug/L	1	8270C	05/15/12 19:26	PL	87-68-3	1
Hexachlorocyclopentadiene	27	ug/L	1	8270C	05/15/12 19:26	PL	77-47-4	1
Hexachloroethane	30	ug/L	1	8270C	05/15/12 19:26	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	33	ug/L	1	8270C	05/15/12 19:26	PL	193-39-5	1
Isophorone	37	ug/L	1	8270C	05/15/12 19:26	PL	78-59-1	1
2-Methylnaphthalene	36	ug/L	1	8270C	05/15/12 19:26	PL	91-57-6	1
2-Methylphenol	38	ug/L	1	8270C	05/15/12 19:26	PL	95-48-7	1
3-, 4-Methylphenol	81	ug/L	1	8270C	05/15/12 19:26	PL	3/4-Cresol	1
2-Nitroaniline	45	ug/L	1	8270C	05/15/12 19:26	PL	88-74-4	1
2-Nitrophenol	42	ug/L	1	8270C	05/15/12 19:26	PL	88-75-5	1
3-Nitroaniline	33	ug/L	1	8270C	05/15/12 19:26	PL	99-09-2	1
4-Nitroaniline	46	ug/L	1	8270C	05/15/12 19:26	PL	100-01-6	1
4-Nitrophenol	40	ug/L	1	8270C	05/15/12 19:26	PL	100-02-7	1
N-Nitrosodi-n-propylamine	39	ug/L	1	8270C	05/15/12 19:26	PL	621-64-7	1
N-Nitrosodiphenylamine	40	ug/L	1	8270C	05/15/12 19:26	PL	86-30-6	1
Naphthalene	36	ug/L	1	8270C	05/15/12 19:26	PL	91-20-3	1
Nitrobenzene	37	ug/L	1	8270C	05/15/12 19:26	PL	98-95-3	1
di-n-Octyl phthalate	61	ug/L	1	8270C	05/15/12 19:26	PL	117-84-0	1
Pentachlorophenol	39	ug/L	1	8270C	05/15/12 19:26	PL	87-86-5	1
Phenanthrene	42	ug/L	1	8270C	05/15/12 19:26	PL	85-01-8	1

1-Sample spiked at 0.051 mg/l



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.18 (continued)

Sample Tag: VAP-A5.1-MT115_12.5-13.5 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Phenol	26	ug/L	1	8270C	05/15/12 19:26	PL	108-95-2	1
Pyrene	44	ug/L	1	8270C	05/15/12 19:26	PL	129-00-0	1
2,4,5-Trichlorophenol	50	ug/L	1	8270C	05/15/12 19:26	PL	95-95-4	1
2,4,6-Trichlorophenol	49	ug/L	1	8270C	05/15/12 19:26	PL	88-06-2	1

1-Sample spiked at 0.051 mg/l



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.19

Sample Tag: VAP-A5.1-MT115_12.5-13.5 MSD

Collected Date/Time: 05/11/2012 09:45

Matrix: Groundwater

COC Reference: 67631

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.4	IR
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/14/12 22:46	EMR		
Mercury Digestion	Completed			7471A	05/21/12 10:45	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	0.107	mg/L	0.002	6020	05/21/12 19:06	SLS	7440-36-0	
Arsenic, Dissolved	0.114	mg/L	0.002	6020	05/21/12 19:06	SLS	7440-38-2	
Barium, Dissolved	0.231	mg/L	0.010	6020	05/21/12 19:06	SLS	7440-39-3	
Beryllium, Dissolved	0.109	mg/L	0.001	6020	05/21/12 19:06	SLS	7440-41-7	
Boron, Dissolved	0.36	mg/L	0.04	6020	05/21/12 19:06	SLS	7440-42-8	
Cadmium, Dissolved	0.104	mg/L	0.001	6020	05/21/12 19:06	SLS	7440-43-9	
Chromium, Dissolved	0.108	mg/L	0.010	6020	05/21/12 19:06	SLS	7440-47-3	
Cobalt, Dissolved	0.109	mg/L	0.010	6020	05/21/12 19:06	SLS	7440-48-4	
Copper, Dissolved	0.103	mg/L	0.002	6020	05/21/12 19:06	SLS	7440-50-8	
Lead, Dissolved	0.095	mg/L	0.002	6020	05/21/12 19:06	SLS	7439-92-1	
Manganese, Dissolved	1.50	mg/L	0.010	6020	05/21/12 19:06	SLS	7439-96-5	
Mercury, Dissolved	0.0019	mg/L	0.0001	7471A	05/21/12 15:13	JRT	7439-97-6	
Nickel, Dissolved	0.129	mg/L	0.010	6020	05/21/12 19:06	SLS	7440-02-0	
Selenium, Dissolved	0.112	mg/L	0.002	6020	05/21/12 19:06	SLS	7782-49-2	
Silver, Dissolved	0.0949	mg/L	0.0002	6020	05/21/12 19:06	SLS	7440-22-4	
Thallium, Dissolved	0.0950	mg/L	0.002	6020	05/21/12 19:06	SLS	7440-28-0	
Vanadium, Dissolved	0.112	mg/L	0.002	6020	05/21/12 19:06	SLS	7440-62-2	
Zinc, Dissolved	0.126	mg/L	0.010	6020	05/21/12 19:06	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	5	ug/L	1	8270C	05/15/12 19:55	PL	91-94-1	1
Hexachlorobenzene	46	ug/L	1	8270C	05/15/12 19:55	PL	118-74-1	1

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	41	ug/L	1	8270C	05/15/12 19:55	PL	83-32-9	1
Acenaphthylene	43	ug/L	1	8270C	05/15/12 19:55	PL	208-96-8	1
Acetophenone	46	ug/L	1	8270C	05/15/12 19:55	PL	98-86-2	1
Anthracene	46	ug/L	1	8270C	05/15/12 19:55	PL	120-12-7	1
Atrazine	45	ug/L	1	8270C	05/15/12 19:55	PL	1912-24-9	1
1,1'-Biphenyl	46	ug/L	1	8270C	05/15/12 19:55	PL	92-52-4	1
4-Bromophenyl phenyl ether	46	ug/L	1	8270C	05/15/12 19:55	PL	101-55-3	1
di-n-Butyl phthalate	50	ug/L	1	8270C	05/15/12 19:55	PL	84-74-2	1
Benzaldehyde	39	ug/L	1	8270C	05/15/12 19:55	PL	100-52-7	1
Benzo(a)anthracene	45	ug/L	1	8270C	05/15/12 19:55	PL	56-55-3	1
Benzo(a)pyrene	44	ug/L	1	8270C	05/15/12 19:55	PL	50-32-8	1

1-Sample spiked at 0.051 mg/l



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.19 (continued)

Sample Tag: VAP-A5.1-MT115_12.5-13.5 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(b)fluoranthene	51	ug/L	1	8270C	05/15/12 19:55	PL	205-99-2	1
Benzo(ghi)perylene	36	ug/L	1	8270C	05/15/12 19:55	PL	191-24-2	1
Benzo(k)fluoranthene	50	ug/L	1	8270C	05/15/12 19:55	PL	207-08-9	1
Butyl benzyl phthalate	52	ug/L	1	8270C	05/15/12 19:55	PL	85-68-7	1
2-Chloronaphthalene	41	ug/L	1	8270C	05/15/12 19:55	PL	91-58-7	1
2-Chlorophenol	42	ug/L	1	8270C	05/15/12 19:55	PL	95-57-8	1
4-Chloro-3-methylphenol	51	ug/L	1	8270C	05/15/12 19:55	PL	59-50-7	1
4-Chloroaniline	28	ug/L	2	8270C	05/15/12 19:55	PL	106-47-8	1
4-Chlorophenyl phenyl ether	45	ug/L	1	8270C	05/15/12 19:55	PL	7005-72-3	1
Caprolactam	10	ug/L	1	8270C	05/15/12 19:55	PL	105-60-2	1
Carbazole	47	ug/L	1	8270C	05/15/12 19:55	PL	86-74-8	1
bis(2-Chloroethoxy)methane	39	ug/L	1	8270C	05/15/12 19:55	PL	111-91-1	1
bis(2-Chloroethyl)ether	33	ug/L	1	8270C	05/15/12 19:55	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	30	ug/L	1	8270C	05/15/12 19:55	PL	108-60-1	1
Chrysene	46	ug/L	1	8270C	05/15/12 19:55	PL	218-01-9	1
2,4-Dichlorophenol	47	ug/L	1	8270C	05/15/12 19:55	PL	120-83-2	1
2,4-Dimethylphenol	47	ug/L	1	8270C	05/15/12 19:55	PL	105-67-9	1
2,4-Dinitrophenol	43	ug/L	1	8270C	05/15/12 19:55	PL	51-28-5	1
2,4-Dinitrotoluene	49	ug/L	1	8270C	05/15/12 19:55	PL	121-14-2	1
2,6-Dinitrotoluene	48	ug/L	1	8270C	05/15/12 19:55	PL	606-20-2	1
4,6-Dinitro-2-methylphenol	49	ug/L	1	8270C	05/15/12 19:55	PL	534-52-1	1
Dibenzo(ah)anthracene	39	ug/L	1	8270C	05/15/12 19:55	PL	53-70-3	1
Dibenzofuran	44	ug/L	1	8270C	05/15/12 19:55	PL	132-64-9	1
Diethyl phthalate	47	ug/L	2	8270C	05/15/12 19:55	PL	84-66-2	1
Dimethyl phthalate	46	ug/L	2	8270C	05/15/12 19:55	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	55	ug/L	2	8270C	05/15/12 19:55	PL	117-81-7	1
Fluoranthene	45	ug/L	1	8270C	05/15/12 19:55	PL	206-44-0	1
Fluorene	45	ug/L	1	8270C	05/15/12 19:55	PL	86-73-7	1
Hexachlorobutadiene	36	ug/L	1	8270C	05/15/12 19:55	PL	87-68-3	1
Hexachlorocyclopentadiene	29	ug/L	1	8270C	05/15/12 19:55	PL	77-47-4	1
Hexachloroethane	33	ug/L	1	8270C	05/15/12 19:55	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	36	ug/L	1	8270C	05/15/12 19:55	PL	193-39-5	1
Isophorone	40	ug/L	1	8270C	05/15/12 19:55	PL	78-59-1	1
2-Methylnaphthalene	39	ug/L	1	8270C	05/15/12 19:55	PL	91-57-6	1
2-Methylphenol	41	ug/L	1	8270C	05/15/12 19:55	PL	95-48-7	1
3-, 4-Methylphenol	87	ug/L	1	8270C	05/15/12 19:55	PL	3/4-Cresol	1
2-Nitroaniline	49	ug/L	1	8270C	05/15/12 19:55	PL	88-74-4	1
2-Nitrophenol	44	ug/L	1	8270C	05/15/12 19:55	PL	88-75-5	1
3-Nitroaniline	34	ug/L	1	8270C	05/15/12 19:55	PL	99-09-2	1
4-Nitroaniline	48	ug/L	1	8270C	05/15/12 19:55	PL	100-01-6	1
4-Nitrophenol	44	ug/L	1	8270C	05/15/12 19:55	PL	100-02-7	1
N-Nitrosodi-n-propylamine	42	ug/L	1	8270C	05/15/12 19:55	PL	621-64-7	1
N-Nitrosodiphenylamine	43	ug/L	1	8270C	05/15/12 19:55	PL	86-30-6	1
Naphthalene	39	ug/L	1	8270C	05/15/12 19:55	PL	91-20-3	1
Nitrobenzene	40	ug/L	1	8270C	05/15/12 19:55	PL	98-95-3	1
di-n-Octyl phthalate	67	ug/L	1	8270C	05/15/12 19:55	PL	117-84-0	1
Pentachlorophenol	43	ug/L	1	8270C	05/15/12 19:55	PL	87-86-5	1
Phenanthrene	45	ug/L	1	8270C	05/15/12 19:55	PL	85-01-8	1

1-Sample spiked at 0.051 mg/l



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.19 (continued)

Sample Tag: VAP-A5.1-MT115_12.5-13.5 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Phenol	28	ug/L	1	8270C	05/15/12 19:55	PL	108-95-2	1
Pyrene	47	ug/L	1	8270C	05/15/12 19:55	PL	129-00-0	1
2,4,5-Trichlorophenol	52	ug/L	1	8270C	05/15/12 19:55	PL	95-95-4	1
2,4,6-Trichlorophenol	51	ug/L	1	8270C	05/15/12 19:55	PL	88-06-2	1

1-Sample spiked at 0.051 mg/l



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.20
Sample Tag: VAP-A5.1-MT115_19-20
Collected Date/Time: 05/11/2012 11:35
Matrix: Groundwater
COC Reference: 67631

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.4	IR
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/14/12 22:46	EMR		
Mercury Digestion	Completed			7471A	05/21/12 10:45	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:20	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:20	SLS	7440-38-2	
Barium, Dissolved	0.073	mg/L	0.010	6020	05/21/12 19:20	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 19:20	SLS	7440-41-7	
Boron, Dissolved	0.15	mg/L	0.04	6020	05/21/12 19:20	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 19:20	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 19:20	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 19:20	SLS	7440-48-4	
Copper, Dissolved	0.002	mg/L	0.002	6020	05/21/12 19:20	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:20	SLS	7439-92-1	
Manganese, Dissolved	0.276	mg/L	0.010	6020	05/21/12 19:20	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/21/12 15:02	JRT	7439-97-6	
Nickel, Dissolved	0.020	mg/L	0.010	6020	05/21/12 19:20	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:20	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 13:44	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:20	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:20	SLS	7440-62-2	
Zinc, Dissolved	0.015	mg/L	0.010	6020	05/21/12 19:20	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.07	8270C	05/15/12 22:04	PL	91-94-1	
Hexachlorobenzene	0.13	ug/L	0.07	8270C	05/15/12 22:04	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	205-99-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.20 (continued)

Sample Tag: VAP-A5.1-MT115_19-20

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	3	8270C	05/15/12 20:24	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	7005-72-3	
Caprolactam	1	ug/L	1	8270C	05/15/12 20:24	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	3	8270C	05/15/12 20:24	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	3	8270C	05/15/12 20:24	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	14	ug/L	3	8270C	05/15/12 20:24	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	129-00-0	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.20 (continued)

Sample Tag: VAP-A5.1-MT115_19-20

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 20:24	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.21
Sample Tag: VAP-A5.1-MT115_25-26
Collected Date/Time: 05/11/2012 13:50
Matrix: Groundwater
COC Reference: 67631

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.4	IR
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/14/12 22:46	EMR		
Mercury Digestion	Completed			7471A	05/21/12 10:45	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:24	SLS	7440-36-0	
Arsenic, Dissolved	0.014	mg/L	0.002	6020	05/21/12 19:24	SLS	7440-38-2	
Barium, Dissolved	0.532	mg/L	0.010	6020	05/21/12 19:24	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 19:24	SLS	7440-41-7	
Boron, Dissolved	0.12	mg/L	0.04	6020	05/21/12 19:24	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 19:24	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 19:24	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 19:24	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:24	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:24	SLS	7439-92-1	
Manganese, Dissolved	0.132	mg/L	0.010	6020	05/21/12 19:24	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/21/12 15:04	JRT	7439-97-6	
Nickel, Dissolved	0.013	mg/L	0.010	6020	05/21/12 19:24	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:24	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 13:46	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:24	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:24	SLS	7440-62-2	
Zinc, Dissolved	0.011	mg/L	0.010	6020	05/21/12 19:24	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/15/12 22:32	PL	91-94-1	
Hexachlorobenzene	0.10	ug/L	0.05	8270C	05/15/12 22:32	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	205-99-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.21 (continued)

Sample Tag: VAP-A5.1-MT115_25-26

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/15/12 20:53	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/15/12 20:53	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	05/15/12 20:53	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	4	ug/L	2	8270C	05/15/12 20:53	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	129-00-0	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.21 (continued)

Sample Tag: VAP-A5.1-MT115_25-26

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 20:53	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.22
Sample Tag: Trip Blank
Collected Date/Time: 05/11/2012 00:01
Matrix: Groundwater
COC Reference: 67631

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				05/14/12 11:45	ASB		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.23
Sample Tag: VAP-A5.1-DUP28
Collected Date/Time: 05/11/2012 00:01
Matrix: Groundwater
COC Reference: 67631

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.4	IR
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/14/12 22:46	EMR		
Mercury Digestion	Completed			7471A	05/21/12 10:45	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:28	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:28	SLS	7440-38-2	
Barium, Dissolved	0.112	mg/L	0.010	6020	05/21/12 19:28	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 19:28	SLS	7440-41-7	
Boron, Dissolved	0.25	mg/L	0.04	6020	05/21/12 19:28	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 19:28	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 19:28	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 19:28	SLS	7440-48-4	
Copper, Dissolved	0.002	mg/L	0.002	6020	05/21/12 19:28	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:28	SLS	7439-92-1	
Manganese, Dissolved	1.38	mg/L	0.010	6020	05/21/12 19:28	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/21/12 15:06	JRT	7439-97-6	
Nickel, Dissolved	0.029	mg/L	0.010	6020	05/21/12 19:28	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:28	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 13:48	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:28	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:28	SLS	7440-62-2	
Zinc, Dissolved	0.034	mg/L	0.010	6020	05/21/12 19:28	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/21/12 17:42	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/21/12 17:42	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	205-99-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.23 (continued)

Sample Tag: VAP-A5.1-DUP28

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/15/12 21:22	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/15/12 21:22	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	05/15/12 21:22	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/15/12 21:22	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	129-00-0	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.23 (continued)

Sample Tag: VAP-A5.1-DUP28

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/15/12 21:22	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.24
Sample Tag: VAP-A5.1-DUP27
Collected Date/Time: 05/11/2012 00:01
Matrix: Soil
COC Reference: 67631

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 22:08	EMR		
Mercury Digestion	Completed			7471A	05/18/12 11:45	JRH		
Metal Digestion	Completed			3050B	05/17/12 12:00	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	05/15/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 15:41	PER	7440-36-0	
Arsenic	1.71	mg/kg	0.10	6020	05/17/12 15:41	PER	7440-38-2	
Barium	28.7	mg/kg	1.0	6020	05/17/12 15:41	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 15:41	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 15:41	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	05/17/12 15:41	PER	7440-43-9	
Chromium	3.34	mg/kg	0.20	6020	05/17/12 15:41	PER	7440-47-3	
Cobalt	2.50	mg/kg	0.20	6020	05/17/12 15:41	PER	7440-48-4	
Copper	7.07	mg/kg	0.20	6020	05/17/12 15:41	PER	7440-50-8	
Lead	3.94	mg/kg	0.20	6020	05/17/12 15:41	PER	7439-92-1	
Manganese	251	mg/kg	0.20	6020	05/17/12 15:41	PER	7439-96-5	
Mercury	0.0141	mg/kg	0.0059	7471A	05/18/12 14:55	JRT	7439-97-6	
Nickel	7.56	mg/kg	0.20	6020	05/17/12 15:41	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 15:41	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 15:41	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 15:41	PER	7440-28-0	
Vanadium	9.12	mg/kg	0.20	6020	05/17/12 15:41	PER	7440-62-2	
Zinc	10.3	mg/kg	1.0	6020	05/17/12 15:41	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/18/12 18:06	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	207-08-9	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.24 (continued)

Sample Tag: VAP-A5.1-DUP27

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/18/12 18:06	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/18/12 18:06	PL	84-66-2	
Dimethyl phthalate	300	ug/kg	40	8270C	05/18/12 18:06	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/18/12 18:06	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/18/12 18:06	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/18/12 18:06	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52499.24 (continued)

Sample Tag: VAP-A5.1-DUP27

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/18/12 18:06	PL	88-06-2	



67631

INVOICE TO

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208		E-MAIL ADDRESS dfavero@racertrust.org	

Certifications

☐ OHIO VAP ☐ Drinking Water

☐ DoD ☐ NPDES

Project Locations

☐ Detroit ☐ New York

☐ Other _____

Special Instructions

Containers & Preservatives

RELINQUISHED BY: SIGNATURE/ORGANIZATION 			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION 			DATE 5-11-12	TIME 1645
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL <u>4.9</u>	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		

Rev. 1.15.12



Analytical Laboratory Report

Report ID: S52502.01(01)
Generated on 05/22/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52502.01-S52502.02
Project: Lansing Plant #2 Project# B0064479.2012
Collected Date: 05/14/2012
Submitted Date/Time: 05/15/2012 09:15
Sampled by: Meryl Hicks/ AW
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (2 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52502.01	VAP-A5.2-NV119_33-34	Soil	05/14/2012 16:50
S52502.02	VAP-A5.2-NV119_38-39	Soil	05/14/2012 17:00



Analytical Laboratory Report

Lab Sample ID: S52502.01
Sample Tag: VAP-A5.2-NV119_33-34
Collected Date/Time: 05/14/2012 16:50
Matrix: Soil
COC Reference: 67629

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 22:08	EMR		
Extraction, PCB	Completed			3550B	05/16/12 10:25	CCM		
Mercury Digestion	Completed			7471A	05/18/12 11:45	JRH		
Metal Digestion	Completed			3050B	05/17/12 12:00	PER		

Inorganics

Total Solids	96	%	1	Std M 2540 B	05/15/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 15:55	PER	7440-36-0	
Arsenic	2.38	mg/kg	0.10	6020	05/17/12 15:55	PER	7440-38-2	
Barium	4.09	mg/kg	1.0	6020	05/17/12 15:55	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 15:55	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 15:55	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 15:55	PER	7440-43-9	
Chromium	0.75	mg/kg	0.20	6020	05/17/12 15:55	PER	7440-47-3	
Cobalt	1.05	mg/kg	0.20	6020	05/17/12 15:55	PER	7440-48-4	
Copper	2.45	mg/kg	0.20	6020	05/17/12 15:55	PER	7440-50-8	
Lead	2.11	mg/kg	0.20	6020	05/17/12 15:55	PER	7439-92-1	
Manganese	143	mg/kg	0.20	6020	05/17/12 15:55	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0051	7471A	05/18/12 14:57	JRT	7439-97-6	
Nickel	4.13	mg/kg	0.20	6020	05/17/12 15:55	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 15:55	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 15:55	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 15:55	PER	7440-28-0	
Vanadium	1.24	mg/kg	0.20	6020	05/17/12 15:55	PER	7440-62-2	
Zinc	13.6	mg/kg	1.0	6020	05/17/12 15:55	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/16/12 14:24	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/16/12 14:24	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/16/12 14:24	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/16/12 14:24	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/16/12 14:24	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/16/12 14:24	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/16/12 14:24	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	208-96-8	
Acetophenone	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52502.01 (continued)

Sample Tag: VAP-A5.2-NV119_33-34

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	120-12-7	
Atrazine	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/18/12 18:35	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	105-60-2	
Carbazole	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	108-60-1	
Chrysene	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/18/12 18:35	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/18/12 18:35	PL	84-66-2	
Dimethyl phthalate	240	ug/kg	30	8270C	05/18/12 18:35	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/18/12 18:35	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	206-44-0	
Fluorene	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	193-39-5	
Isophorone	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/18/12 18:35	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52502.01 (continued)

Sample Tag: VAP-A5.2-NV119_33-34

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	86-30-6	
Naphthalene	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/18/12 18:35	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	85-01-8	
Phenol	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	108-95-2	
Pyrene	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	30	8270C	05/18/12 18:35	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52502.02
Sample Tag: VAP-A5.2-NV119_38-39
Collected Date/Time: 05/14/2012 17:00
Matrix: Soil
COC Reference: 67629

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/15/12 22:08	EMR		
Extraction, PCB	Completed			3550B	05/16/12 10:25	CCM		
Mercury Digestion	Completed			7471A	05/18/12 11:45	JRH		
Metal Digestion	Completed			3050B	05/17/12 12:00	PER		

Inorganics

Total Solids	98	%	1	Std M 2540 B	05/15/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/17/12 15:57	PER	7440-36-0	
Arsenic	2.59	mg/kg	0.10	6020	05/17/12 15:57	PER	7440-38-2	
Barium	3.64	mg/kg	1.0	6020	05/17/12 15:57	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/17/12 15:57	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/17/12 15:57	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/17/12 15:57	PER	7440-43-9	
Chromium	0.92	mg/kg	0.20	6020	05/17/12 15:57	PER	7440-47-3	
Cobalt	1.45	mg/kg	0.20	6020	05/17/12 15:57	PER	7440-48-4	
Copper	3.24	mg/kg	0.20	6020	05/17/12 15:57	PER	7440-50-8	
Lead	2.34	mg/kg	0.20	6020	05/17/12 15:57	PER	7439-92-1	
Manganese	171	mg/kg	0.20	6020	05/17/12 15:57	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0051	7471A	05/18/12 14:59	JRT	7439-97-6	
Nickel	4.93	mg/kg	0.20	6020	05/17/12 15:57	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/17/12 15:57	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/17/12 15:57	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/17/12 15:57	PER	7440-28-0	
Vanadium	1.23	mg/kg	0.20	6020	05/17/12 15:57	PER	7440-62-2	
Zinc	3.99	mg/kg	1.0	6020	05/17/12 15:57	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/16/12 14:34	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/16/12 14:34	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/16/12 14:34	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/16/12 14:34	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/16/12 14:34	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/16/12 14:34	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/16/12 14:34	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	208-96-8	
Acetophenone	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52502.02 (continued)

Sample Tag: VAP-A5.2-NV119_38-39

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	120-12-7	
Atrazine	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/18/12 19:04	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	105-60-2	
Carbazole	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	108-60-1	
Chrysene	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/18/12 19:04	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/18/12 19:04	PL	84-66-2	
Dimethyl phthalate	330	ug/kg	30	8270C	05/18/12 19:04	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/18/12 19:04	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	206-44-0	
Fluorene	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	193-39-5	
Isophorone	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/18/12 19:04	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52502.02 (continued)

Sample Tag: VAP-A5.2-NV119_38-39

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	86-30-6	
Naphthalene	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/18/12 19:04	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	85-01-8	
Phenol	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	108-95-2	
Pyrene	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	30	8270C	05/18/12 19:04	PL	88-06-2	

**INVOICE TO**☐ SAME

COMPANY
RACER TRUST

ADDRESS
2930 Ecorse Road

CITY	STATE	ZIP CODE
------	-------	----------

PHONE NO.	E-MAIL ADDRESS
-----------	----------------

[illegible]

Task: 5

Meryl Hicks / Austin West

☒ STANDARD ☐ OTHERIV ☐ EDD ☐ OTHER

Containers & Preservatives

VOCs - 1,4-dioxin
SVOCs hold
PCB:
Metals (wt/wt)

HCl
HNO ₃
H ₂ SO ₄
NaOH
MeOH
OTHER

Certifications

☐ OHIO VAP ☐ Drinking Water

☐ DOD ☐ NPDES

Project Locations

☐ Detroit ☐ New York

☐ Other _____

Special Instructions

[illegible][illegible]

RELINQUISHED BY: _____ DATE _____ TIME _____
SIGNATURE/ORGANIZATION

DATE 5-15-17 TIME 0915

SEAL NO.	SEAL INTACT	INITIALS	NOTES:	TEMP ON ARRIVAL
				4.3

	YES	NO	
SEAL NO.			INITIALS
SEAL INTACT			
VECT			
VIC			

Rev. 1.15.12



Analytical Laboratory Report

Report ID: S52514.01(01)
Generated on 05/30/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52514.01-S52514.11
Project: Lansing Plant #2 Project# B0064479.2012
Collected Date: 05/15/2012
Submitted Date/Time: 05/16/2012 09:50
Sampled by: Meryl Hicks/AW
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (11 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52514.01	VAP-A5.2-NV119_43-44	Soil	05/15/2012 09:05
S52514.02	VAP-A5.2-NV119_48-49	Soil	05/15/2012 09:20
S52514.03	VAP-A5.2-NV119_53-54	Soil	05/15/2012 09:35
S52514.04	VAP-A5.2-NV119_57.5-58.5	Soil	05/15/2012 09:55
S52514.05	VAP-A5.2-NV119_62-63	Soil	05/15/2012 10:20
S52514.06	VAP-A5.2-NK132_1-2	Soil	05/15/2012 14:45
S52514.07	VAP-A5.2-NK132_8-9	Soil	05/15/2012 15:30
S52514.08	VAP-A5.2-NK132_10-11	Groundwater	05/15/2012 16:05
S52514.09	Trip Blank	Groundwater	05/15/2012 00:01
S52514.10	VAP-A5.2-DUP33	Groundwater	05/15/2012 00:01
S52514.11	VAP-A5.2-DUP26	Soil	05/15/2012 00:01



Analytical Laboratory Report

Lab Sample ID: S52514.01
Sample Tag: VAP-A5.2-NV119_43-44
Collected Date/Time: 05/15/2012 09:05
Matrix: Soil
COC Reference: 67640

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/16/12 22:22	EMR		
BNA Extraction (Replicate 01)	Completed			3550B	05/22/12 23:18	EMR		
Extraction, PCB	Completed			3550B	05/17/12 10:00	CCM		
Mercury Digestion	Completed			7471A	05/23/12 09:30	JRH		
Metal Digestion	Completed			3050B	05/21/12 14:00	PER		

Inorganics

Total Solids	98	%	1	Std M 2540 B	05/16/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/21/12 17:02	PER	7440-36-0	
Arsenic	3.53	mg/kg	0.10	6020	05/21/12 17:02	PER	7440-38-2	
Barium	4.55	mg/kg	1.0	6020	05/21/12 17:02	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/21/12 17:02	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/21/12 17:02	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/21/12 17:02	PER	7440-43-9	
Chromium	0.61	mg/kg	0.20	6020	05/21/12 17:02	PER	7440-47-3	
Cobalt	1.78	mg/kg	0.20	6020	05/21/12 17:02	PER	7440-48-4	
Copper	3.59	mg/kg	0.20	6020	05/21/12 17:02	PER	7440-50-8	
Lead	2.58	mg/kg	0.20	6020	05/21/12 17:02	PER	7439-92-1	
Manganese	135	mg/kg	0.20	6020	05/21/12 17:02	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0050	7471A	05/23/12 14:20	JRT	7439-97-6	
Nickel	5.03	mg/kg	0.20	6020	05/21/12 17:02	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/21/12 17:02	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/21/12 17:02	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/21/12 17:02	PER	7440-28-0	
Vanadium	1.49	mg/kg	0.20	6020	05/21/12 17:02	PER	7440-62-2	
Zinc	5.65	mg/kg	1.0	6020	05/21/12 17:02	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/18/12 16:42	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/18/12 16:42	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/18/12 16:42	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/18/12 16:42	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/18/12 16:42	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/18/12 16:42	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/18/12 16:42	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	208-96-8	



Analytical Laboratory Report

Lab Sample ID: S52514.01 (continued)

Sample Tag: VAP-A5.2-NV119_43-44

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	98-86-2	
Anthracene	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	120-12-7	
Atrazine	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/23/12 18:32	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	105-60-2	
Carbazole	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	108-60-1	
Chrysene	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/23/12 18:32	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/23/12 18:32	PL	84-66-2	
Dimethyl phthalate	200	ug/kg	30	8270C	05/23/12 18:32	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/23/12 18:32	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	206-44-0	
Fluorene	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	193-39-5	
Isophorone	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/23/12 18:32	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	88-74-4	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52514.01 (continued)

Sample Tag: VAP-A5.2-NV119_43-44

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	86-30-6	
Naphthalene	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/23/12 18:32	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	85-01-8	
Phenol	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	108-95-2	
Pyrene	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	30	8270C	05/23/12 18:32	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52514.02
Sample Tag: VAP-A5.2-NV119_48-49
Collected Date/Time: 05/15/2012 09:20
Matrix: Soil
COC Reference: 67640

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/16/12 22:22	EMR		
BNA Extraction (Replicate 01)	Completed			3550B	05/22/12 23:18	EMR		
Extraction, PCB	Completed			3550B	05/17/12 10:00	CCM		
Mercury Digestion	Completed			7471A	05/23/12 09:30	JRH		
Metal Digestion	Completed			3050B	05/21/12 14:00	PER		

Inorganics

Total Solids	99	%	1	Std M 2540 B	05/16/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/21/12 17:05	PER	7440-36-0	
Arsenic	3.27	mg/kg	0.10	6020	05/21/12 17:05	PER	7440-38-2	
Barium	3.86	mg/kg	1.0	6020	05/21/12 17:05	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/21/12 17:05	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/21/12 17:05	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/21/12 17:05	PER	7440-43-9	
Chromium	0.65	mg/kg	0.20	6020	05/21/12 17:05	PER	7440-47-3	
Cobalt	1.47	mg/kg	0.20	6020	05/21/12 17:05	PER	7440-48-4	
Copper	2.36	mg/kg	0.20	6020	05/21/12 17:05	PER	7440-50-8	
Lead	2.16	mg/kg	0.20	6020	05/21/12 17:05	PER	7439-92-1	
Manganese	145	mg/kg	0.20	6020	05/21/12 17:05	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0051	7471A	05/23/12 14:22	JRT	7439-97-6	
Nickel	4.24	mg/kg	0.20	6020	05/21/12 17:05	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/21/12 17:05	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/21/12 17:05	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/21/12 17:05	PER	7440-28-0	
Vanadium	1.23	mg/kg	0.20	6020	05/21/12 17:05	PER	7440-62-2	
Zinc	11.0	mg/kg	1.0	6020	05/21/12 17:05	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/18/12 16:53	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/18/12 16:53	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/18/12 16:53	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/18/12 16:53	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/18/12 16:53	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/18/12 16:53	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/18/12 16:53	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	208-96-8	



Analytical Laboratory Report

Lab Sample ID: S52514.02 (continued)

Sample Tag: VAP-A5.2-NV119_48-49

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	98-86-2	
Anthracene	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	120-12-7	
Atrazine	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/23/12 19:02	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	105-60-2	
Carbazole	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	108-60-1	
Chrysene	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/23/12 19:02	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/23/12 19:02	PL	84-66-2	
Dimethyl phthalate	160	ug/kg	30	8270C	05/23/12 19:02	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/23/12 19:02	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	206-44-0	
Fluorene	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	193-39-5	
Isophorone	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/23/12 19:02	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	88-74-4	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52514.02 (continued)

Sample Tag: VAP-A5.2-NV119_48-49

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	86-30-6	
Naphthalene	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/23/12 19:02	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	85-01-8	
Phenol	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	108-95-2	
Pyrene	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	30	8270C	05/23/12 19:02	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52514.03
Sample Tag: VAP-A5.2-NV119_53-54
Collected Date/Time: 05/15/2012 09:35
Matrix: Soil
COC Reference: 67640

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/16/12 22:22	EMR		
BNA Extraction (Replicate 01)	Completed			3550B	05/22/12 23:18	EMR		
Extraction, PCB	Completed			3550B	05/17/12 10:00	CCM		
Mercury Digestion	Completed			7471A	05/23/12 09:30	JRH		
Metal Digestion	Completed			3050B	05/21/12 14:00	PER		

Inorganics

Total Solids	97	%	1	Std M 2540 B	05/16/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/21/12 17:19	PER	7440-36-0	
Arsenic	3.11	mg/kg	0.10	6020	05/21/12 17:19	PER	7440-38-2	
Barium	4.76	mg/kg	1.0	6020	05/21/12 17:19	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/21/12 17:19	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/21/12 17:19	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/21/12 17:19	PER	7440-43-9	
Chromium	0.60	mg/kg	0.20	6020	05/21/12 17:19	PER	7440-47-3	
Cobalt	1.52	mg/kg	0.20	6020	05/21/12 17:19	PER	7440-48-4	
Copper	3.19	mg/kg	0.20	6020	05/21/12 17:19	PER	7440-50-8	
Lead	2.57	mg/kg	0.20	6020	05/21/12 17:19	PER	7439-92-1	
Manganese	129	mg/kg	0.20	6020	05/21/12 17:19	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0051	7471A	05/23/12 14:25	JRT	7439-97-6	
Nickel	4.30	mg/kg	0.20	6020	05/21/12 17:19	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/21/12 17:19	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/21/12 17:19	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/21/12 17:19	PER	7440-28-0	
Vanadium	1.34	mg/kg	0.20	6020	05/21/12 17:19	PER	7440-62-2	
Zinc	8.20	mg/kg	1.0	6020	05/21/12 17:19	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/18/12 17:04	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/18/12 17:04	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/18/12 17:04	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/18/12 17:04	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/18/12 17:04	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/18/12 17:04	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/18/12 17:04	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	208-96-8	



Analytical Laboratory Report

Lab Sample ID: S52514.03 (continued)

Sample Tag: VAP-A5.2-NV119_53-54

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	98-86-2	
Anthracene	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	120-12-7	
Atrazine	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/23/12 19:31	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	105-60-2	
Carbazole	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	108-60-1	
Chrysene	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/23/12 19:31	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/23/12 19:31	PL	84-66-2	
Dimethyl phthalate	60	ug/kg	30	8270C	05/23/12 19:31	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/23/12 19:31	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	206-44-0	
Fluorene	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	193-39-5	
Isophorone	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/23/12 19:31	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	88-74-4	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52514.03 (continued)

Sample Tag: VAP-A5.2-NV119_53-54

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	86-30-6	
Naphthalene	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/23/12 19:31	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	85-01-8	
Phenol	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	108-95-2	
Pyrene	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	30	8270C	05/23/12 19:31	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52514.04
Sample Tag: VAP-A5.2-NV119_57.5-58.5
Collected Date/Time: 05/15/2012 09:55
Matrix: Soil
COC Reference: 67640

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/16/12 22:22	EMR		
BNA Extraction (Replicate 01)	Completed			3550B	05/22/12 23:18	EMR		
Extraction, PCB	Completed			3550B	05/17/12 10:00	CCM		
Mercury Digestion	Completed			7471A	05/23/12 09:30	JRH		
Metal Digestion	Completed			3050B	05/21/12 14:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/16/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/21/12 17:21	PER	7440-36-0	
Arsenic	3.30	mg/kg	0.10	6020	05/21/12 17:21	PER	7440-38-2	
Barium	20.4	mg/kg	1.0	6020	05/21/12 17:21	PER	7440-39-3	
Beryllium	0.21	mg/kg	0.20	6020	05/21/12 17:21	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/21/12 17:21	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/21/12 17:21	PER	7440-43-9	
Chromium	2.65	mg/kg	0.20	6020	05/21/12 17:21	PER	7440-47-3	
Cobalt	4.08	mg/kg	0.20	6020	05/21/12 17:21	PER	7440-48-4	
Copper	7.69	mg/kg	0.20	6020	05/21/12 17:21	PER	7440-50-8	
Lead	8.98	mg/kg	0.20	6020	05/21/12 17:21	PER	7439-92-1	
Manganese	304	mg/kg	0.20	6020	05/21/12 17:21	PER	7439-96-5	
Mercury	0.0173	mg/kg	0.0056	7471A	05/23/12 14:27	JRT	7439-97-6	
Nickel	8.69	mg/kg	0.20	6020	05/21/12 17:21	PER	7440-02-0	
Selenium	0.41	mg/kg	0.20	6020	05/21/12 17:21	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/21/12 17:21	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/21/12 17:21	PER	7440-28-0	
Vanadium	4.74	mg/kg	0.20	6020	05/21/12 17:21	PER	7440-62-2	
Zinc	20.9	mg/kg	1.0	6020	05/21/12 17:21	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/18/12 17:14	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/18/12 17:14	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/18/12 17:14	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/18/12 17:14	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/18/12 17:14	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/18/12 17:14	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/18/12 17:14	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	208-96-8	



Analytical Laboratory Report

Lab Sample ID: S52514.04 (continued)
Sample Tag: VAP-A5.2-NV119_57.5-58.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/23/12 20:00	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/23/12 20:00	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/23/12 20:00	PL	84-66-2	
Dimethyl phthalate	90	ug/kg	40	8270C	05/23/12 20:00	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/23/12 20:00	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/23/12 20:00	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	88-74-4	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52514.04 (continued)

Sample Tag: VAP-A5.2-NV119_57.5-58.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/23/12 20:00	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/23/12 20:00	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52514.05
Sample Tag: VAP-A5.2-NV119_62-63
Collected Date/Time: 05/15/2012 10:20
Matrix: Soil
COC Reference: 67640

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/16/12 22:22	EMR		
BNA Extraction (Replicate 01)	Completed			3550B	05/22/12 23:18	EMR		
Extraction, PCB	Completed			3550B	05/18/12 09:00	CCM		
Mercury Digestion	Completed			7471A	05/23/12 09:30	JRH		
Metal Digestion	Completed			3050B	05/21/12 14:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/16/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/21/12 17:23	PER	7440-36-0	
Arsenic	3.42	mg/kg	0.10	6020	05/21/12 17:23	PER	7440-38-2	
Barium	6.79	mg/kg	1.0	6020	05/21/12 17:23	PER	7440-39-3	
Beryllium	0.23	mg/kg	0.20	6020	05/21/12 17:23	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/21/12 17:23	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/21/12 17:23	PER	7440-43-9	
Chromium	1.23	mg/kg	0.20	6020	05/21/12 17:23	PER	7440-47-3	
Cobalt	5.34	mg/kg	0.20	6020	05/21/12 17:23	PER	7440-48-4	
Copper	8.71	mg/kg	0.20	6020	05/21/12 17:23	PER	7440-50-8	
Lead	11.4	mg/kg	0.20	6020	05/21/12 17:23	PER	7439-92-1	
Manganese	83.0	mg/kg	0.20	6020	05/21/12 17:23	PER	7439-96-5	
Mercury	0.0402	mg/kg	0.0056	7471A	05/23/12 14:29	JRT	7439-97-6	
Nickel	16.1	mg/kg	0.20	6020	05/21/12 17:23	PER	7440-02-0	
Selenium	0.56	mg/kg	0.20	6020	05/21/12 17:23	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/21/12 17:23	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/21/12 17:23	PER	7440-28-0	
Vanadium	1.95	mg/kg	0.20	6020	05/21/12 17:23	PER	7440-62-2	
Zinc	6.40	mg/kg	1.0	6020	05/21/12 17:23	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/18/12 17:56	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/18/12 17:56	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/18/12 17:56	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/18/12 17:56	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/18/12 17:56	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/18/12 17:56	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/18/12 17:56	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	208-96-8	



Analytical Laboratory Report

Lab Sample ID: S52514.05 (continued)

Sample Tag: VAP-A5.2-NV119_62-63

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/23/12 20:29	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/23/12 20:29	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/23/12 20:29	PL	84-66-2	
Dimethyl phthalate	50	ug/kg	40	8270C	05/23/12 20:29	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/23/12 20:29	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/23/12 20:29	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	88-74-4	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52514.05 (continued)

Sample Tag: VAP-A5.2-NV119_62-63

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/23/12 20:29	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/23/12 20:29	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52514.06
Sample Tag: VAP-A5.2-NK132_1-2
Collected Date/Time: 05/15/2012 14:45
Matrix: Soil
COC Reference: 67640

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/16/12 22:22	EMR		
BNA Extraction (Replicate 01)	Completed			3550B	05/22/12 23:18	EMR		
Extraction, PCB	Completed			3550B	05/18/12 09:00	CCM		
Mercury Digestion	Completed			7471A	05/23/12 09:30	JRH		
Metal Digestion	Completed			3050B	05/21/12 14:00	PER		

Inorganics

Total Solids	95	%	1	Std M 2540 B	05/16/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/21/12 17:26	PER	7440-36-0	
Arsenic	0.96	mg/kg	0.10	6020	05/21/12 17:26	PER	7440-38-2	
Barium	6.38	mg/kg	1.0	6020	05/21/12 17:26	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/21/12 17:26	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/21/12 17:26	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/21/12 17:26	PER	7440-43-9	
Chromium	1.21	mg/kg	0.20	6020	05/21/12 17:26	PER	7440-47-3	
Cobalt	1.05	mg/kg	0.20	6020	05/21/12 17:26	PER	7440-48-4	
Copper	3.74	mg/kg	0.20	6020	05/21/12 17:26	PER	7440-50-8	
Lead	2.23	mg/kg	0.20	6020	05/21/12 17:26	PER	7439-92-1	
Manganese	82.7	mg/kg	0.20	6020	05/21/12 17:26	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0051	7471A	05/23/12 14:31	JRT	7439-97-6	
Nickel	3.30	mg/kg	0.20	6020	05/21/12 17:26	PER	7440-02-0	
Selenium	0.22	mg/kg	0.20	6020	05/21/12 17:26	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/21/12 17:26	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/21/12 17:26	PER	7440-28-0	
Vanadium	2.81	mg/kg	0.20	6020	05/21/12 17:26	PER	7440-62-2	
Zinc	6.64	mg/kg	1.0	6020	05/21/12 17:26	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/18/12 18:39	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/18/12 18:39	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/18/12 18:39	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/18/12 18:39	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/18/12 18:39	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/18/12 18:39	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/18/12 18:39	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	208-96-8	



Analytical Laboratory Report

Lab Sample ID: S52514.06 (continued)

Sample Tag: VAP-A5.2-NK132_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/23/12 20:59	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/23/12 20:59	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/23/12 20:59	PL	84-66-2	
Dimethyl phthalate	90	ug/kg	40	8270C	05/23/12 20:59	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/23/12 20:59	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/23/12 20:59	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	88-74-4	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52514.06 (continued)

Sample Tag: VAP-A5.2-NK132_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/23/12 20:59	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/23/12 20:59	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52514.07
Sample Tag: VAP-A5.2-NK132_8-9
Collected Date/Time: 05/15/2012 15:30
Matrix: Soil
COC Reference: 67640

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/17/12 22:26	EMR		
Extraction, PCB	Completed			3550B	05/18/12 09:00	CCM		
Mercury Digestion	Completed			7471A	05/23/12 09:30	JRH		
Metal Digestion	Completed			3050B	05/21/12 14:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	05/16/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/21/12 17:28	PER	7440-36-0	
Arsenic	1.19	mg/kg	0.10	6020	05/21/12 17:28	PER	7440-38-2	
Barium	3.63	mg/kg	1.0	6020	05/21/12 17:28	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/21/12 17:28	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/21/12 17:28	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/21/12 17:28	PER	7440-43-9	
Chromium	0.90	mg/kg	0.20	6020	05/21/12 17:28	PER	7440-47-3	
Cobalt	1.13	mg/kg	0.20	6020	05/21/12 17:28	PER	7440-48-4	
Copper	4.47	mg/kg	0.20	6020	05/21/12 17:28	PER	7440-50-8	
Lead	3.98	mg/kg	0.20	6020	05/21/12 17:28	PER	7439-92-1	
Manganese	106	mg/kg	0.20	6020	05/21/12 17:28	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0054	7471A	05/23/12 14:33	JRT	7439-97-6	
Nickel	3.61	mg/kg	0.20	6020	05/21/12 17:28	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/21/12 17:28	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/21/12 17:28	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/21/12 17:28	PER	7440-28-0	
Vanadium	1.88	mg/kg	0.20	6020	05/21/12 17:28	PER	7440-62-2	
Zinc	9.57	mg/kg	1.0	6020	05/21/12 17:28	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	100	8082A	05/21/12 12:28	JANB	12674-11-2	Y
PCB-1242	400	ug/kg	100	8082A	05/21/12 12:28	JANB	53469-21-9	Q
PCB-1221	Not detected	ug/kg	100	8082A	05/21/12 12:28	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	100	8082A	05/21/12 12:28	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	100	8082A	05/21/12 12:28	JANB	12672-29-6	Y
PCB-1254	Not detected	ug/kg	100	8082A	05/21/12 12:28	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	100	8082A	05/21/12 12:28	JANB	11096-82-5	Y

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	83-32-9	X
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Y-Elevated reporting limit due to high target concentration

Q-Reported result represents most abundant aroclor

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52514.07 (continued)

Sample Tag: VAP-A5.2-NK132_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acenaphthylene	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	98-86-2	X
Anthracene	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	120-12-7	X
Atrazine	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	05/22/12 23:10	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	105-60-2	X
Carbazole	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	108-60-1	X
Chrysene	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	05/22/12 23:10	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	05/22/12 23:10	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	05/22/12 23:10	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	206-44-0	X
Fluorene	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	193-39-5	X
Isophorone	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	05/22/12 23:10	PL	3/4-Cresol	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52514.07 (continued)

Sample Tag: VAP-A5.2-NK132_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	05/22/12 23:10	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	87-86-5	X
Phenanthrene	2,000	ug/kg	1,000	8270C	05/22/12 23:10	PL	85-01-8	X
Phenol	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	108-95-2	X
Pyrene	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	1,000	8270C	05/22/12 23:10	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52514.08
Sample Tag: VAP-A5.2-NK132_10-11
Collected Date/Time: 05/15/2012 16:05
Matrix: Groundwater
COC Reference: 67640

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.7	IR
2	40ml Glass	HCL	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/16/12 18:30	EMR		
Extraction, PCB	Completed			3510C	05/16/12 14:20	ADB		
Mercury Digestion	Completed			7471A	05/21/12 10:45	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:50	SLS	7440-36-0	
Arsenic, Dissolved	0.009	mg/L	0.002	6020	05/21/12 19:50	SLS	7440-38-2	
Barium, Dissolved	0.079	mg/L	0.010	6020	05/21/12 19:50	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 19:50	SLS	7440-41-7	
Boron, Dissolved	0.11	mg/L	0.04	6020	05/21/12 19:50	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 19:50	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 19:50	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 19:50	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:50	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:50	SLS	7439-92-1	
Manganese, Dissolved	0.378	mg/L	0.010	6020	05/21/12 19:50	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/21/12 15:20	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 19:50	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:50	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 13:59	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:50	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:50	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 19:50	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/17/12 13:32	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.1	8082A	05/17/12 13:32	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.1	8082A	05/17/12 13:32	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	8082A	05/17/12 13:32	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	8082A	05/17/12 13:32	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	8082A	05/17/12 13:32	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/17/12 13:32	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/21/12 20:08	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/21/12 20:08	PL	118-74-1	



Analytical Laboratory Report

Lab Sample ID: S52514.08 (continued)

Sample Tag: VAP-A5.2-NK132_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	83-32-9	X
Acenaphthylene	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	208-96-8	X
Acetophenone	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	98-86-2	
Anthracene	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	120-12-7	X
Atrazine	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	6	8270C	05/18/12 16:38	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	7005-72-3	
Caprolactam	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	105-60-2	
Carbazole	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	108-60-1	
Chrysene	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	120-83-2	
2,4-Dimethylphenol	24	ug/L	3	8270C	05/18/12 16:38	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	53-70-3	X
Dibenzofuran	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	6	8270C	05/18/12 16:38	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/L	6	8270C	05/18/12 16:38	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	6	8270C	05/18/12 16:38	PL	117-81-7	X
Fluoranthene	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	206-44-0	X
Fluorene	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	86-73-7	X
Hexachlorobutadiene	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	193-39-5	
Isophorone	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	91-57-6	X
2-Methylphenol	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	88-74-4	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52514.08 (continued)

Sample Tag: VAP-A5.2-NK132_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2-Nitrophenol	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	86-30-6	
Naphthalene	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	91-20-3	X
Nitrobenzene	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	87-86-5	
Phenanthrene	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	85-01-8	X
Phenol	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	108-95-2	
Pyrene	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	3	8270C	05/18/12 16:38	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	11	ug/L	5	8260B - SIM	05/29/12 11:46	WAT	123-91-1	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52514.09

Sample Tag: Trip Blank

Collected Date/Time: 05/15/2012 00:01

Matrix: Groundwater

COC Reference: 67640

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				05/16/12 10:50	PCS		



Analytical Laboratory Report

Lab Sample ID: S52514.10
Sample Tag: VAP-A5.2-DUP33
Collected Date/Time: 05/15/2012 00:01
Matrix: Groundwater
COC Reference: 67640

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.7	IR
2	40ml Glass	HCL	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/16/12 18:30	EMR		
Extraction, PCB	Completed			3510C	05/16/12 14:20	ADB		
Mercury Digestion	Completed			7471A	05/21/12 10:45	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:59	SLS	7440-36-0	
Arsenic, Dissolved	0.011	mg/L	0.002	6020	05/21/12 19:59	SLS	7440-38-2	
Barium, Dissolved	0.080	mg/L	0.010	6020	05/21/12 19:59	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 19:59	SLS	7440-41-7	
Boron, Dissolved	0.11	mg/L	0.04	6020	05/21/12 19:59	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 19:59	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 19:59	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 19:59	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:59	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:59	SLS	7439-92-1	
Manganese, Dissolved	0.374	mg/L	0.010	6020	05/21/12 19:59	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/21/12 15:22	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 19:59	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:59	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 14:05	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:59	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:59	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 19:59	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/17/12 13:43	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.1	8082A	05/17/12 13:43	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.1	8082A	05/17/12 13:43	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	8082A	05/17/12 13:43	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	8082A	05/17/12 13:43	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	8082A	05/17/12 13:43	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/17/12 13:43	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/21/12 20:37	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/21/12 20:37	PL	118-74-1	



Analytical Laboratory Report

Lab Sample ID: S52514.10 (continued)

Sample Tag: VAP-A5.2-DUP33

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	208-96-8	
Acetophenone	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	98-86-2	
Anthracene	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	120-12-7	
Atrazine	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	4	8270C	05/18/12 17:08	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	7005-72-3	
Caprolactam	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	105-60-2	
Carbazole	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	108-60-1	
Chrysene	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	120-83-2	
2,4-Dimethylphenol	13	ug/L	2	8270C	05/18/12 17:08	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	4	8270C	05/18/12 17:08	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	4	8270C	05/18/12 17:08	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	4	8270C	05/18/12 17:08	PL	117-81-7	
Fluoranthene	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	206-44-0	
Fluorene	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	193-39-5	
Isophorone	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	88-74-4	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52514.10 (continued)

Sample Tag: VAP-A5.2-DUP33

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2-Nitrophenol	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	86-30-6	
Naphthalene	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	87-86-5	
Phenanthrene	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	85-01-8	
Phenol	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	108-95-2	
Pyrene	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	2	8270C	05/18/12 17:08	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52514.11
Sample Tag: VAP-A5.2-DUP26
Collected Date/Time: 05/15/2012 00:01
Matrix: Soil
COC Reference: 67640

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/17/12 22:26	EMR		
Extraction, PCB	Completed			3550B	05/18/12 09:00	CCM		
Mercury Digestion	Completed			7471A	05/23/12 09:30	JRH		
Metal Digestion	Completed			3050B	05/21/12 14:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/16/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/21/12 17:30	PER	7440-36-0	
Arsenic	2.01	mg/kg	0.10	6020	05/21/12 17:30	PER	7440-38-2	
Barium	5.42	mg/kg	1.0	6020	05/21/12 17:30	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/21/12 17:30	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/21/12 17:30	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/21/12 17:30	PER	7440-43-9	
Chromium	1.26	mg/kg	0.20	6020	05/21/12 17:30	PER	7440-47-3	
Cobalt	3.30	mg/kg	0.20	6020	05/21/12 17:30	PER	7440-48-4	
Copper	5.68	mg/kg	0.20	6020	05/21/12 17:30	PER	7440-50-8	
Lead	7.13	mg/kg	0.20	6020	05/21/12 17:30	PER	7439-92-1	
Manganese	82.7	mg/kg	0.20	6020	05/21/12 17:30	PER	7439-96-5	
Mercury	0.0166	mg/kg	0.0055	7471A	05/23/12 14:36	JRT	7439-97-6	
Nickel	9.55	mg/kg	0.20	6020	05/21/12 17:30	PER	7440-02-0	
Selenium	0.48	mg/kg	0.20	6020	05/21/12 17:30	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/21/12 17:30	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/21/12 17:30	PER	7440-28-0	
Vanadium	1.68	mg/kg	0.20	6020	05/21/12 17:30	PER	7440-62-2	
Zinc	6.06	mg/kg	1.0	6020	05/21/12 17:30	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/18/12 18:49	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/18/12 18:49	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/18/12 18:49	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/18/12 18:49	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/18/12 18:49	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/18/12 18:49	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/18/12 18:49	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	208-96-8	
Acetophenone	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52514.11 (continued)

Sample Tag: VAP-A5.2-DUP26

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	120-12-7	
Atrazine	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	100	8270C	05/22/12 21:43	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	105-60-2	
Carbazole	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	108-60-1	
Chrysene	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	100	8270C	05/22/12 21:43	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	100	8270C	05/22/12 21:43	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	100	8270C	05/22/12 21:43	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	206-44-0	
Fluorene	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	193-39-5	
Isophorone	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	100	8270C	05/22/12 21:43	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	99-09-2	



Analytical Laboratory Report

Lab Sample ID: S52514.11 (continued)

Sample Tag: VAP-A5.2-DUP26

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	86-30-6	
Naphthalene	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	100	8270C	05/22/12 21:43	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	85-01-8	
Phenol	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	108-95-2	
Pyrene	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	70	8270C	05/22/12 21:43	PL	88-06-2	



67640

INVOICE TO

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208		E-MAIL ADDRESS dfavero@racetrust.org	

Certifications

☐ OHIO VAP ☐ Drinking Water

☐ DoD ☐ NPDES

Project Locations

☐ Detroit ☐ New York

☐ Other _____

Special Instructions

+ SVOC, PCB, and Metals GW
samples Field Filtered
+ 1,4-dioxane hold

RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES:	TEMP. ON ARRIVAL
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		

Rev. 1.15.12



Analytical Laboratory Report

Report ID: S52526.01(01)
Generated on 05/31/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52526.01-S52526.10
Project: Lansing Plant #2 Project# B0064479.2012
Collected Date: 05/16/2012
Submitted Date/Time: 05/17/2012 09:45
Sampled by: Meryl Hicks/AW
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (10 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52526.01	VAP-A5.2-NK132_14-15	Soil	05/16/2012 09:00
S52526.02	VAP-A5.2-NK132_21-22	Groundwater	05/16/2012 09:35
S52526.03	VAP-A5.2-NK132_27-28	Soil	05/16/2012 10:40
S52526.04	VAP-A5.2-NK132_30-32	Groundwater	05/16/2012 12:00
S52526.05	VAP-A5.2-NK132_37-38	Soil	05/16/2012 13:15
S52526.06	VAP-A5.2-NK132_42-43	Soil	05/16/2012 13:35
S52526.07	VAP-A5.2-NK132_47-48	Soil	05/16/2012 13:55
S52526.08	VAP-A5.2-NK132_52-53	Soil	05/16/2012 14:15
S52526.09	VAP-A5.2-NK132_57-58	Soil	05/16/2012 14:35
S52526.10	Trip Blank	Groundwater	05/16/2012 00:01



Analytical Laboratory Report

Lab Sample ID: S52526.01
Sample Tag: VAP-A5.2-NK132_14-15
Collected Date/Time: 05/16/2012 09:00
Matrix: Soil
COC Reference: 67403

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/17/12 22:26	EMR		
Extraction, PCB	Completed			3550B	05/18/12 09:00	CCM		
Mercury Digestion	Completed			7471A	05/23/12 09:30	JRH		
Metal Digestion	Completed			3050B	05/21/12 14:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/17/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/21/12 17:32	PER	7440-36-0	
Arsenic	1.19	mg/kg	0.10	6020	05/21/12 17:32	PER	7440-38-2	
Barium	28.8	mg/kg	1.0	6020	05/21/12 17:32	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/21/12 17:32	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/21/12 17:32	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/21/12 17:32	PER	7440-43-9	
Chromium	2.88	mg/kg	0.20	6020	05/21/12 17:32	PER	7440-47-3	
Cobalt	2.38	mg/kg	0.20	6020	05/21/12 17:32	PER	7440-48-4	
Copper	9.33	mg/kg	0.20	6020	05/21/12 17:32	PER	7440-50-8	
Lead	4.42	mg/kg	0.20	6020	05/21/12 17:32	PER	7439-92-1	
Manganese	220	mg/kg	0.20	6020	05/21/12 17:32	PER	7439-96-5	
Mercury	0.0107	mg/kg	0.0055	7471A	05/23/12 14:38	JRT	7439-97-6	
Nickel	7.68	mg/kg	0.20	6020	05/21/12 17:32	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/21/12 17:32	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/21/12 17:32	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/21/12 17:32	PER	7440-28-0	
Vanadium	4.85	mg/kg	0.20	6020	05/21/12 17:32	PER	7440-62-2	
Zinc	12.3	mg/kg	1.0	6020	05/21/12 17:32	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/18/12 19:11	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/18/12 19:11	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/18/12 19:11	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/18/12 19:11	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/18/12 19:11	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/18/12 19:11	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/18/12 19:11	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52526.01 (continued)

Sample Tag: VAP-A5.2-NK132_14-15

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/22/12 14:24	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/22/12 14:24	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/22/12 14:24	PL	84-66-2	
Dimethyl phthalate	60	ug/kg	40	8270C	05/22/12 14:24	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/22/12 14:24	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/22/12 14:24	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52526.01 (continued)

Sample Tag: VAP-A5.2-NK132_14-15

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/22/12 14:24	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/22/12 14:24	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52526.02
Sample Tag: VAP-A5.2-NK132_21-22
Collected Date/Time: 05/16/2012 09:35
Matrix: Groundwater
COC Reference: 67403

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.1	IR
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/18/12 13:25	EMR		
Extraction, PCB	Completed			3510C	05/17/12 14:29	CCM		
Mercury Digestion	Completed			7471A	05/21/12 10:45	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:54	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:54	SLS	7440-38-2	
Barium, Dissolved	0.090	mg/L	0.010	6020	05/21/12 19:54	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 19:54	SLS	7440-41-7	
Boron, Dissolved	0.12	mg/L	0.04	6020	05/21/12 19:54	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 19:54	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 19:54	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 19:54	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:54	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:54	SLS	7439-92-1	
Manganese, Dissolved	0.293	mg/L	0.010	6020	05/21/12 19:54	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/21/12 15:40	JRT	7439-97-6	
Nickel, Dissolved	0.026	mg/L	0.010	6020	05/21/12 19:54	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:54	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 14:01	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:54	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 19:54	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 19:54	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/18/12 15:18	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/18/12 15:18	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/18/12 15:18	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/18/12 15:18	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/18/12 15:18	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/18/12 15:18	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/18/12 15:18	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.06	8270C	05/21/12 21:05	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.06	8270C	05/21/12 21:05	PL	118-74-1	



Analytical Laboratory Report

Lab Sample ID: S52526.02 (continued)

Sample Tag: VAP-A5.2-NK132_21-22

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/25/12 14:15	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	120-83-2	
2,4-Dimethylphenol	7	ug/L	1	8270C	05/25/12 14:15	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	132-64-9	
Diethyl phthalate	2	ug/L	2	8270C	05/25/12 14:15	PL	84-66-2	
Dimethyl phthalate	3	ug/L	2	8270C	05/25/12 14:15	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/25/12 14:15	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	88-75-5	



Analytical Laboratory Report

Lab Sample ID: S52526.02 (continued)

Sample Tag: VAP-A5.2-NK132_21-22

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	85-01-8	
Phenol	1	ug/L	1	8270C	05/25/12 14:15	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/25/12 14:15	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	100	8260B - SIM	05/29/12 21:15	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	76-13-1	
Acetone	15	ug/L	10	8260B	05/24/12 04:29	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	05/24/12 04:29	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	05/24/12 04:29	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	74-87-3	
Vinyl chloride	2	ug/L	1	8260B	05/24/12 04:29	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	74-83-9	
Chloroethane	144	ug/L	1	8260B	05/24/12 04:29	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	75-69-4	
1,1-Dichloroethene	4	ug/L	1	8260B	05/24/12 04:29	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	156-60-5	
1,1-Dichloroethane	124	ug/L	1	8260B	05/24/12 04:29	WAT	75-34-3	
cis-1,2-Dichloroethene	1	ug/L	1	8260B	05/24/12 04:29	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	67-66-3	
1,1,1-Trichloroethane	185	ug/L	1	8260B	05/24/12 04:29	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	05/24/12 04:29	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	05/24/12 04:29	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	107-06-2	
Trichloroethene	3	ug/L	1	8260B	05/24/12 04:29	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	10061-01-5	



Analytical Laboratory Report

Lab Sample ID: S52526.02 (continued)

Sample Tag: VAP-A5.2-NK132_21-22

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Toluene	8	ug/L	1	8260B	05/24/12 04:29	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	05/24/12 04:29	WAT		
o-Xylene	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	05/24/12 04:29	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S52526.03
Sample Tag: VAP-A5.2-NK132_27-28
Collected Date/Time: 05/16/2012 10:40
Matrix: Soil
COC Reference: 67403

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/17/12 22:26	EMR		
Extraction, PCB	Completed			3550B	05/18/12 09:00	CCM		
Mercury Digestion	Completed			7471A	05/23/12 09:30	JRH		
Metal Digestion	Completed			3050B	05/21/12 14:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/17/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/21/12 17:40	PER	7440-36-0	
Arsenic	1.45	mg/kg	0.10	6020	05/21/12 17:40	PER	7440-38-2	
Barium	27.4	mg/kg	1.0	6020	05/21/12 17:40	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/21/12 17:40	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/21/12 17:40	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/21/12 17:40	PER	7440-43-9	
Chromium	4.05	mg/kg	0.20	6020	05/21/12 17:40	PER	7440-47-3	
Cobalt	2.55	mg/kg	0.20	6020	05/21/12 17:40	PER	7440-48-4	
Copper	7.99	mg/kg	0.20	6020	05/21/12 17:40	PER	7440-50-8	
Lead	3.71	mg/kg	0.20	6020	05/21/12 17:40	PER	7439-92-1	
Manganese	226	mg/kg	0.20	6020	05/21/12 17:40	PER	7439-96-5	
Mercury	0.0095	mg/kg	0.0057	7471A	05/23/12 14:40	JRT	7439-97-6	
Nickel	8.29	mg/kg	0.20	6020	05/21/12 17:40	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/21/12 17:40	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/21/12 17:40	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/21/12 17:40	PER	7440-28-0	
Vanadium	4.94	mg/kg	0.20	6020	05/21/12 17:40	PER	7440-62-2	
Zinc	11.4	mg/kg	1.0	6020	05/21/12 17:40	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/18/12 19:21	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/18/12 19:21	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/18/12 19:21	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/18/12 19:21	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/18/12 19:21	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/18/12 19:21	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/18/12 19:21	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52526.03 (continued)

Sample Tag: VAP-A5.2-NK132_27-28

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/22/12 14:54	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/22/12 14:54	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/22/12 14:54	PL	84-66-2	
Dimethyl phthalate	100	ug/kg	40	8270C	05/22/12 14:54	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	80	ug/kg	80	8270C	05/22/12 14:54	PL	117-81-7	B
Fluoranthene	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/22/12 14:54	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52526.03 (continued)

Sample Tag: VAP-A5.2-NK132_27-28

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/22/12 14:54	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/22/12 14:54	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52526.04
Sample Tag: VAP-A5.2-NK132_30-32
Collected Date/Time: 05/16/2012 12:00
Matrix: Groundwater
COC Reference: 67403

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.1	IR
3	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/18/12 13:25	EMR		
Extraction, PCB	Completed			3510C	05/17/12 14:29	CCM		
Mercury Digestion	Completed			7471A	05/21/12 10:45	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 20:33	SLS	7440-36-0	
Arsenic, Dissolved	0.021	mg/L	0.002	6020	05/21/12 20:33	SLS	7440-38-2	
Barium, Dissolved	0.453	mg/L	0.010	6020	05/21/12 20:33	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 20:33	SLS	7440-41-7	
Boron, Dissolved	0.05	mg/L	0.04	6020	05/21/12 20:33	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 20:33	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 20:33	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 20:33	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 20:33	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 20:33	SLS	7439-92-1	
Manganese, Dissolved	0.123	mg/L	0.010	6020	05/21/12 20:33	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/21/12 15:37	JRT	7439-97-6	
Nickel, Dissolved	0.039	mg/L	0.010	6020	05/21/12 20:33	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 20:33	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 20:33	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 20:33	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 20:33	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 20:33	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/18/12 15:28	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/18/12 15:28	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/18/12 15:28	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/18/12 15:28	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/18/12 15:28	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/18/12 15:28	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/18/12 15:28	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/21/12 21:34	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/21/12 21:34	PL	118-74-1	



Analytical Laboratory Report

Lab Sample ID: S52526.04 (continued)

Sample Tag: VAP-A5.2-NK132_30-32

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/25/12 14:44	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/25/12 14:44	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	05/25/12 14:44	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/25/12 14:44	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	88-75-5	



Analytical Laboratory Report

Lab Sample ID: S52526.04 (continued)

Sample Tag: VAP-A5.2-NK132_30-32

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/25/12 14:44	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	2,000	ug/L	1,000	8260B - SIM	05/30/12 15:30	JGH	123-91-1	Y
1,4-Dioxane (Replicate 01)	2,600	ug/L	100	8260B	05/29/12 21:36	JGH	123-91-1	E
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	76-13-1	
Acetone	10	ug/L	10	8260B	05/24/12 04:50	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	05/24/12 04:50	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	05/24/12 04:50	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	05/24/12 04:50	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	05/24/12 04:50	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	78-87-5	

Y-Elevated reporting limit due to high target concentration

E-Concentration exceeds calibration range



Analytical Laboratory Report

Lab Sample ID: S52526.04 (continued)

Sample Tag: VAP-A5.2-NK132_30-32

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Bromodichloromethane	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	05/24/12 04:50	WAT		
o-Xylene	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	05/24/12 04:50	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S52526.05
Sample Tag: VAP-A5.2-NK132_37-38
Collected Date/Time: 05/16/2012 13:15
Matrix: Soil
COC Reference: 67403

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/17/12 22:26	EMR		
Extraction, PCB	Completed			3550B	05/18/12 09:00	CCM		
Mercury Digestion	Completed			7471A	05/23/12 09:30	JRH		
Metal Digestion	Completed			3050B	05/21/12 14:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/17/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/21/12 17:42	PER	7440-36-0	
Arsenic	3.49	mg/kg	0.10	6020	05/21/12 17:42	PER	7440-38-2	
Barium	31.3	mg/kg	1.0	6020	05/21/12 17:42	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/21/12 17:42	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/21/12 17:42	PER	7440-42-8	
Cadmium	0.13	mg/kg	0.10	6020	05/21/12 17:42	PER	7440-43-9	
Chromium	3.34	mg/kg	0.20	6020	05/21/12 17:42	PER	7440-47-3	
Cobalt	3.53	mg/kg	0.20	6020	05/21/12 17:42	PER	7440-48-4	
Copper	10.2	mg/kg	0.20	6020	05/21/12 17:42	PER	7440-50-8	
Lead	4.81	mg/kg	0.20	6020	05/21/12 17:42	PER	7439-92-1	
Manganese	255	mg/kg	0.20	6020	05/21/12 17:42	PER	7439-96-5	
Mercury	0.0097	mg/kg	0.0055	7471A	05/23/12 14:52	JRT	7439-97-6	
Nickel	11.0	mg/kg	0.20	6020	05/21/12 17:42	PER	7440-02-0	
Selenium	0.28	mg/kg	0.20	6020	05/21/12 17:42	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/21/12 17:42	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/21/12 17:42	PER	7440-28-0	
Vanadium	5.23	mg/kg	0.20	6020	05/21/12 17:42	PER	7440-62-2	
Zinc	20.4	mg/kg	1.0	6020	05/21/12 17:42	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/18/12 19:31	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/18/12 19:31	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/18/12 19:31	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/18/12 19:31	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/18/12 19:31	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/18/12 19:31	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/18/12 19:31	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52526.05 (continued)

Sample Tag: VAP-A5.2-NK132_37-38

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/22/12 15:23	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/22/12 15:23	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/22/12 15:23	PL	84-66-2	
Dimethyl phthalate	70	ug/kg	40	8270C	05/22/12 15:23	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/22/12 15:23	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/22/12 15:23	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52526.05 (continued)

Sample Tag: VAP-A5.2-NK132_37-38

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/22/12 15:23	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/22/12 15:23	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52526.06
Sample Tag: VAP-A5.2-NK132_42-43
Collected Date/Time: 05/16/2012 13:35
Matrix: Soil
COC Reference: 67403

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/17/12 22:26	EMR		
Extraction, PCB	Completed			3550B	05/18/12 09:00	CCM		
Mercury Digestion	Completed			7471A	05/23/12 09:30	JRH		
Metal Digestion	Completed			3050B	05/21/12 14:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/17/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/21/12 17:45	PER	7440-36-0	
Arsenic	4.11	mg/kg	0.10	6020	05/21/12 17:45	PER	7440-38-2	
Barium	42.9	mg/kg	1.0	6020	05/21/12 17:45	PER	7440-39-3	
Beryllium	0.21	mg/kg	0.20	6020	05/21/12 17:45	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/21/12 17:45	PER	7440-42-8	
Cadmium	0.16	mg/kg	0.10	6020	05/21/12 17:45	PER	7440-43-9	
Chromium	4.74	mg/kg	0.20	6020	05/21/12 17:45	PER	7440-47-3	
Cobalt	5.47	mg/kg	0.20	6020	05/21/12 17:45	PER	7440-48-4	
Copper	12.5	mg/kg	0.20	6020	05/21/12 17:45	PER	7440-50-8	
Lead	6.45	mg/kg	0.20	6020	05/21/12 17:45	PER	7439-92-1	
Manganese	378	mg/kg	0.20	6020	05/21/12 17:45	PER	7439-96-5	
Mercury	0.0118	mg/kg	0.0054	7471A	05/23/12 14:54	JRT	7439-97-6	
Nickel	16.2	mg/kg	0.20	6020	05/21/12 17:45	PER	7440-02-0	
Selenium	0.25	mg/kg	0.20	6020	05/21/12 17:45	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/21/12 17:45	PER	7440-22-4	
Thallium	0.20	mg/kg	0.20	6020	05/21/12 17:45	PER	7440-28-0	
Vanadium	7.21	mg/kg	0.20	6020	05/21/12 17:45	PER	7440-62-2	
Zinc	23.4	mg/kg	1.0	6020	05/21/12 17:45	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/18/12 19:42	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/18/12 19:42	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/18/12 19:42	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/18/12 19:42	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/18/12 19:42	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/18/12 19:42	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/18/12 19:42	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52526.06 (continued)

Sample Tag: VAP-A5.2-NK132_42-43

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/22/12 15:52	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/22/12 15:52	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/22/12 15:52	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	100	ug/kg	70	8270C	05/22/12 15:52	PL	117-81-7	B
Fluoranthene	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/22/12 15:52	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52526.06 (continued)

Sample Tag: VAP-A5.2-NK132_42-43

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/22/12 15:52	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/22/12 15:52	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52526.07
Sample Tag: VAP-A5.2-NK132_47-48
Collected Date/Time: 05/16/2012 13:55
Matrix: Soil
COC Reference: 67403

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/17/12 22:26	EMR		
Extraction, PCB	Completed			3550B	05/18/12 09:00	CCM		
Mercury Digestion	Completed			7471A	05/23/12 09:30	JRH		
Metal Digestion	Completed			3050B	05/21/12 14:00	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	05/17/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/21/12 17:47	PER	7440-36-0	
Arsenic	3.06	mg/kg	0.10	6020	05/21/12 17:47	PER	7440-38-2	
Barium	8.51	mg/kg	1.0	6020	05/21/12 17:47	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/21/12 17:47	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/21/12 17:47	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	05/21/12 17:47	PER	7440-43-9	
Chromium	3.14	mg/kg	0.20	6020	05/21/12 17:47	PER	7440-47-3	
Cobalt	1.22	mg/kg	0.20	6020	05/21/12 17:47	PER	7440-48-4	
Copper	3.99	mg/kg	0.20	6020	05/21/12 17:47	PER	7440-50-8	
Lead	2.85	mg/kg	0.20	6020	05/21/12 17:47	PER	7439-92-1	
Manganese	126	mg/kg	0.20	6020	05/21/12 17:47	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0060	7471A	05/23/12 14:56	JRT	7439-97-6	
Nickel	4.14	mg/kg	0.20	6020	05/21/12 17:47	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/21/12 17:47	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/21/12 17:47	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/21/12 17:47	PER	7440-28-0	
Vanadium	1.71	mg/kg	0.20	6020	05/21/12 17:47	PER	7440-62-2	
Zinc	18.1	mg/kg	1.0	6020	05/21/12 17:47	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/18/12 19:53	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/18/12 19:53	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/18/12 19:53	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/18/12 19:53	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/18/12 19:53	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/18/12 19:53	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/18/12 19:53	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52526.07 (continued)

Sample Tag: VAP-A5.2-NK132_47-48

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/22/12 16:21	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/22/12 16:21	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/22/12 16:21	PL	84-66-2	
Dimethyl phthalate	40	ug/kg	40	8270C	05/22/12 16:21	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	210	ug/kg	80	8270C	05/22/12 16:21	PL	117-81-7	B
Fluoranthene	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/22/12 16:21	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52526.07 (continued)

Sample Tag: VAP-A5.2-NK132_47-48

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/22/12 16:21	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/22/12 16:21	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52526.08
Sample Tag: VAP-A5.2-NK132_52-53
Collected Date/Time: 05/16/2012 14:15
Matrix: Soil
COC Reference: 67403

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/17/12 22:26	EMR		
Extraction, PCB	Completed			3550B	05/18/12 09:00	CCM		
Mercury Digestion	Completed			7471A	05/23/12 09:30	JRH		
Metal Digestion	Completed			3050B	05/21/12 14:00	PER		

Inorganics

Total Solids	98	%	1	Std M 2540 B	05/17/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/21/12 17:49	PER	7440-36-0	
Arsenic	1.65	mg/kg	0.10	6020	05/21/12 17:49	PER	7440-38-2	
Barium	4.61	mg/kg	1.0	6020	05/21/12 17:49	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/21/12 17:49	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/21/12 17:49	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/21/12 17:49	PER	7440-43-9	
Chromium	1.04	mg/kg	0.20	6020	05/21/12 17:49	PER	7440-47-3	
Cobalt	0.97	mg/kg	0.20	6020	05/21/12 17:49	PER	7440-48-4	
Copper	2.67	mg/kg	0.20	6020	05/21/12 17:49	PER	7440-50-8	
Lead	2.31	mg/kg	0.20	6020	05/21/12 17:49	PER	7439-92-1	
Manganese	102	mg/kg	0.20	6020	05/21/12 17:49	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0051	7471A	05/23/12 14:58	JRT	7439-97-6	
Nickel	3.37	mg/kg	0.20	6020	05/21/12 17:49	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/21/12 17:49	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/21/12 17:49	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/21/12 17:49	PER	7440-28-0	
Vanadium	1.18	mg/kg	0.20	6020	05/21/12 17:49	PER	7440-62-2	
Zinc	22.8	mg/kg	1.0	6020	05/21/12 17:49	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/18/12 20:03	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/18/12 20:03	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/18/12 20:03	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/18/12 20:03	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/18/12 20:03	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/18/12 20:03	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/18/12 20:03	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	208-96-8	
Acetophenone	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52526.08 (continued)

Sample Tag: VAP-A5.2-NK132_52-53

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	120-12-7	
Atrazine	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/22/12 16:50	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	105-60-2	
Carbazole	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	108-60-1	
Chrysene	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/22/12 16:50	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/22/12 16:50	PL	84-66-2	
Dimethyl phthalate	80	ug/kg	30	8270C	05/22/12 16:50	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	180	ug/kg	70	8270C	05/22/12 16:50	PL	117-81-7	B
Fluoranthene	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	206-44-0	
Fluorene	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	193-39-5	
Isophorone	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/22/12 16:50	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52526.08 (continued)

Sample Tag: VAP-A5.2-NK132_52-53

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	86-30-6	
Naphthalene	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/22/12 16:50	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	85-01-8	
Phenol	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	108-95-2	
Pyrene	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	30	8270C	05/22/12 16:50	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52526.09
Sample Tag: VAP-A5.2-NK132_57-58
Collected Date/Time: 05/16/2012 14:35
Matrix: Soil
COC Reference: 67403

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/17/12 22:26	EMR		
Extraction, PCB	Completed			3550B	05/18/12 09:00	CCM		
Mercury Digestion	Completed			7471A	05/23/12 09:30	JRH		
Metal Digestion	Completed			3050B	05/21/12 14:00	PER		

Inorganics

Total Solids	81	%	1	Std M 2540 B	05/17/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/21/12 17:51	PER	7440-36-0	
Arsenic	3.94	mg/kg	0.10	6020	05/21/12 17:51	PER	7440-38-2	
Barium	26.4	mg/kg	1.0	6020	05/21/12 17:51	PER	7440-39-3	
Beryllium	0.25	mg/kg	0.20	6020	05/21/12 17:51	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/21/12 17:51	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/21/12 17:51	PER	7440-43-9	
Chromium	3.24	mg/kg	0.20	6020	05/21/12 17:51	PER	7440-47-3	
Cobalt	4.81	mg/kg	0.20	6020	05/21/12 17:51	PER	7440-48-4	
Copper	11.6	mg/kg	0.20	6020	05/21/12 17:51	PER	7440-50-8	
Lead	6.54	mg/kg	0.20	6020	05/21/12 17:51	PER	7439-92-1	
Manganese	436	mg/kg	0.20	6020	05/21/12 17:51	PER	7439-96-5	
Mercury	0.0180	mg/kg	0.0062	7471A	05/23/12 15:01	JRT	7439-97-6	
Nickel	12.5	mg/kg	0.20	6020	05/21/12 17:51	PER	7440-02-0	
Selenium	0.35	mg/kg	0.20	6020	05/21/12 17:51	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/21/12 17:51	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/21/12 17:51	PER	7440-28-0	
Vanadium	6.07	mg/kg	0.20	6020	05/21/12 17:51	PER	7440-62-2	
Zinc	17.3	mg/kg	1.0	6020	05/21/12 17:51	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/18/12 20:14	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/18/12 20:14	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/18/12 20:14	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/18/12 20:14	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/18/12 20:14	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/18/12 20:14	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/18/12 20:14	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52526.09 (continued)

Sample Tag: VAP-A5.2-NK132_57-58

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/22/12 17:20	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/22/12 17:20	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/22/12 17:20	PL	84-66-2	
Dimethyl phthalate	70	ug/kg	40	8270C	05/22/12 17:20	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/22/12 17:20	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/22/12 17:20	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52526.09 (continued)

Sample Tag: VAP-A5.2-NK132_57-58

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/22/12 17:20	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/22/12 17:20	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52526.10
Sample Tag: Trip Blank
Collected Date/Time: 05/16/2012 00:01
Matrix: Groundwater
COC Reference: 67403

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	100	8260B - SIM	05/29/12 21:56	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	05/24/12 05:10	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	05/24/12 05:10	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	05/24/12 05:10	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	05/24/12 05:10	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	05/24/12 05:10	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	05/24/12 05:10	WAT		



Analytical Laboratory Report

Lab Sample ID: S52526.10 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	05/24/12 05:10	WAT	96-12-8	



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C.O.C. PAGE # 1 OF 1

67403

INVOICE TO

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE

TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE Rev. 1.15.1

Rev. 1.15.12



Analytical Laboratory Report

Report ID: S52549.01(01)
Generated on 05/30/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52549.01-S52549.15
Project: Lansing Plant #2 Project# B0064479.2012
Collected Date: 05/17/2012
Submitted Date/Time: 05/18/2012 09:05
Sampled by: Meryl Hicks/MM
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
""Not detected"" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)
Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (15 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52549.01	SB-A8-LF161_0.5-1.5'	Soil	05/17/2012 09:00
S52549.02	SB-A8-LF161_5.5-6.5'	Soil	05/17/2012 09:38
S52549.03	SB-A8-LF161_4-8'	Groundwater	05/17/2012 10:20
S52549.04	SB-A8-LF155_1-2'	Soil	05/17/2012 11:16
S52549.05	SB-A8-LH158_0.6-1'	Soil	05/17/2012 12:12
S52549.06	SB-A8-LH158_2-3'	Soil	05/17/2012 12:22
S52549.07	SB-A8-LH158_6.5-7.8'	Soil	05/17/2012 13:00
S52549.08	SB-A8-LC158_1-2'	Soil	05/17/2012 13:58
S52549.09	SB-A8-LC158_6-7'	Soil	05/17/2012 14:55
S52549.10	SB-A8-LC158_6-10'	Groundwater	05/17/2012 15:05
S52549.11	SB-A8-LK166_4-8'	Groundwater	05/17/2012 16:55
S52549.12	SB-A8-DUP37	Soil	05/17/2012 00:01
S52549.13	SB-A8-LK166_1-2'	Soil	05/17/2012 16:07
S52549.14	SB-A8-LK166_7-8'	Soil	05/17/2012 16:15
S52549.15	SB-A8-LF161_9-10'	Soil	05/17/2012 10:51



Analytical Laboratory Report

Lab Sample ID: S52549.01
Sample Tag: SB-A8-LF161_0.5-1.5'
Collected Date/Time: 05/17/2012 09:00
Matrix: Soil
COC Reference: 67639

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/21/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/21/12 10:33	CCM		
Mercury Digestion	Completed			7471A	05/24/12 09:45	JRH		
Metal Digestion	Completed			3050B	05/24/12 13:00	PER		

Inorganics

Total Solids	85	%	1	Std M 2540 B	05/18/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/24/12 17:15	PER	7440-36-0	
Arsenic	1.02	mg/kg	0.10	6020	05/24/12 17:15	PER	7440-38-2	
Barium	6.63	mg/kg	1.0	6020	05/24/12 17:15	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/24/12 17:15	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/24/12 17:15	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/24/12 17:15	PER	7440-43-9	
Chromium	1.44	mg/kg	0.20	6020	05/24/12 17:15	PER	7440-47-3	
Cobalt	2.93	mg/kg	0.50	6020	05/24/12 17:15	PER	7440-48-4	
Copper	2.07	mg/kg	0.20	6020	05/24/12 17:15	PER	7440-50-8	
Lead	2.38	mg/kg	0.20	6020	05/24/12 17:15	PER	7439-92-1	
Manganese	153	mg/kg	0.20	6020	05/24/12 17:15	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0059	7471A	05/24/12 14:32	JRT	7439-97-6	
Nickel	4.35	mg/kg	0.20	6020	05/24/12 17:15	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/24/12 17:15	PER	7782-49-2	
Silver	0.15	mg/kg	0.10	6020	05/24/12 17:15	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/24/12 17:15	PER	7440-28-0	
Vanadium	1.75	mg/kg	0.20	6020	05/24/12 17:15	PER	7440-62-2	
Zinc	6.53	mg/kg	1.0	6020	05/24/12 17:15	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/21/12 15:03	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/21/12 15:03	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/21/12 15:03	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/21/12 15:03	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/21/12 15:03	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/21/12 15:03	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/21/12 15:03	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52549.01 (continued)

Sample Tag: SB-A8-LF161_0.5-1.5'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/26/12 23:35	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	100-52-7	
Benzo(a)anthracene	40	ug/kg	40	8270C	05/26/12 23:35	PL	56-55-3	
Benzo(a)pyrene	50	ug/kg	40	8270C	05/26/12 23:35	PL	50-32-8	
Benzo(b)fluoranthene	90	ug/kg	40	8270C	05/26/12 23:35	PL	205-99-2	p
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	191-24-2	
Benzo(k)fluoranthene	100	ug/kg	40	8270C	05/26/12 23:35	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	108-60-1	
Chrysene	60	ug/kg	40	8270C	05/26/12 23:35	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/26/12 23:35	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/26/12 23:35	PL	84-66-2	
Dimethyl phthalate	190	ug/kg	40	8270C	05/26/12 23:35	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/26/12 23:35	PL	117-81-7	
Fluoranthene	110	ug/kg	40	8270C	05/26/12 23:35	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/26/12 23:35	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	88-74-4	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52549.01 (continued)

Sample Tag: SB-A8-LF161_0.5-1.5'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/26/12 23:35	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	108-95-2	
Pyrene	90	ug/kg	40	8270C	05/26/12 23:35	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/26/12 23:35	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52549.02
Sample Tag: SB-A8-LF161_5.5-6.5'
Collected Date/Time: 05/17/2012 09:38
Matrix: Soil
COC Reference: 67639

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/21/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/21/12 10:33	CCM		
Mercury Digestion	Completed			7471A	05/24/12 09:45	JRH		
Metal Digestion	Completed			3050B	05/24/12 13:00	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	05/18/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/24/12 17:17	PER	7440-36-0	
Arsenic	0.33	mg/kg	0.10	6020	05/24/12 17:17	PER	7440-38-2	
Barium	5.40	mg/kg	1.0	6020	05/24/12 17:17	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/24/12 17:17	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/24/12 17:17	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/24/12 17:17	PER	7440-43-9	
Chromium	0.71	mg/kg	0.20	6020	05/24/12 17:17	PER	7440-47-3	
Cobalt	1.16	mg/kg	0.50	6020	05/24/12 17:17	PER	7440-48-4	
Copper	1.24	mg/kg	0.20	6020	05/24/12 17:17	PER	7440-50-8	
Lead	1.08	mg/kg	0.20	6020	05/24/12 17:17	PER	7439-92-1	
Manganese	109	mg/kg	0.20	6020	05/24/12 17:17	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0060	7471A	05/24/12 14:35	JRT	7439-97-6	
Nickel	2.39	mg/kg	0.20	6020	05/24/12 17:17	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/24/12 17:17	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/24/12 17:17	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/24/12 17:17	PER	7440-28-0	
Vanadium	0.85	mg/kg	0.20	6020	05/24/12 17:17	PER	7440-62-2	
Zinc	1.60	mg/kg	1.0	6020	05/24/12 17:17	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/21/12 15:13	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/21/12 15:13	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/21/12 15:13	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/21/12 15:13	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/21/12 15:13	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/21/12 15:13	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/21/12 15:13	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52549.02 (continued)

Sample Tag: SB-A8-LF161_5.5-6.5'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/27/12 00:04	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/27/12 00:04	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/27/12 00:04	PL	84-66-2	
Dimethyl phthalate	190	ug/kg	40	8270C	05/27/12 00:04	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/27/12 00:04	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/27/12 00:04	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52549.02 (continued)

Sample Tag: SB-A8-LF161_5.5-6.5'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/27/12 00:04	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 00:04	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52549.03
Sample Tag: SB-A8-LF161_4-8'
Collected Date/Time: 05/17/2012 10:20
Matrix: Groundwater
COC Reference: 67639

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.7	IR
2	40ml Glass	HCL	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/23/12 21:08	EMR		
Extraction, PCB	Completed			3510C	05/22/12 14:44	CCM		
Mercury Digestion	Completed			7471A	05/21/12 13:30	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:07	SLS	7440-36-0	
Arsenic, Dissolved	0.004	mg/L	0.002	6020	05/21/12 21:07	SLS	7440-38-2	
Barium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 21:07	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 21:07	SLS	7440-41-7	
Boron, Dissolved	0.09	mg/L	0.04	6020	05/21/12 21:07	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 21:07	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 21:07	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 21:07	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:07	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:07	SLS	7439-92-1	
Manganese, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 21:07	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/21/12 16:32	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 21:07	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:07	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 21:07	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:07	SLS	7440-28-0	
Vanadium, Dissolved	0.006	mg/L	0.002	6020	05/21/12 21:07	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 21:07	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/22/12 17:09	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/22/12 17:09	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/22/12 17:09	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/22/12 17:09	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/22/12 17:09	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/22/12 17:09	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/22/12 17:09	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/26/12 21:09	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/26/12 21:09	PL	118-74-1	



Analytical Laboratory Report

Lab Sample ID: S52549.03 (continued)

Sample Tag: SB-A8-LF161_4-8'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/27/12 04:56	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/27/12 04:56	PL	84-66-2	
Dimethyl phthalate	4	ug/L	2	8270C	05/27/12 04:56	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/27/12 04:56	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	88-75-5	



Analytical Laboratory Report

Lab Sample ID: S52549.03 (continued)

Sample Tag: SB-A8-LF161_4-8'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/27/12 04:56	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	05/29/12 12:04	WAT	123-91-1	



Analytical Laboratory Report

Lab Sample ID: S52549.04
Sample Tag: SB-A8-LF155_1-2'
Collected Date/Time: 05/17/2012 11:16
Matrix: Soil
COC Reference: 67639

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/21/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/21/12 10:33	CCM		
Mercury Digestion	Completed			7471A	05/24/12 09:45	JRH		
Metal Digestion	Completed			3050B	05/24/12 13:00	PER		

Inorganics

Total Solids	96	%	1	Std M 2540 B	05/18/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/24/12 17:19	PER	7440-36-0	
Arsenic	1.26	mg/kg	0.10	6020	05/24/12 17:19	PER	7440-38-2	
Barium	6.41	mg/kg	1.0	6020	05/24/12 17:19	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/24/12 17:19	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/24/12 17:19	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/24/12 17:19	PER	7440-43-9	
Chromium	2.68	mg/kg	0.20	6020	05/24/12 17:19	PER	7440-47-3	
Cobalt	1.91	mg/kg	0.50	6020	05/24/12 17:19	PER	7440-48-4	
Copper	3.03	mg/kg	0.20	6020	05/24/12 17:19	PER	7440-50-8	
Lead	1.81	mg/kg	0.20	6020	05/24/12 17:19	PER	7439-92-1	
Manganese	126	mg/kg	0.20	6020	05/24/12 17:19	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0052	7471A	05/24/12 14:37	JRT	7439-97-6	
Nickel	3.78	mg/kg	0.20	6020	05/24/12 17:19	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/24/12 17:19	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/24/12 17:19	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/24/12 17:19	PER	7440-28-0	
Vanadium	2.10	mg/kg	0.20	6020	05/24/12 17:19	PER	7440-62-2	
Zinc	5.75	mg/kg	1.0	6020	05/24/12 17:19	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/21/12 15:24	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/21/12 15:24	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/21/12 15:24	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/21/12 15:24	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/21/12 15:24	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/21/12 15:24	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/21/12 15:24	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	208-96-8	
Acetophenone	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52549.04 (continued)

Sample Tag: SB-A8-LF155_1-2'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	120-12-7	
Atrazine	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 00:33	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	105-60-2	
Carbazole	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	108-60-1	
Chrysene	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/27/12 00:33	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 00:33	PL	84-66-2	
Dimethyl phthalate	160	ug/kg	30	8270C	05/27/12 00:33	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/27/12 00:33	PL	117-81-7	
Fluoranthene	50	ug/kg	30	8270C	05/27/12 00:33	PL	206-44-0	
Fluorene	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	193-39-5	
Isophorone	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/27/12 00:33	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52549.04 (continued)

Sample Tag: SB-A8-LF155_1-2'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	86-30-6	
Naphthalene	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 00:33	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	85-01-8	
Phenol	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	108-95-2	
Pyrene	40	ug/kg	30	8270C	05/27/12 00:33	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	30	8270C	05/27/12 00:33	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52549.05
Sample Tag: SB-A8-LH158_0.6-1'
Collected Date/Time: 05/17/2012 12:12
Matrix: Soil
COC Reference: 67639

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/21/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/21/12 10:33	CCM		
Mercury Digestion	Completed			7471A	05/24/12 09:45	JRH		
Metal Digestion	Completed			3050B	05/24/12 13:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	05/18/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/24/12 17:22	PER	7440-36-0	
Arsenic	1.06	mg/kg	0.10	6020	05/24/12 17:22	PER	7440-38-2	
Barium	11.3	mg/kg	1.0	6020	05/24/12 17:22	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/24/12 17:22	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/24/12 17:22	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/24/12 17:22	PER	7440-43-9	
Chromium	1.76	mg/kg	0.20	6020	05/24/12 17:22	PER	7440-47-3	
Cobalt	3.40	mg/kg	0.50	6020	05/24/12 17:22	PER	7440-48-4	
Copper	3.22	mg/kg	0.20	6020	05/24/12 17:22	PER	7440-50-8	
Lead	5.82	mg/kg	0.20	6020	05/24/12 17:22	PER	7439-92-1	
Manganese	146	mg/kg	0.20	6020	05/24/12 17:22	PER	7439-96-5	
Mercury	0.0098	mg/kg	0.0054	7471A	05/24/12 14:39	JRT	7439-97-6	
Nickel	4.32	mg/kg	0.20	6020	05/24/12 17:22	PER	7440-02-0	
Selenium	0.22	mg/kg	0.20	6020	05/24/12 17:22	PER	7782-49-2	
Silver	0.12	mg/kg	0.10	6020	05/24/12 17:22	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/24/12 17:22	PER	7440-28-0	
Vanadium	2.30	mg/kg	0.20	6020	05/24/12 17:22	PER	7440-62-2	
Zinc	8.11	mg/kg	1.0	6020	05/24/12 17:22	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/21/12 15:35	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/21/12 15:35	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/21/12 15:35	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/21/12 15:35	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/21/12 15:35	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/21/12 15:35	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/21/12 15:35	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52549.05 (continued)

Sample Tag: SB-A8-LH158_0.6-1'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 06:24	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	100-52-7	
Benzo(a)anthracene	90	ug/kg	40	8270C	05/27/12 06:24	PL	56-55-3	
Benzo(a)pyrene	70	ug/kg	40	8270C	05/27/12 06:24	PL	50-32-8	
Benzo(b)fluoranthene	150	ug/kg	40	8270C	05/27/12 06:24	PL	205-99-2	p
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	191-24-2	
Benzo(k)fluoranthene	160	ug/kg	40	8270C	05/27/12 06:24	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	108-60-1	
Chrysene	90	ug/kg	40	8270C	05/27/12 06:24	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/27/12 06:24	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 06:24	PL	84-66-2	
Dimethyl phthalate	220	ug/kg	40	8270C	05/27/12 06:24	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/27/12 06:24	PL	117-81-7	
Fluoranthene	190	ug/kg	40	8270C	05/27/12 06:24	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/27/12 06:24	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	88-74-4	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52549.05 (continued)

Sample Tag: SB-A8-LH158_0.6-1'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 06:24	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	87-86-5	
Phenanthrene	100	ug/kg	40	8270C	05/27/12 06:24	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	108-95-2	
Pyrene	170	ug/kg	40	8270C	05/27/12 06:24	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 06:24	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52549.06
Sample Tag: SB-A8-LH158_2-3'
Collected Date/Time: 05/17/2012 12:22
Matrix: Soil
COC Reference: 67639

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/21/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/21/12 10:33	CCM		
Mercury Digestion	Completed			7471A	05/24/12 09:45	JRH		
Metal Digestion	Completed			3050B	05/24/12 13:00	PER		

Inorganics

Total Solids	93	%	1	Std M 2540 B	05/18/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/24/12 17:24	PER	7440-36-0	
Arsenic	1.28	mg/kg	0.10	6020	05/24/12 17:24	PER	7440-38-2	
Barium	18.5	mg/kg	1.0	6020	05/24/12 17:24	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/24/12 17:24	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/24/12 17:24	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/24/12 17:24	PER	7440-43-9	
Chromium	6.42	mg/kg	0.20	6020	05/24/12 17:24	PER	7440-47-3	
Cobalt	2.19	mg/kg	0.50	6020	05/24/12 17:24	PER	7440-48-4	
Copper	3.93	mg/kg	0.20	6020	05/24/12 17:24	PER	7440-50-8	
Lead	9.25	mg/kg	0.20	6020	05/24/12 17:24	PER	7439-92-1	
Manganese	165	mg/kg	0.20	6020	05/24/12 17:24	PER	7439-96-5	
Mercury	0.0150	mg/kg	0.0054	7471A	05/24/12 14:41	JRT	7439-97-6	
Nickel	4.56	mg/kg	0.20	6020	05/24/12 17:24	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/24/12 17:24	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/24/12 17:24	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/24/12 17:24	PER	7440-28-0	
Vanadium	3.43	mg/kg	0.20	6020	05/24/12 17:24	PER	7440-62-2	
Zinc	6.45	mg/kg	1.0	6020	05/24/12 17:24	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/22/12 14:14	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/22/12 14:14	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/22/12 14:14	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/22/12 14:14	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/22/12 14:14	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/22/12 14:14	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/22/12 14:14	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	208-96-8	
Acetophenone	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52549.06 (continued)

Sample Tag: SB-A8-LH158_2-3'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	120-12-7	
Atrazine	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	100	8270C	05/27/12 06:54	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	100-52-7	
Benzo(a)anthracene	150	ug/kg	70	8270C	05/27/12 06:54	PL	56-55-3	
Benzo(a)pyrene	130	ug/kg	70	8270C	05/27/12 06:54	PL	50-32-8	I
Benzo(b)fluoranthene	260	ug/kg	70	8270C	05/27/12 06:54	PL	205-99-2	pl
Benzo(ghi)perylene	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	191-24-2	I
Benzo(k)fluoranthene	270	ug/kg	70	8270C	05/27/12 06:54	PL	207-08-9	pl
Butyl benzyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	105-60-2	
Carbazole	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	108-60-1	
Chrysene	150	ug/kg	70	8270C	05/27/12 06:54	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	100	8270C	05/27/12 06:54	PL	53-70-3	I
Dibenzofuran	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	100	8270C	05/27/12 06:54	PL	84-66-2	
Dimethyl phthalate	90	ug/kg	70	8270C	05/27/12 06:54	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	100	8270C	05/27/12 06:54	PL	117-81-7	
Fluoranthene	290	ug/kg	70	8270C	05/27/12 06:54	PL	206-44-0	
Fluorene	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	193-39-5	I
Isophorone	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	100	8270C	05/27/12 06:54	PL	3/4-Cresol	

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52549.06 (continued)

Sample Tag: SB-A8-LH158_2-3'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	86-30-6	
Naphthalene	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	100	8270C	05/27/12 06:54	PL	117-84-0	I
Pentachlorophenol	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	87-86-5	
Phenanthrene	140	ug/kg	70	8270C	05/27/12 06:54	PL	85-01-8	
Phenol	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	108-95-2	
Pyrene	280	ug/kg	70	8270C	05/27/12 06:54	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	70	8270C	05/27/12 06:54	PL	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	208-96-8	
Acetophenone	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	98-86-2	
Anthracene	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	120-12-7	
Atrazine	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	100	8270C	05/28/12 01:06	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	100-52-7	
Benzo(a)anthracene	130	ug/kg	70	8270C	05/28/12 01:06	PL	56-55-3	
Benzo(a)pyrene	120	ug/kg	70	8270C	05/28/12 01:06	PL	50-32-8	I
Benzo(b)fluoranthene	250	ug/kg	70	8270C	05/28/12 01:06	PL	205-99-2	pl
Benzo(ghi)perylene	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	191-24-2	I
Benzo(k)fluoranthene	260	ug/kg	70	8270C	05/28/12 01:06	PL	207-08-9	pl
Butyl benzyl phthalate	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	105-60-2	
Carbazole	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	108-60-1	
Chrysene	140	ug/kg	70	8270C	05/28/12 01:06	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	51-28-5	

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S52549.06 (continued)

Sample Tag: SB-A8-LH158_2-3'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
2,4-Dinitrotoluene	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	100	8270C	05/28/12 01:06	PL	53-70-3	I
Dibenzofuran	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	100	8270C	05/28/12 01:06	PL	84-66-2	
Dimethyl phthalate	90	ug/kg	70	8270C	05/28/12 01:06	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	100	8270C	05/28/12 01:06	PL	117-81-7	
Fluoranthene	260	ug/kg	70	8270C	05/28/12 01:06	PL	206-44-0	
Fluorene	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	193-39-5	I
Isophorone	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	100	8270C	05/28/12 01:06	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	86-30-6	
Naphthalene	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	100	8270C	05/28/12 01:06	PL	117-84-0	I
Pentachlorophenol	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	87-86-5	
Phenanthrene	150	ug/kg	70	8270C	05/28/12 01:06	PL	85-01-8	
Phenol	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	108-95-2	
Pyrene	270	ug/kg	70	8270C	05/28/12 01:06	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	70	8270C	05/28/12 01:06	PL	88-06-2	

I-Matrix interference with internal standard

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52549.07
Sample Tag: SB-A8-LH158_6.5-7.8'
Collected Date/Time: 05/17/2012 13:00
Matrix: Soil
COC Reference: 67639

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/21/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/21/12 10:33	CCM		
Mercury Digestion	Completed			7471A	05/24/12 09:45	JRH		
Metal Digestion	Completed			3050B	05/24/12 13:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/18/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/24/12 17:26	PER	7440-36-0	
Arsenic	0.38	mg/kg	0.10	6020	05/24/12 17:26	PER	7440-38-2	
Barium	24.6	mg/kg	1.0	6020	05/24/12 17:26	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/24/12 17:26	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/24/12 17:26	PER	7440-42-8	
Cadmium	0.19	mg/kg	0.10	6020	05/24/12 17:26	PER	7440-43-9	
Chromium	2.51	mg/kg	0.20	6020	05/24/12 17:26	PER	7440-47-3	
Cobalt	1.20	mg/kg	0.50	6020	05/24/12 17:26	PER	7440-48-4	
Copper	6.10	mg/kg	0.20	6020	05/24/12 17:26	PER	7440-50-8	
Lead	4.68	mg/kg	0.20	6020	05/24/12 17:26	PER	7439-92-1	
Manganese	37.6	mg/kg	0.20	6020	05/24/12 17:26	PER	7439-96-5	
Mercury	0.0294	mg/kg	0.0054	7471A	05/24/12 14:44	JRT	7439-97-6	
Nickel	2.51	mg/kg	0.20	6020	05/24/12 17:26	PER	7440-02-0	
Selenium	0.21	mg/kg	0.20	6020	05/24/12 17:26	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/24/12 17:26	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/24/12 17:26	PER	7440-28-0	
Vanadium	8.16	mg/kg	0.20	6020	05/24/12 17:26	PER	7440-62-2	
Zinc	8.01	mg/kg	1.0	6020	05/24/12 17:26	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/21/12 15:45	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/21/12 15:45	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/21/12 15:45	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/21/12 15:45	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/21/12 15:45	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/21/12 15:45	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/21/12 15:45	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52549.07 (continued)

Sample Tag: SB-A8-LH158_6.5-7.8'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 01:03	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/27/12 01:03	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 01:03	PL	84-66-2	
Dimethyl phthalate	90	ug/kg	40	8270C	05/27/12 01:03	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/27/12 01:03	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/27/12 01:03	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52549.07 (continued)

Sample Tag: SB-A8-LH158_6.5-7.8'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 01:03	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 01:03	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52549.08
Sample Tag: SB-A8-LC158_1-2'
Collected Date/Time: 05/17/2012 13:58
Matrix: Soil
COC Reference: 67639

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/21/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/21/12 10:33	CCM		
Mercury Digestion	Completed			7471A	05/24/12 09:45	JRH		
Metal Digestion	Completed			3050B	05/24/12 13:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	05/18/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/24/12 17:28	PER	7440-36-0	
Arsenic	0.41	mg/kg	0.10	6020	05/24/12 17:28	PER	7440-38-2	
Barium	6.13	mg/kg	1.0	6020	05/24/12 17:28	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/24/12 17:28	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/24/12 17:28	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/24/12 17:28	PER	7440-43-9	
Chromium	0.75	mg/kg	0.20	6020	05/24/12 17:28	PER	7440-47-3	
Cobalt	1.11	mg/kg	0.50	6020	05/24/12 17:28	PER	7440-48-4	
Copper	1.18	mg/kg	0.20	6020	05/24/12 17:28	PER	7440-50-8	
Lead	2.00	mg/kg	0.20	6020	05/24/12 17:28	PER	7439-92-1	
Manganese	144	mg/kg	0.20	6020	05/24/12 17:28	PER	7439-96-5	
Mercury	0.0113	mg/kg	0.0055	7471A	05/24/12 14:46	JRT	7439-97-6	
Nickel	2.46	mg/kg	0.20	6020	05/24/12 17:28	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/24/12 17:28	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/24/12 17:28	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/24/12 17:28	PER	7440-28-0	
Vanadium	1.06	mg/kg	0.20	6020	05/24/12 17:28	PER	7440-62-2	
Zinc	1.96	mg/kg	1.0	6020	05/24/12 17:28	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/21/12 15:56	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/21/12 15:56	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/21/12 15:56	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/21/12 15:56	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/21/12 15:56	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/21/12 15:56	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/21/12 15:56	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52549.08 (continued)

Sample Tag: SB-A8-LC158_1-2'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 01:32	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/27/12 01:32	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 01:32	PL	84-66-2	
Dimethyl phthalate	150	ug/kg	40	8270C	05/27/12 01:32	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/27/12 01:32	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/27/12 01:32	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52549.08 (continued)

Sample Tag: SB-A8-LC158_1-2'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 01:32	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 01:32	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52549.09
Sample Tag: SB-A8-LC158_6-7'
Collected Date/Time: 05/17/2012 14:55
Matrix: Soil
COC Reference: 67639

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/21/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/21/12 10:33	CCM		
Mercury Digestion	Completed			7471A	05/24/12 12:30	JRH		
Metal Digestion	Completed			3050B	05/25/12 11:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/18/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/25/12 13:39	PER	7440-36-0	
Arsenic	0.84	mg/kg	0.10	6020	05/25/12 13:39	PER	7440-38-2	
Barium	22.1	mg/kg	1.0	6020	05/25/12 13:39	PER	7440-39-3	
Beryllium	0.25	mg/kg	0.21	6020	05/25/12 13:39	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/25/12 13:39	PER	7440-42-8	
Cadmium	0.18	mg/kg	0.10	6020	05/25/12 13:39	PER	7440-43-9	
Chromium	2.55	mg/kg	0.21	6020	05/25/12 13:39	PER	7440-47-3	
Cobalt	1.74	mg/kg	0.21	6020	05/25/12 13:39	PER	7440-48-4	
Copper	7.74	mg/kg	0.21	6020	05/25/12 13:39	PER	7440-50-8	
Lead	4.72	mg/kg	0.21	6020	05/25/12 13:39	PER	7439-92-1	
Manganese	78.6	mg/kg	0.21	6020	05/25/12 13:39	PER	7439-96-5	
Mercury	0.0265	mg/kg	0.0058	7471A	05/24/12 14:57	JRT	7439-97-6	
Nickel	4.05	mg/kg	0.21	6020	05/25/12 13:39	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/25/12 13:39	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/25/12 13:39	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/25/12 13:39	PER	7440-28-0	
Vanadium	8.99	mg/kg	0.21	6020	05/25/12 13:39	PER	7440-62-2	
Zinc	11.3	mg/kg	1.0	6020	05/25/12 13:39	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/21/12 17:10	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/21/12 17:10	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/21/12 17:10	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/21/12 17:10	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/21/12 17:10	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/21/12 17:10	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/21/12 17:10	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52549.09 (continued)

Sample Tag: SB-A8-LC158_6-7'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/27/12 02:01	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/27/12 02:01	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/27/12 02:01	PL	84-66-2	
Dimethyl phthalate	180	ug/kg	40	8270C	05/27/12 02:01	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/27/12 02:01	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/27/12 02:01	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52549.09 (continued)

Sample Tag: SB-A8-LC158_6-7'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/27/12 02:01	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 02:01	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52549.10
Sample Tag: SB-A8-LC158_6-10'
Collected Date/Time: 05/17/2012 15:05
Matrix: Groundwater
COC Reference: 67639

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.7	IR
2	40ml Glass	HCL	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/23/12 21:08	EMR		
Extraction, PCB	Completed			3510C	05/22/12 14:44	CCM		
Mercury Digestion	Completed			7471A	05/21/12 13:30	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:12	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:12	SLS	7440-38-2	
Barium, Dissolved	0.034	mg/L	0.010	6020	05/21/12 21:12	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 21:12	SLS	7440-41-7	
Boron, Dissolved	0.20	mg/L	0.04	6020	05/21/12 21:12	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 21:12	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 21:12	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 21:12	SLS	7440-48-4	
Copper, Dissolved	0.004	mg/L	0.002	6020	05/21/12 21:12	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:12	SLS	7439-92-1	
Manganese, Dissolved	0.114	mg/L	0.010	6020	05/21/12 21:12	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/21/12 16:35	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 21:12	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:12	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 21:12	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:12	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:12	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 21:12	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/22/12 17:19	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/22/12 17:19	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/22/12 17:19	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/22/12 17:19	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/22/12 17:19	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/22/12 17:19	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/22/12 17:19	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.06	8270C	05/26/12 21:38	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.06	8270C	05/26/12 21:38	PL	118-74-1	



Analytical Laboratory Report

Lab Sample ID: S52549.10 (continued)

Sample Tag: SB-A8-LC158_6-10'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/27/12 16:21	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/27/12 16:21	PL	84-66-2	
Dimethyl phthalate	11	ug/L	2	8270C	05/27/12 16:21	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/27/12 16:21	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	88-75-5	



Analytical Laboratory Report

Lab Sample ID: S52549.10 (continued)

Sample Tag: SB-A8-LC158_6-10'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/27/12 16:21	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	05/29/12 12:22	WAT	123-91-1	



Analytical Laboratory Report

Lab Sample ID: S52549.11
Sample Tag: SB-A8-LK166_4-8'
Collected Date/Time: 05/17/2012 16:55
Matrix: Groundwater
COC Reference: 67639

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.7	IR
2	40ml Glass	HCL	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/23/12 21:08	EMR		
Extraction, PCB	Completed			3510C	05/22/12 17:30	ADB		
Mercury Digestion	Completed			7471A	05/21/12 13:30	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:33	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:33	SLS	7440-38-2	
Barium, Dissolved	0.043	mg/L	0.010	6020	05/21/12 21:33	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 21:33	SLS	7440-41-7	
Boron, Dissolved	0.23	mg/L	0.04	6020	05/21/12 21:33	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 21:33	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 21:33	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 21:33	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:33	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:33	SLS	7439-92-1	
Manganese, Dissolved	0.127	mg/L	0.010	6020	05/21/12 21:33	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/21/12 16:37	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 21:33	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:33	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 21:33	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:33	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:33	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 21:33	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.1	8082A	05/23/12 15:31	JANB	12674-11-2	X
PCB-1242	Not detected	ug/L	0.1	8082A	05/23/12 15:31	JANB	53469-21-9	X
PCB-1221	Not detected	ug/L	0.1	8082A	05/23/12 15:31	JANB	11104-28-2	X
PCB-1232	Not detected	ug/L	0.1	8082A	05/23/12 15:31	JANB	11141-16-5	X
PCB-1248	Not detected	ug/L	0.1	8082A	05/23/12 15:31	JANB	12672-29-6	X
PCB-1254	Not detected	ug/L	0.1	8082A	05/23/12 15:31	JANB	11097-69-1	X
PCB-1260	Not detected	ug/L	0.1	8082A	05/23/12 15:31	JANB	11096-82-5	X

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.06	8270C	05/26/12 22:07	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.06	8270C	05/26/12 22:07	PL	118-74-1	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52549.11 (continued)

Sample Tag: SB-A8-LK166_4-8'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/27/12 16:50	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/27/12 16:50	PL	84-66-2	
Dimethyl phthalate	8	ug/L	2	8270C	05/27/12 16:50	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/27/12 16:50	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	206-44-0	
Fluorene	2	ug/L	1	8270C	05/27/12 16:50	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	88-75-5	



Analytical Laboratory Report

Lab Sample ID: S52549.11 (continued)

Sample Tag: SB-A8-LK166_4-8'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	85-01-8	
Phenol	2	ug/L	1	8270C	05/27/12 16:50	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/27/12 16:50	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	05/29/12 12:40	WAT	123-91-1	



Analytical Laboratory Report

Lab Sample ID: S52549.12
Sample Tag: SB-A8-DUP37
Collected Date/Time: 05/17/2012 00:01
Matrix: Soil
COC Reference: 67639

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/21/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/21/12 10:33	CCM		
Mercury Digestion	Completed			7471A	05/24/12 12:30	JRH		
Metal Digestion	Completed			3050B	05/25/12 11:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/18/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/25/12 13:45	PER	7440-36-0	
Arsenic	0.53	mg/kg	0.10	6020	05/25/12 13:45	PER	7440-38-2	
Barium	20.9	mg/kg	1.0	6020	05/25/12 13:45	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/25/12 13:45	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/25/12 13:45	PER	7440-42-8	
Cadmium	0.19	mg/kg	0.10	6020	05/25/12 13:45	PER	7440-43-9	
Chromium	1.71	mg/kg	0.20	6020	05/25/12 13:45	PER	7440-47-3	
Cobalt	0.88	mg/kg	0.20	6020	05/25/12 13:45	PER	7440-48-4	
Copper	4.90	mg/kg	0.20	6020	05/25/12 13:45	PER	7440-50-8	
Lead	4.64	mg/kg	0.20	6020	05/25/12 13:45	PER	7439-92-1	
Manganese	30.1	mg/kg	0.20	6020	05/25/12 13:45	PER	7439-96-5	
Mercury	0.0329	mg/kg	0.0055	7471A	05/24/12 15:00	JRT	7439-97-6	
Nickel	1.70	mg/kg	0.20	6020	05/25/12 13:45	PER	7440-02-0	
Selenium	0.30	mg/kg	0.20	6020	05/25/12 13:45	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/25/12 13:45	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/25/12 13:45	PER	7440-28-0	
Vanadium	6.83	mg/kg	0.20	6020	05/25/12 13:45	PER	7440-62-2	
Zinc	6.64	mg/kg	1.0	6020	05/25/12 13:45	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/21/12 17:20	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/21/12 17:20	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/21/12 17:20	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/21/12 17:20	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/21/12 17:20	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/21/12 17:20	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/21/12 17:20	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52549.12 (continued)

Sample Tag: SB-A8-DUP37

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 02:30	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/27/12 02:30	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 02:30	PL	84-66-2	
Dimethyl phthalate	90	ug/kg	40	8270C	05/27/12 02:30	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/27/12 02:30	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/27/12 02:30	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52549.12 (continued)

Sample Tag: SB-A8-DUP37

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 02:30	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 02:30	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52549.13
Sample Tag: SB-A8-LK166_1-2'
Collected Date/Time: 05/17/2012 16:07
Matrix: Soil
COC Reference: 67638

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/21/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/21/12 10:33	CCM		
Mercury Digestion	Completed			7471A	05/24/12 12:30	JRH		
Metal Digestion	Completed			3050B	05/25/12 11:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/18/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/25/12 13:47	PER	7440-36-0	
Arsenic	1.20	mg/kg	0.10	6020	05/25/12 13:47	PER	7440-38-2	
Barium	24.5	mg/kg	1.0	6020	05/25/12 13:47	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/25/12 13:47	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/25/12 13:47	PER	7440-42-8	
Cadmium	0.19	mg/kg	0.10	6020	05/25/12 13:47	PER	7440-43-9	
Chromium	5.36	mg/kg	0.20	6020	05/25/12 13:47	PER	7440-47-3	
Cobalt	18.0	mg/kg	0.20	6020	05/25/12 13:47	PER	7440-48-4	
Copper	7.56	mg/kg	0.20	6020	05/25/12 13:47	PER	7440-50-8	
Lead	4.39	mg/kg	0.20	6020	05/25/12 13:47	PER	7439-92-1	
Manganese	223	mg/kg	0.20	6020	05/25/12 13:47	PER	7439-96-5	
Mercury	0.0078	mg/kg	0.0055	7471A	05/24/12 15:02	JRT	7439-97-6	
Nickel	5.59	mg/kg	0.20	6020	05/25/12 13:47	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/25/12 13:47	PER	7782-49-2	
Silver	1.77	mg/kg	0.10	6020	05/25/12 13:47	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/25/12 13:47	PER	7440-28-0	
Vanadium	2.62	mg/kg	0.20	6020	05/25/12 13:47	PER	7440-62-2	
Zinc	10.0	mg/kg	1.0	6020	05/25/12 13:47	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/21/12 17:31	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/21/12 17:31	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/21/12 17:31	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/21/12 17:31	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/21/12 17:31	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/21/12 17:31	JANB	11097-69-1	
PCB-1260	3	ug/kg	3	8082A	05/21/12 17:31	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52549.13 (continued)

Sample Tag: SB-A8-LK166_1-2'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	50	ug/kg	40	8270C	05/27/12 02:59	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 02:59	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	100-52-7	
Benzo(a)anthracene	200	ug/kg	40	8270C	05/27/12 02:59	PL	56-55-3	
Benzo(a)pyrene	190	ug/kg	40	8270C	05/27/12 02:59	PL	50-32-8	
Benzo(b)fluoranthene	350	ug/kg	40	8270C	05/27/12 02:59	PL	205-99-2	p
Benzo(ghi)perylene	110	ug/kg	40	8270C	05/27/12 02:59	PL	191-24-2	
Benzo(k)fluoranthene	370	ug/kg	40	8270C	05/27/12 02:59	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	105-60-2	
Carbazole	40	ug/kg	40	8270C	05/27/12 02:59	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	108-60-1	
Chrysene	220	ug/kg	40	8270C	05/27/12 02:59	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/27/12 02:59	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 02:59	PL	84-66-2	
Dimethyl phthalate	90	ug/kg	40	8270C	05/27/12 02:59	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/27/12 02:59	PL	117-81-7	
Fluoranthene	500	ug/kg	40	8270C	05/27/12 02:59	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	100	ug/kg	40	8270C	05/27/12 02:59	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/27/12 02:59	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	88-74-4	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52549.13 (continued)

Sample Tag: SB-A8-LK166_1-2'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 02:59	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	87-86-5	
Phenanthrene	260	ug/kg	40	8270C	05/27/12 02:59	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	108-95-2	
Pyrene	430	ug/kg	40	8270C	05/27/12 02:59	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 02:59	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52549.14
Sample Tag: SB-A8-LK166_7-8'
Collected Date/Time: 05/17/2012 16:15
Matrix: Soil
COC Reference: 67638

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/21/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/21/12 10:33	CCM		
Mercury Digestion	Completed			7471A	05/24/12 12:30	JRH		
Metal Digestion	Completed			3050B	05/25/12 11:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/18/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/25/12 13:50	PER	7440-36-0	
Arsenic	1.24	mg/kg	0.10	6020	05/25/12 13:50	PER	7440-38-2	
Barium	25.1	mg/kg	1.0	6020	05/25/12 13:50	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/25/12 13:50	PER	7440-41-7	
Boron	7.63	mg/kg	4.3	6020	05/25/12 13:50	PER	7440-42-8	
Cadmium	0.18	mg/kg	0.10	6020	05/25/12 13:50	PER	7440-43-9	
Chromium	29.7	mg/kg	0.21	6020	05/25/12 13:50	PER	7440-47-3	
Cobalt	2.54	mg/kg	0.21	6020	05/25/12 13:50	PER	7440-48-4	
Copper	32.2	mg/kg	0.21	6020	05/25/12 13:50	PER	7440-50-8	
Lead	42.4	mg/kg	0.21	6020	05/25/12 13:50	PER	7439-92-1	
Manganese	387	mg/kg	0.21	6020	05/25/12 13:50	PER	7439-96-5	
Mercury	0.0294	mg/kg	0.0058	7471A	05/24/12 15:04	JRT	7439-97-6	
Nickel	14.0	mg/kg	0.21	6020	05/25/12 13:50	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/25/12 13:50	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/25/12 13:50	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/25/12 13:50	PER	7440-28-0	
Vanadium	2.65	mg/kg	0.21	6020	05/25/12 13:50	PER	7440-62-2	
Zinc	13.6	mg/kg	1.0	6020	05/25/12 13:50	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	100	8082A	05/22/12 15:44	JANB	12674-11-2	Y
PCB-1242	400	ug/kg	100	8082A	05/22/12 15:44	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	100	8082A	05/22/12 15:44	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	100	8082A	05/22/12 15:44	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	100	8082A	05/22/12 15:44	JANB	12672-29-6	Y
PCB-1254	Not detected	ug/kg	100	8082A	05/22/12 15:44	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	100	8082A	05/22/12 15:44	JANB	11096-82-5	Y

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	83-32-9	X
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Y-Elevated reporting limit due to high target concentration

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52549.14 (continued)

Sample Tag: SB-A8-LK166_7-8'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acenaphthylene	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	98-86-2	X
Anthracene	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	120-12-7	X
Atrazine	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	05/27/12 03:29	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	105-60-2	X
Carbazole	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	108-60-1	X
Chrysene	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	05/27/12 03:29	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	05/27/12 03:29	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	05/27/12 03:29	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	206-44-0	X
Fluorene	2,000	ug/kg	1,000	8270C	05/27/12 03:29	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	193-39-5	X
Isophorone	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	05/27/12 03:29	PL	3/4-Cresol	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52549.14 (continued)

Sample Tag: SB-A8-LK166_7-8'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	05/27/12 03:29	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	85-01-8	X
Phenol	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	108-95-2	X
Pyrene	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	1,000	8270C	05/27/12 03:29	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52549.15
Sample Tag: SB-A8-LF161_9-10'
Collected Date/Time: 05/17/2012 10:51
Matrix: Soil
COC Reference: 67638

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

BNA Extraction	Completed			3550B	05/21/12 23:54	EMR		
Extraction, PCB	Completed			3550B	05/21/12 10:33	CCM		
Mercury Digestion	Completed			7471A	05/24/12 12:30	JRH		
Metal Digestion	Completed			3050B	05/25/12 11:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/18/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/25/12 13:52	PER	7440-36-0	
Arsenic	1.44	mg/kg	0.10	6020	05/25/12 13:52	PER	7440-38-2	
Barium	30.8	mg/kg	1.0	6020	05/25/12 13:52	PER	7440-39-3	
Beryllium	0.21	mg/kg	0.20	6020	05/25/12 13:52	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/25/12 13:52	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/25/12 13:52	PER	7440-43-9	
Chromium	4.80	mg/kg	0.20	6020	05/25/12 13:52	PER	7440-47-3	
Cobalt	4.73	mg/kg	0.20	6020	05/25/12 13:52	PER	7440-48-4	
Copper	6.69	mg/kg	0.20	6020	05/25/12 13:52	PER	7440-50-8	
Lead	4.97	mg/kg	0.20	6020	05/25/12 13:52	PER	7439-92-1	
Manganese	467	mg/kg	0.20	6020	05/25/12 13:52	PER	7439-96-5	
Mercury	0.0100	mg/kg	0.0056	7471A	05/24/12 15:06	JRT	7439-97-6	
Nickel	11.2	mg/kg	0.20	6020	05/25/12 13:52	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/25/12 13:52	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/25/12 13:52	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/25/12 13:52	PER	7440-28-0	
Vanadium	6.68	mg/kg	0.20	6020	05/25/12 13:52	PER	7440-62-2	
Zinc	14.6	mg/kg	1.0	6020	05/25/12 13:52	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/21/12 17:41	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/21/12 17:41	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/21/12 17:41	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/21/12 17:41	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/21/12 17:41	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/21/12 17:41	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/21/12 17:41	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52549.15 (continued)

Sample Tag: SB-A8-LF161_9-10'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 03:58	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/27/12 03:58	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 03:58	PL	84-66-2	
Dimethyl phthalate	50	ug/kg	40	8270C	05/27/12 03:58	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/27/12 03:58	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/27/12 03:58	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52549.15 (continued)

Sample Tag: SB-A8-LF161_9-10'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 03:58	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 03:58	PL	88-06-2	



2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

67639

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME **Randy Christensen**
COMPANY **ARCADIS**
ADDRESS **10559 Citiation Drive Suite 100**
CITY **Brighton** STATE **MI** ZIP CODE **48116**
PHONE NO. **810-225-1910** FAX NO. **810-229-8837** P.O. NO. **PO125047**
E-MAIL ADDRESS **randy.christensen@arcadis-us.com** QUOTE NO. **Task#: 5**

CONTACT NAME **Dave Favero** ☐ SAME
COMPANY **RACER TRUST**
ADDRESS **2930 Ecorse Road**
CITY **Ypsilanti** STATE **MI** ZIP CODE **48198**
PHONE NO. **313-486-9208** E-MAIL ADDRESS **dfavero@racertrust.org**

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME **Lansing Plant 2 Project# B0064479 2012** SAMPLER(S) - PLEASE PRINT/SIGN NAME **Meryl Hicks / Megan Meckley / Mags Meckley**
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIFE A=AIR W=WASTE

Containers & Preservatives

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER
	DATE	TIME										
52549.01	5/17/12	0900	SB-A8-LF161-05-1.5'	S	1						1	
.02		0938	SB-A8-LF161-5.5-6.5'	S	1						1	
.03		1020	SB-A8-LF161-4-8'	GW	5							
.04		1116	SB-A8-LF155-1-2'	S	1							
.05		1212	SB-A8-LH158-0.6-1	S	1							
.06		1222	SB-A8-LH158-2-3	S	1							
.07		1300	SB-A8-LH158-6.5-7.5	S	1							
.08		1358	SB-A8-LC158-1-2	S	1							
.09		1455	SB-A8-LC158-6-7	S	1							
.10		1505	SB-A8-LC158-6-10	GW	5							
.11		1655	SB-A8-LK168-4-8	GW	5							
.12			SB-A8-DUP37	S	1							

VOCs METALS

SVOCs

metals

PCBs

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions

Note: metals, PCBs
+SVOCs field filtered.

Amber red
in smaller cooler
Amber in smaller red
cooler

RELINQUISHED BY: **Megan Meckley** ☒ Sampler DATE **5/17/12** TIME **1752**
SIGNATURE/ORGANIZATION **Mags Meckley**
RELINQUISHED BY: **Mags Meckley** DATE **5-18-12** TIME **0830**
SIGNATURE/ORGANIZATION **Mags Meckley**
RELINQUISHED BY: DATE TIME
SIGNATURE/ORGANIZATION
RELINQUISHED BY: DATE TIME
SIGNATURE/ORGANIZATION

RELINQUISHED BY: DATE TIME
SIGNATURE/ORGANIZATION
RELINQUISHED BY: **Chadwick Bell** DATE **18 MAY 12** TIME **0905**
SIGNATURE/ORGANIZATION
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
NOTES: TEMP. ON ARRIVAL **4.7**

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME				Randy Christensen			
COMPANY				ARCADIS			
ADDRESS							
10559 Citation Drive Suite 100							
CITY						STATE	ZIP CODE
Brighton						MI	48116
PHONE NO.			FAX NO.			P.O. NO.	
810-225-1910			810-229-8837			PO125047	
E-MAIL ADDRESS						QUOTE NO.	
randv.christensen@arcadis-us.com						Task# 5	

CONTACT NAME		Dave Favero		☐ SAME	
COMPANY		RACER TRUST			
ADDRESS		2930 Ecorse Road			
CITY		Ypsilanti		STATE	MI
				ZIP CODE	48198
PHONE NO.		E-MAIL ADDRESS			
313-486-9208		dfavero@racertrust.org			

PROJECT NO./NAME Lansing Plant 2 Project# B0064479.2012	SAMPLER(S) - PLEASE PRINT/SIGN NAME Meryl Hicks
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER _____	
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____	

MATRIX	GW-GROUNDWATER	WW-WASTEWATER	S-SOIL	L-LIQUID	SD-SOLID
CODE	SL-SLUDGE	DW-DRINKING WATER	O-OIL	WP-WIPE	A-AIR
					W-WASTE

Containers & Preservatives

[illegible]

RELINQUISHED BY: <i>Meagan Mockler</i>	<i>X</i> Sampler	DATE	TIME
SIGNATURE/ORGANIZATION <i>Meagan Mockler</i>		<i>5/17/12</i>	<i>1730</i>
RELINQUISHED BY:		DATE	TIME
SIGNATURE/ORGANIZATION <i>STV Moh</i>		<i>5-18-12</i>	<i>0300</i>
RELINQUISHED BY:		DATE	TIME
SIGNATURE/ORGANIZATION			
RELINQUISHED BY:		DATE	TIME
SIGNATURE/ORGANIZATION			

RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES:	TEMP. ON ARRIVAL
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		



Analytical Laboratory Report

Report ID: S52554.01(01)
Generated on 05/30/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52554.01-S52554.07
Project: Lansing Plant #2 Project# B0064479.2012
Collected Date: 05/17/2012
Submitted Date/Time: 05/18/2012 09:05
Sampled by: I. Drost
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (7 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52554.01	SB-A1-RV74_2-3'	Soil	05/17/2012 12:00
S52554.02	SB-A1-RV74_8-9'	Soil	05/17/2012 12:15
S52554.03	SB-A1-RV74_12-13'	Soil	05/17/2012 12:20
S52554.04	SB-A1-RV74_15-16'	Groundwater	05/17/2012 12:40
S52554.05	SB-A1-RV74_22-23'	Soil	05/17/2012 13:30
S52554.06	SB-A1-RS78_3-4'	Soil	05/17/2012 14:00
S52554.07	SB-A1-RS78_10.5-11.5'	Groundwater	05/17/2012 14:40



Analytical Laboratory Report

Lab Sample ID: S52554.01
Sample Tag: SB-A1-RV74_2-3'
Collected Date/Time: 05/17/2012 12:00
Matrix: Soil
COC Reference: 68874

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/22/12 23:19	EMR		
Mercury Digestion	Completed			7471A	05/29/12 10:30	JRH		
Metal Digestion	Completed			3050B	05/25/12 11:00	PER		

Inorganics

Total Solids	82	%	1	Std M 2540 B	05/18/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.22	6020	05/25/12 14:53	PER	7440-36-0	
Arsenic	0.65	mg/kg	0.11	6020	05/25/12 14:53	PER	7440-38-2	
Barium	85.9	mg/kg	1.1	6020	05/25/12 14:53	PER	7440-39-3	
Beryllium	0.58	mg/kg	0.22	6020	05/25/12 14:53	PER	7440-41-7	
Boron	Not detected	mg/kg	4.4	6020	05/25/12 14:53	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.11	6020	05/25/12 14:53	PER	7440-43-9	
Chromium	6.00	mg/kg	0.22	6020	05/25/12 14:53	PER	7440-47-3	
Cobalt	3.50	mg/kg	0.22	6020	05/25/12 14:53	PER	7440-48-4	
Copper	10.7	mg/kg	0.22	6020	05/25/12 14:53	PER	7440-50-8	
Lead	8.94	mg/kg	0.22	6020	05/25/12 14:53	PER	7439-92-1	
Manganese	294	mg/kg	0.22	6020	05/25/12 14:53	PER	7439-96-5	
Mercury	0.0554	mg/kg	0.0061	7471A	05/29/12 13:30	JRT	7439-97-6	
Nickel	3.52	mg/kg	0.22	6020	05/25/12 14:53	PER	7440-02-0	
Selenium	0.26	mg/kg	0.22	6020	05/25/12 14:53	PER	7782-49-2	
Silver	0.11	mg/kg	0.11	6020	05/25/12 14:53	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.22	6020	05/25/12 14:53	PER	7440-28-0	
Vanadium	11.2	mg/kg	0.22	6020	05/25/12 14:53	PER	7440-62-2	
Zinc	9.14	mg/kg	1.1	6020	05/25/12 14:53	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/24/12 18:59	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52554.01 (continued)

Sample Tag: SB-A1-RV74_2-3'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/24/12 18:59	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/24/12 18:59	PL	84-66-2	
Dimethyl phthalate	400	ug/kg	40	8270C	05/24/12 18:59	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/24/12 18:59	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/24/12 18:59	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/24/12 18:59	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52554.01 (continued)

Sample Tag: SB-A1-RV74_2-3'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 18:59	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52554.02
Sample Tag: SB-A1-RV74_8-9'
Collected Date/Time: 05/17/2012 12:15
Matrix: Soil
COC Reference: 68874

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/22/12 23:19	EMR		
Mercury Digestion	Completed			7471A	05/29/12 10:30	JRH		
Metal Digestion	Completed			3050B	05/25/12 11:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/18/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/25/12 14:55	PER	7440-36-0	
Arsenic	1.74	mg/kg	0.10	6020	05/25/12 14:55	PER	7440-38-2	
Barium	34.4	mg/kg	1.0	6020	05/25/12 14:55	PER	7440-39-3	
Beryllium	0.23	mg/kg	0.21	6020	05/25/12 14:55	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/25/12 14:55	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/25/12 14:55	PER	7440-43-9	
Chromium	5.35	mg/kg	0.21	6020	05/25/12 14:55	PER	7440-47-3	
Cobalt	4.65	mg/kg	0.21	6020	05/25/12 14:55	PER	7440-48-4	
Copper	7.53	mg/kg	0.21	6020	05/25/12 14:55	PER	7440-50-8	
Lead	5.54	mg/kg	0.21	6020	05/25/12 14:55	PER	7439-92-1	
Manganese	267	mg/kg	0.21	6020	05/25/12 14:55	PER	7439-96-5	
Mercury	0.0127	mg/kg	0.0056	7471A	05/29/12 13:33	JRT	7439-97-6	
Nickel	10.7	mg/kg	0.21	6020	05/25/12 14:55	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/25/12 14:55	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/25/12 14:55	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/25/12 14:55	PER	7440-28-0	
Vanadium	8.26	mg/kg	0.21	6020	05/25/12 14:55	PER	7440-62-2	
Zinc	13.5	mg/kg	1.0	6020	05/25/12 14:55	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	1912-24-9	
1,1'-Biphenyl	80	ug/kg	40	8270C	05/24/12 19:28	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/24/12 19:28	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52554.02 (continued)

Sample Tag: SB-A1-RV74_8-9'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/24/12 19:28	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/24/12 19:28	PL	84-66-2	
Dimethyl phthalate	590	ug/kg	40	8270C	05/24/12 19:28	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/24/12 19:28	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	206-44-0	
Fluorene	60	ug/kg	40	8270C	05/24/12 19:28	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	78-59-1	
2-Methylnaphthalene	90	ug/kg	40	8270C	05/24/12 19:28	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/24/12 19:28	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/24/12 19:28	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	87-86-5	
Phenanthrene	80	ug/kg	40	8270C	05/24/12 19:28	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52554.02 (continued)

Sample Tag: SB-A1-RV74_8-9'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 19:28	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52554.03
Sample Tag: SB-A1-RV74_12-13'
Collected Date/Time: 05/17/2012 12:20
Matrix: Soil
COC Reference: 68874

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/22/12 23:19	EMR		
Mercury Digestion	Completed			7471A	05/29/12 10:30	JRH		
Metal Digestion	Completed			3050B	05/25/12 11:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/18/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/25/12 14:57	PER	7440-36-0	
Arsenic	1.09	mg/kg	0.10	6020	05/25/12 14:57	PER	7440-38-2	
Barium	29.6	mg/kg	1.0	6020	05/25/12 14:57	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/25/12 14:57	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/25/12 14:57	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/25/12 14:57	PER	7440-43-9	
Chromium	5.30	mg/kg	0.21	6020	05/25/12 14:57	PER	7440-47-3	
Cobalt	3.52	mg/kg	0.21	6020	05/25/12 14:57	PER	7440-48-4	
Copper	7.93	mg/kg	0.21	6020	05/25/12 14:57	PER	7440-50-8	
Lead	4.18	mg/kg	0.21	6020	05/25/12 14:57	PER	7439-92-1	
Manganese	237	mg/kg	0.21	6020	05/25/12 14:57	PER	7439-96-5	
Mercury	0.0102	mg/kg	0.0057	7471A	05/29/12 13:35	JRT	7439-97-6	
Nickel	8.53	mg/kg	0.21	6020	05/25/12 14:57	PER	7440-02-0	
Selenium	0.27	mg/kg	0.21	6020	05/25/12 14:57	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/25/12 14:57	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/25/12 14:57	PER	7440-28-0	
Vanadium	6.89	mg/kg	0.21	6020	05/25/12 14:57	PER	7440-62-2	
Zinc	13.0	mg/kg	1.0	6020	05/25/12 14:57	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/24/12 19:57	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52554.03 (continued)

Sample Tag: SB-A1-RV74_12-13'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/24/12 19:57	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/24/12 19:57	PL	84-66-2	
Dimethyl phthalate	430	ug/kg	40	8270C	05/24/12 19:57	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/24/12 19:57	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/24/12 19:57	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	86-30-6	
Naphthalene	70	ug/kg	40	8270C	05/24/12 19:57	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/24/12 19:57	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52554.03 (continued)

Sample Tag: SB-A1-RV74_12-13'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 19:57	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52554.04
Sample Tag: SB-A1-RV74_15-16'
Collected Date/Time: 05/17/2012 12:40
Matrix: Groundwater
COC Reference: 68874

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.7	IR
2	40ml Glass	HCL	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/23/12 21:08	EMR		
Mercury Digestion	Completed			7471A	05/21/12 13:30	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:42	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:42	SLS	7440-38-2	
Barium, Dissolved	0.460	mg/L	0.010	6020	05/21/12 21:42	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 21:42	SLS	7440-41-7	
Boron, Dissolved	0.19	mg/L	0.04	6020	05/21/12 21:42	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 21:42	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 21:42	SLS	7440-47-3	
Cobalt, Dissolved	0.021	mg/L	0.010	6020	05/21/12 21:42	SLS	7440-48-4	
Copper, Dissolved	0.003	mg/L	0.002	6020	05/21/12 21:42	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:42	SLS	7439-92-1	
Manganese, Dissolved	1.83	mg/L	0.010	6020	05/21/12 21:42	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/21/12 16:19	JRT	7439-97-6	
Nickel, Dissolved	0.071	mg/L	0.010	6020	05/21/12 21:42	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:42	SLS	7782-49-2	
Silver, Dissolved	0.0002	mg/L	0.0002	6020	05/21/12 21:42	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:42	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:42	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 21:42	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/26/12 22:36	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/26/12 22:36	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	205-99-2	



Analytical Laboratory Report

Lab Sample ID: S52554.04 (continued)

Sample Tag: SB-A1-RV74_15-16'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/27/12 17:19	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/27/12 17:19	PL	84-66-2	
Dimethyl phthalate	4	ug/L	2	8270C	05/27/12 17:19	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/27/12 17:19	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	129-00-0	



Analytical Laboratory Report

Lab Sample ID: S52554.04 (continued)

Sample Tag: SB-A1-RV74_15-16'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/27/12 17:19	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	05/29/12 12:58	WAT	123-91-1	



Analytical Laboratory Report

Lab Sample ID: S52554.05
Sample Tag: SB-A1-RV74_22-23'
Collected Date/Time: 05/17/2012 13:30
Matrix: Soil
COC Reference: 68874

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/22/12 23:19	EMR		
Mercury Digestion	Completed			7471A	05/29/12 10:30	JRH		
Metal Digestion	Completed			3050B	05/25/12 11:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	05/18/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/25/12 14:59	PER	7440-36-0	
Arsenic	1.90	mg/kg	0.10	6020	05/25/12 14:59	PER	7440-38-2	
Barium	14.1	mg/kg	1.0	6020	05/25/12 14:59	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/25/12 14:59	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/25/12 14:59	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/25/12 14:59	PER	7440-43-9	
Chromium	2.38	mg/kg	0.20	6020	05/25/12 14:59	PER	7440-47-3	
Cobalt	2.01	mg/kg	0.20	6020	05/25/12 14:59	PER	7440-48-4	
Copper	6.01	mg/kg	0.20	6020	05/25/12 14:59	PER	7440-50-8	
Lead	3.17	mg/kg	0.20	6020	05/25/12 14:59	PER	7439-92-1	
Manganese	228	mg/kg	0.20	6020	05/25/12 14:59	PER	7439-96-5	
Mercury	0.0090	mg/kg	0.0053	7471A	05/29/12 13:37	JRT	7439-97-6	
Nickel	6.43	mg/kg	0.20	6020	05/25/12 14:59	PER	7440-02-0	
Selenium	0.29	mg/kg	0.20	6020	05/25/12 14:59	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/25/12 14:59	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/25/12 14:59	PER	7440-28-0	
Vanadium	3.80	mg/kg	0.20	6020	05/25/12 14:59	PER	7440-62-2	
Zinc	9.62	mg/kg	1.0	6020	05/25/12 14:59	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/24/12 20:26	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52554.05 (continued)

Sample Tag: SB-A1-RV74_22-23'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/24/12 20:26	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/24/12 20:26	PL	84-66-2	
Dimethyl phthalate	340	ug/kg	40	8270C	05/24/12 20:26	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/24/12 20:26	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/24/12 20:26	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/24/12 20:26	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52554.05 (continued)

Sample Tag: SB-A1-RV74_22-23'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 20:26	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52554.06
Sample Tag: SB-A1-RS78_3-4'
Collected Date/Time: 05/17/2012 14:00
Matrix: Soil
COC Reference: 68874

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/22/12 23:19	EMR		
Mercury Digestion	Completed			7471A	05/29/12 10:30	JRH		
Metal Digestion	Completed			3050B	05/25/12 13:00	PER		

Inorganics

Total Solids	94	%	1	Std M 2540 B	05/18/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/25/12 15:21	PER	7440-36-0	
Arsenic	0.74	mg/kg	0.10	6020	05/25/12 15:21	PER	7440-38-2	
Barium	4.69	mg/kg	1.0	6020	05/25/12 15:21	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/25/12 15:21	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/25/12 15:21	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/25/12 15:21	PER	7440-43-9	
Chromium	0.76	mg/kg	0.20	6020	05/25/12 15:21	PER	7440-47-3	
Cobalt	0.96	mg/kg	0.20	6020	05/25/12 15:21	PER	7440-48-4	
Copper	2.44	mg/kg	0.20	6020	05/25/12 15:21	PER	7440-50-8	
Lead	1.80	mg/kg	0.20	6020	05/25/12 15:21	PER	7439-92-1	
Manganese	137	mg/kg	0.20	6020	05/25/12 15:21	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0053	7471A	05/29/12 13:39	JRT	7439-97-6	
Nickel	2.48	mg/kg	0.20	6020	05/25/12 15:21	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/25/12 15:21	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/25/12 15:21	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/25/12 15:21	PER	7440-28-0	
Vanadium	1.34	mg/kg	0.20	6020	05/25/12 15:21	PER	7440-62-2	
Zinc	4.27	mg/kg	1.0	6020	05/25/12 15:21	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/24/12 20:56	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52554.06 (continued)

Sample Tag: SB-A1-RS78_3-4'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/24/12 20:56	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/24/12 20:56	PL	84-66-2	
Dimethyl phthalate	270	ug/kg	40	8270C	05/24/12 20:56	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	130	ug/kg	70	8270C	05/24/12 20:56	PL	117-81-7	B
Fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/24/12 20:56	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/24/12 20:56	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52554.06 (continued)

Sample Tag: SB-A1-RS78_3-4'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 20:56	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52554.07
Sample Tag: SB-A1-RS78_10.5-11.5'
Collected Date/Time: 05/17/2012 14:40
Matrix: Groundwater
COC Reference: 68874

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.7	IR
2	40ml Glass	HCL	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/23/12 21:08	EMR		
Mercury Digestion	Completed			7471A	05/21/12 13:30	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:46	SLS	7440-36-0	
Arsenic, Dissolved	0.018	mg/L	0.002	6020	05/21/12 21:46	SLS	7440-38-2	
Barium, Dissolved	0.153	mg/L	0.010	6020	05/21/12 21:46	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 21:46	SLS	7440-41-7	
Boron, Dissolved	0.04	mg/L	0.04	6020	05/21/12 21:46	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 21:46	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 21:46	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 21:46	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:46	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:46	SLS	7439-92-1	
Manganese, Dissolved	0.341	mg/L	0.010	6020	05/21/12 21:46	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/21/12 16:21	JRT	7439-97-6	
Nickel, Dissolved	0.015	mg/L	0.010	6020	05/21/12 21:46	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:46	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 21:46	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:46	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:46	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 21:46	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.06	8270C	05/26/12 23:05	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.06	8270C	05/26/12 23:05	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	83-32-9	X
Acenaphthylene	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	208-96-8	X
Acetophenone	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	98-86-2	X
Anthracene	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	120-12-7	X
Atrazine	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	1912-24-9	X
1,1'-Biphenyl	20	ug/L	10	8270C	05/28/12 02:07	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	84-74-2	X
Benzaldehyde	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	50-32-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52554.07 (continued)

Sample Tag: SB-A1-RS78_10.5-11.5'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(b)fluoranthene	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/L	20	8270C	05/28/12 02:07	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	7005-72-3	X
Caprolactam	Not detected	ug/L	110	8270C	05/28/12 02:07	PL	105-60-2	X
Carbazole	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	108-60-1	X
Chrysene	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	606-20-2	X
4,6-Dinitro-2-methylphenol	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	53-70-3	X
Dibenzofuran	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/L	20	8270C	05/28/12 02:07	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/L	20	8270C	05/28/12 02:07	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	20	8270C	05/28/12 02:07	PL	117-81-7	X
Fluoranthene	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	206-44-0	X
Fluorene	20	ug/L	10	8270C	05/28/12 02:07	PL	86-73-7	X
Hexachlorobutadiene	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	77-47-4	X
Hexachloroethane	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	193-39-5	X
Isophorone	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	78-59-1	X
2-Methylnaphthalene	170	ug/L	10	8270C	05/28/12 02:07	PL	91-57-6	X
2-Methylphenol	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	86-30-6	X
Naphthalene	130	ug/L	10	8270C	05/28/12 02:07	PL	91-20-3	X
Nitrobenzene	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	87-86-5	X
Phenanthrene	20	ug/L	10	8270C	05/28/12 02:07	PL	85-01-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52554.07 (continued)

Sample Tag: SB-A1-RS78_10.5-11.5'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Phenol	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	108-95-2	X
Pyrene	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/L	10	8270C	05/28/12 02:07	PL	88-06-2	X
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	05/29/12 14:29	WAT	123-91-1	

X-Elevated reporting limit due to matrix interference



C.O.C. PAGE # 2 OF 2
1 OF 1

68874

INVOICE TO

CONTACT NAME		Dave Favero		☐ SAME	
COMPANY		RACER TRUST			
ADDRESS		2930 Ecorse Road			
CITY		Ypsilanti		STATE	MI
				ZIP CODE	48198
PHONE NO.		313-486-9208		E-MAIL ADDRESS	
				dfavero@racetrust.org	
ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)					

VOCs/ 1,4 Dioxane						Certifications
SVOCs						☐ OHIO VAP ☐ Drinking Water
PCBs						☐ DoD ☐ NPDES
Metals (w/Hg)						Project Locations
						☐ Detroit ☐ New York
						☒ Other <u>Lansing, MI</u>
						Special Instructions

[illegible]

RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
SEAL NO.	SEAL INTACT	INITIALS	NOTES:	TEMP. ON ARRIVAL
	YES ☐ NO ☐			
SEAL NO.	SEAL INTACT	INITIALS		
	YES ☐ NO ☐			

Rev 1 15 12



Analytical Laboratory Report

Revised Report

Report ID: S52562.01(02)

Generated on 06/13/2012

Replaces report S52562.01(01) generated on 06/01/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52562.01-S52562.04

Project: Lansing Plant #2 Project# B0064479.2012

Collected Date: 05/15/2012

Submitted Date/Time: 05/18/2012 09:05

Sampled by: Unknown

P.O. #: PO125047

Sample tag changes 6-13-12

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Revised Report

Sample Summary (4 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52562.01	VAP-A5.2-NK132_1-2	Soil	05/15/2012 14:45
S52562.02	VAP-A5.2-NK132_8-9	Soil	05/15/2012 15:30
S52562.03	VAP-A5.2-NK132_10-11	Groundwater	05/15/2012 16:05
S52562.04	Trip Blank	Liquid	05/15/2012 00:01



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52562.01
Sample Tag: VAP-A5.2-NK132_1-2
Collected Date/Time: 05/15/2012 14:45
Matrix: Soil
COC Reference: 68871

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	95	%	1	Std M 2540 B	05/16/12 15:00	JGH		
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/kg	5,000	8260B	05/29/12 17:26	JGH	123-91-1	
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TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	76-13-1	
Acetone	Not detected	ug/kg	550	5035/8260B	05/29/12 19:35	JGH	67-64-1	
Carbon disulfide	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	75-15-0	
Methyl Acetate	Not detected	ug/kg	550	5035/8260B	05/29/12 19:35	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	550	5035/8260B	05/29/12 19:35	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	156-59-2	
Chloroform	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	71-55-6	
Cyclohexane	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	550	5035/8260B	05/29/12 19:35	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	550	5035/8260B	05/29/12 19:35	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	56-23-5	
Benzene	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	10061-01-5	
Toluene	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	106-93-4	
Chlorobenzene	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	108-90-7	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52562.01 (continued)

Sample Tag: VAP-A5.2-NK132_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	79-34-5	
Ethylbenzene	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	05/29/12 19:35	JGH		
o-Xylene	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	95-47-6	
Styrene	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	98-82-8	
Bromoform	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	50	5035/8260B	05/29/12 19:35	JGH	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52562.02
Sample Tag: VAP-A5.2-NK132_8-9
Collected Date/Time: 05/15/2012 15:30
Matrix: Soil
COC Reference: 68871

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	92	%	1	Std M 2540 B	05/16/12 15:00	JGH		
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/kg	6,000	8260B	05/29/12 17:46	JGH	123-91-1	
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TCL Volatile Organics HighLevel 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	76-13-1	
Acetone	Not detected	ug/kg	570	5035/8260B	05/29/12 19:55	JGH	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	75-15-0	
Methyl Acetate	Not detected	ug/kg	570	5035/8260B	05/29/12 19:55	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	570	5035/8260B	05/29/12 19:55	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	156-60-5	
1,1-Dichloroethane	160	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	570	5035/8260B	05/29/12 19:55	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	570	5035/8260B	05/29/12 19:55	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	107-06-2	
Trichloroethene	220	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	79-00-5	
Tetrachloroethene	160	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	108-90-7	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52562.02 (continued)

Sample Tag: VAP-A5.2-NK132_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	05/29/12 19:55	JGH		
o-Xylene	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	106-46-7	
1,2-Dichlorobenzene	110	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	05/29/12 19:55	JGH	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52562.03
Sample Tag: VAP-A5.2-NK132_10-11
Collected Date/Time: 05/15/2012 16:05
Matrix: Groundwater
COC Reference: 68871

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	100	8260B - SIM	05/29/12 18:26	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	76-13-1	Y
Acetone	Not detected	ug/L	100	8260B	05/24/12 21:39	WAT	67-64-1	Y
Carbon disulfide	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	75-15-0	Y
Methyl Acetate	Not detected	ug/L	100	8260B	05/24/12 21:39	WAT	79-20-9	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	1634-04-4	Y
2-Butanone (MEK)	Not detected	ug/L	100	8260B	05/24/12 21:39	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	75-01-4	Y
Bromomethane	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	74-83-9	Y
Chloroethane	140	ug/L	10	8260B	05/24/12 21:39	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	75-69-4	Y
1,1-Dichloroethene	10	ug/L	10	8260B	05/24/12 21:39	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	156-60-5	Y
1,1-Dichloroethane	400	ug/L	10	8260B	05/24/12 21:39	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	156-59-2	Y
Chloroform	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	67-66-3	Y
1,1,1-Trichloroethane	700	ug/L	10	8260B	05/24/12 21:39	WAT	71-55-6	Y
Cyclohexane	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	110-82-7	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	100	8260B	05/24/12 21:39	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	100	8260B	05/24/12 21:39	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	56-23-5	Y
Benzene	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	75-27-4	Y
Methyl cyclohexane	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	108-87-2	Y
cis-1,3-Dichloropropene	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	10061-01-5	Y
Toluene	30	ug/L	10	8260B	05/24/12 21:39	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	127-18-4	Y
Dibromochloromethane	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	124-48-1	Y
1,2-Dibromoethane	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	108-90-7	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	79-34-5	Y
Ethylbenzene	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	100-41-4	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52562.03 (continued)

Sample Tag: VAP-A5.2-NK132_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
p,m-Xylene	Not detected	ug/L	20	8260B	05/24/12 21:39	WAT		Y
o-Xylene	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	95-47-6	Y
Styrene	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	75-25-2	Y
1,3-Dichlorobenzene	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	95-50-1	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	120-82-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	10	8260B	05/24/12 21:39	WAT	96-12-8	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52562.04
Sample Tag: Trip Blank
Collected Date/Time: 05/15/2012 00:01
Matrix: Liquid
COC Reference: 68871

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	100	8260B - SIM	05/29/12 18:06	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	05/24/12 06:13	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	05/24/12 06:13	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	05/24/12 06:13	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	05/24/12 06:13	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	05/24/12 06:13	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	05/24/12 06:13	WAT		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52562.04 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	05/24/12 06:13	WAT	96-12-8	



68871

INVOICE TO

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208		E-MAIL ADDRESS dfavero@racetrust.org	
ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)			

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	
NOTES:		TEMP. ON ARRIVAL	

Rev 1 15 12



Andy Ball <andyball.meritlabs@gmail.com>

RACER Lansing - COC

Christensen, Randy <Randy.Christensen@arcadis-us.com>

To: Andy Ball <andyball@meritlabs.com>

Fri, May 18, 2012 at 10:34 AM

According to Meryl:

- The "NELAC" VOC samples you received today you should already have dry weight samples for. These are samples that were collected (and submitted) between 05/11 and 05/17. So you should be able to match up sample IDs to find dry weight samples.
- You should have sample bottles for both SB-A17-DF146-1_2 (collected at 10:33) and SB-A17-DF146-11_12 (collected at 13:10). Please let me know if you have both sets of bottles and if both are listed on the COC.

Thanks**Randy S. Christensen, P.E.** | Task Manager | Randy.Christensen@arcadis-us.com

ARCADIS U.S., Inc. | 10559 Citation Dr., Suite 100 | Brighton, MI 48116

T: 810.225.1940 | M: 817.819.8800 | F: 810.229.8594

www.arcadis-us.com

ARCADIS, Imagine the result

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Analytical Laboratory Report

Revised Report

Report ID: S52566.01(02)

Generated on 06/11/2012

Replaces report S52566.01(01) generated on 06/01/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52566.01-S52566.17

Project: Lansing Plant #2 Project# B0064479.2012

Collected Date: 05/18/2012

Submitted Date/Time: 05/18/2012 16:50

Sampled by: Meryl Hicks

P.O. #: PO125047

Sample tags updated to match COC on samples .11, .12, .13, .14, and .16

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Revised Report

Sample Summary (17 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52566.01	SB-A8-LN163_1.5-2.5	Soil	05/18/2012 08:15
S52566.02	SB-A8-LN163_8-9	Soil	05/18/2012 08:55
S52566.03	SB-A8-LN163_4-8	Groundwater	05/18/2012 09:10
S52566.04	SB-A8-LN168_1-2	Soil	05/18/2012 10:15
S52566.05	SB-A8-LN163_16-17	Soil	05/18/2012 10:50
S52566.06	SB-A8-LN168_10-11	Soil	05/18/2012 11:22
S52566.07	SB-A8-LN168_9-13	Groundwater	05/18/2012 11:30
S52566.08	SB-A8-LN168_9-13 MS	Groundwater	05/18/2012 11:30
S52566.09	SB-A8-LN168_9-13 MSD	Groundwater	05/18/2012 11:30
S52566.10	SB-A8-LN168_18-19	Soil	05/18/2012 13:18
S52566.11	SB-A8-LP166_7-8	Soil	05/18/2012 13:50
S52566.12	SB-A8-LP166_1-2	Soil	05/18/2012 13:52
S52566.13	SB-A8-LP166_3.5-7.5	Groundwater	05/18/2012 14:10
S52566.14	SB-A8-LP166_17-18	Soil	05/18/2012 15:35
S52566.15	SB-A8-DUP39	Soil	05/18/2012 00:01
S52566.16	SB-A8-LP166_16-20	Groundwater	05/18/2012 15:55
S52566.17	Trip Blank	Liquid	05/18/2012 00:01



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.01
Sample Tag: SB-A8-LN163_1.5-2.5
Collected Date/Time: 05/18/2012 08:15
Matrix: Soil
COC Reference: 67637

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/22/12 23:19	EMR		
Extraction, PCB	Completed			3550B	05/21/12 10:33	CCM		
Mercury Digestion	Completed			7471A	05/29/12 13:10	JRH		
Metal Digestion	Completed			3050B	05/25/12 13:00	PER		

Inorganics

Total Solids	96	%	1	Std M 2540 B	05/21/12 12:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/25/12 16:09	PER	7440-36-0	
Arsenic	1.61	mg/kg	0.10	6020	05/25/12 16:09	PER	7440-38-2	
Barium	24.5	mg/kg	1.0	6020	05/25/12 16:09	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/25/12 16:09	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/25/12 16:09	PER	7440-42-8	
Cadmium	0.13	mg/kg	0.10	6020	05/25/12 16:09	PER	7440-43-9	
Chromium	6.82	mg/kg	0.20	6020	05/25/12 16:09	PER	7440-47-3	
Cobalt	3.34	mg/kg	0.20	6020	05/25/12 16:09	PER	7440-48-4	
Copper	10.5	mg/kg	0.20	6020	05/25/12 16:09	PER	7440-50-8	
Lead	29.3	mg/kg	0.20	6020	05/25/12 16:09	PER	7439-92-1	
Manganese	366	mg/kg	0.20	6020	05/25/12 16:09	PER	7439-96-5	
Mercury	0.0062	mg/kg	0.0052	7471A	05/29/12 15:33	JRT	7439-97-6	
Nickel	7.96	mg/kg	0.20	6020	05/25/12 16:09	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/25/12 16:09	PER	7782-49-2	
Silver	0.18	mg/kg	0.10	6020	05/25/12 16:09	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/25/12 16:09	PER	7440-28-0	
Vanadium	4.69	mg/kg	0.20	6020	05/25/12 16:09	PER	7440-62-2	
Zinc	9.39	mg/kg	1.0	6020	05/25/12 16:09	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/21/12 17:52	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/21/12 17:52	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/21/12 17:52	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/21/12 17:52	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/21/12 17:52	JANB	12672-29-6	
PCB-1254	7	ug/kg	3	8082A	05/21/12 17:52	JANB	11097-69-1	Q
PCB-1260	Not detected	ug/kg	3	8082A	05/21/12 17:52	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	83-32-9	X
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Q-Reported result represents most abundant aroclor

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.01 (continued)

Sample Tag: SB-A8-LN163_1.5-2.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acenaphthylene	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	98-86-2	X
Anthracene	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	120-12-7	X
Atrazine	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	1,000	8270C	05/25/12 00:21	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	105-60-2	X
Carbazole	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	108-60-1	X
Chrysene	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	1,000	8270C	05/25/12 00:21	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	1,000	8270C	05/25/12 00:21	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	1,000	8270C	05/25/12 00:21	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	206-44-0	X
Fluorene	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	193-39-5	X
Isophorone	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	1,000	8270C	05/25/12 00:21	PL	3/4-Cresol	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.01 (continued)

Sample Tag: SB-A8-LN163_1.5-2.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	1,000	8270C	05/25/12 00:21	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	85-01-8	X
Phenol	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	108-95-2	X
Pyrene	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	500	8270C	05/25/12 00:21	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.02
Sample Tag: SB-A8-LN163_8-9
Collected Date/Time: 05/18/2012 08:55
Matrix: Soil
COC Reference: 67637

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/22/12 23:19	EMR		
Extraction, PCB	Completed			3550B	05/21/12 10:33	CCM		
Mercury Digestion	Completed			7471A	05/29/12 13:10	JRH		
Metal Digestion	Completed			3050B	05/25/12 13:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/21/12 12:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/25/12 16:12	PER	7440-36-0	
Arsenic	0.83	mg/kg	0.10	6020	05/25/12 16:12	PER	7440-38-2	
Barium	28.4	mg/kg	1.0	6020	05/25/12 16:12	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/25/12 16:12	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/25/12 16:12	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/25/12 16:12	PER	7440-43-9	
Chromium	2.67	mg/kg	0.20	6020	05/25/12 16:12	PER	7440-47-3	
Cobalt	3.21	mg/kg	0.20	6020	05/25/12 16:12	PER	7440-48-4	
Copper	8.95	mg/kg	0.20	6020	05/25/12 16:12	PER	7440-50-8	
Lead	3.87	mg/kg	0.20	6020	05/25/12 16:12	PER	7439-92-1	
Manganese	240	mg/kg	0.20	6020	05/25/12 16:12	PER	7439-96-5	
Mercury	0.0118	mg/kg	0.0057	7471A	05/29/12 15:35	JRT	7439-97-6	
Nickel	12.3	mg/kg	0.20	6020	05/25/12 16:12	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/25/12 16:12	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/25/12 16:12	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/25/12 16:12	PER	7440-28-0	
Vanadium	4.84	mg/kg	0.20	6020	05/25/12 16:12	PER	7440-62-2	
Zinc	9.71	mg/kg	1.0	6020	05/25/12 16:12	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/21/12 18:02	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/21/12 18:02	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/21/12 18:02	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/21/12 18:02	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/21/12 18:02	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/21/12 18:02	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/21/12 18:02	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.02 (continued)

Sample Tag: SB-A8-LN163_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/24/12 21:25	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/24/12 21:25	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/24/12 21:25	PL	84-66-2	
Dimethyl phthalate	260	ug/kg	40	8270C	05/24/12 21:25	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/24/12 21:25	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/24/12 21:25	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.02 (continued)

Sample Tag: SB-A8-LN163_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/24/12 21:25	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 21:25	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.03
Sample Tag: SB-A8-LN163_4-8
Collected Date/Time: 05/18/2012 09:10
Matrix: Groundwater
COC Reference: 67637

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR
2	1L Amber	None	Yes	4.2	IR
1	125ml Plastic	HNO3	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/23/12 21:08	EMR		
Extraction, PCB	Completed			3510C	05/22/12 17:30	ADB		
Mercury Digestion	Completed			7471A	05/21/12 13:30	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:55	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:55	SLS	7440-38-2	
Barium, Dissolved	0.063	mg/L	0.010	6020	05/21/12 21:55	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 21:55	SLS	7440-41-7	
Boron, Dissolved	0.45	mg/L	0.04	6020	05/21/12 21:55	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 21:55	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 21:55	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 21:55	SLS	7440-48-4	
Copper, Dissolved	0.002	mg/L	0.002	6020	05/21/12 21:55	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:55	SLS	7439-92-1	
Manganese, Dissolved	1.40	mg/L	0.010	6020	05/21/12 21:55	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/21/12 16:01	JRT	7439-97-6	
Nickel, Dissolved	0.012	mg/L	0.010	6020	05/21/12 21:55	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:55	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 21:55	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:55	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:55	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 21:55	SLS	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List Dissolved (Column 1)**

PCB-1016	Not detected	ug/L	0.05	8082A	05/23/12 14:59	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/23/12 14:59	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/23/12 14:59	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/23/12 14:59	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/23/12 14:59	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/23/12 14:59	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/23/12 14:59	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/26/12 23:34	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/26/12 23:34	PL	118-74-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.03 (continued)

Sample Tag: SB-A8-LN163_4-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/27/12 17:49	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/27/12 17:49	PL	84-66-2	
Dimethyl phthalate	4	ug/L	2	8270C	05/27/12 17:49	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/27/12 17:49	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	88-75-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.03 (continued)

Sample Tag: SB-A8-LN163_4-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/27/12 17:49	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	05/29/12 13:16	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	05/29/12 20:21	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	05/29/12 20:21	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	05/29/12 20:21	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	156-60-5	
1,1-Dichloroethane	2	ug/L	1	8260B	05/29/12 20:21	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	67-66-3	
1,1,1-Trichloroethane	1	ug/L	1	8260B	05/29/12 20:21	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	05/29/12 20:21	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	05/29/12 20:21	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	10061-01-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.03 (continued)

Sample Tag: SB-A8-LN163_4-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Toluene	1	ug/L	1	8260B	05/29/12 20:21	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	05/29/12 20:21	WAT		
o-Xylene	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	05/29/12 20:21	WAT	96-12-8	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.04
Sample Tag: SB-A8-LN168_1-2
Collected Date/Time: 05/18/2012 10:15
Matrix: Soil
COC Reference: 67637

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/22/12 23:19	EMR		
Extraction, PCB	Completed			3550B	05/21/12 10:33	CCM		
Mercury Digestion	Completed			7471A	05/29/12 13:10	JRH		
Metal Digestion	Completed			3050B	05/25/12 13:00	PER		

Inorganics

Total Solids	96	%	1	Std M 2540 B	05/21/12 12:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/25/12 16:14	PER	7440-36-0	
Arsenic	1.08	mg/kg	0.10	6020	05/25/12 16:14	PER	7440-38-2	
Barium	5.49	mg/kg	1.0	6020	05/25/12 16:14	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/25/12 16:14	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/25/12 16:14	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/25/12 16:14	PER	7440-43-9	
Chromium	0.75	mg/kg	0.20	6020	05/25/12 16:14	PER	7440-47-3	
Cobalt	0.82	mg/kg	0.20	6020	05/25/12 16:14	PER	7440-48-4	
Copper	2.51	mg/kg	0.20	6020	05/25/12 16:14	PER	7440-50-8	
Lead	1.65	mg/kg	0.20	6020	05/25/12 16:14	PER	7439-92-1	
Manganese	83.7	mg/kg	0.20	6020	05/25/12 16:14	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0052	7471A	05/29/12 15:37	JRT	7439-97-6	
Nickel	2.59	mg/kg	0.20	6020	05/25/12 16:14	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/25/12 16:14	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/25/12 16:14	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/25/12 16:14	PER	7440-28-0	
Vanadium	1.15	mg/kg	0.20	6020	05/25/12 16:14	PER	7440-62-2	
Zinc	5.60	mg/kg	1.0	6020	05/25/12 16:14	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/21/12 18:13	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/21/12 18:13	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/21/12 18:13	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/21/12 18:13	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/21/12 18:13	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/21/12 18:13	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/21/12 18:13	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	208-96-8	
Acetophenone	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.04 (continued)

Sample Tag: SB-A8-LN168_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	120-12-7	
Atrazine	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/24/12 21:54	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	105-60-2	
Carbazole	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	108-60-1	
Chrysene	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/24/12 21:54	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/24/12 21:54	PL	84-66-2	
Dimethyl phthalate	240	ug/kg	30	8270C	05/24/12 21:54	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/24/12 21:54	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	206-44-0	
Fluorene	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	193-39-5	
Isophorone	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/24/12 21:54	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.04 (continued)

Sample Tag: SB-A8-LN168_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	86-30-6	
Naphthalene	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/24/12 21:54	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	85-01-8	
Phenol	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	108-95-2	
Pyrene	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	30	8270C	05/24/12 21:54	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.05
Sample Tag: SB-A8-LN163_16-17
Collected Date/Time: 05/18/2012 10:50
Matrix: Soil
COC Reference: 67637

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/22/12 23:19	EMR		
Extraction, PCB	Completed			3550B	05/21/12 10:33	CCM		
Mercury Digestion	Completed			7471A	05/29/12 13:10	JRH		
Metal Digestion	Completed			3050B	05/25/12 13:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/21/12 12:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/25/12 16:16	PER	7440-36-0	
Arsenic	1.28	mg/kg	0.10	6020	05/25/12 16:16	PER	7440-38-2	
Barium	22.5	mg/kg	1.0	6020	05/25/12 16:16	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/25/12 16:16	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/25/12 16:16	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/25/12 16:16	PER	7440-43-9	
Chromium	6.33	mg/kg	0.20	6020	05/25/12 16:16	PER	7440-47-3	
Cobalt	2.45	mg/kg	0.20	6020	05/25/12 16:16	PER	7440-48-4	
Copper	8.61	mg/kg	0.20	6020	05/25/12 16:16	PER	7440-50-8	
Lead	3.99	mg/kg	0.20	6020	05/25/12 16:16	PER	7439-92-1	
Manganese	241	mg/kg	0.20	6020	05/25/12 16:16	PER	7439-96-5	
Mercury	0.0086	mg/kg	0.0057	7471A	05/29/12 15:40	JRT	7439-97-6	
Nickel	7.78	mg/kg	0.20	6020	05/25/12 16:16	PER	7440-02-0	
Selenium	0.21	mg/kg	0.20	6020	05/25/12 16:16	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/25/12 16:16	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/25/12 16:16	PER	7440-28-0	
Vanadium	4.39	mg/kg	0.20	6020	05/25/12 16:16	PER	7440-62-2	
Zinc	12.2	mg/kg	1.0	6020	05/25/12 16:16	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/21/12 18:23	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/21/12 18:23	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/21/12 18:23	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/21/12 18:23	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/21/12 18:23	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/21/12 18:23	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/21/12 18:23	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.05 (continued)

Sample Tag: SB-A8-LN163_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/24/12 22:24	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/24/12 22:24	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/24/12 22:24	PL	84-66-2	
Dimethyl phthalate	230	ug/kg	40	8270C	05/24/12 22:24	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/24/12 22:24	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/24/12 22:24	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.05 (continued)

Sample Tag: SB-A8-LN163_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/24/12 22:24	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 22:24	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.06
Sample Tag: SB-A8-LN168_10-11
Collected Date/Time: 05/18/2012 11:22
Matrix: Soil
COC Reference: 67637

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/22/12 23:19	EMR		
Extraction, PCB	Completed			3550B	05/21/12 10:33	CCM		
Mercury Digestion	Completed			7471A	05/29/12 13:10	JRH		
Metal Digestion	Completed			3050B	05/25/12 13:00	PER		

Inorganics

Total Solids	84	%	1	Std M 2540 B	05/21/12 12:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/25/12 16:18	PER	7440-36-0	
Arsenic	1.10	mg/kg	0.10	6020	05/25/12 16:18	PER	7440-38-2	
Barium	6.33	mg/kg	1.0	6020	05/25/12 16:18	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/25/12 16:18	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/25/12 16:18	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/25/12 16:18	PER	7440-43-9	
Chromium	0.82	mg/kg	0.20	6020	05/25/12 16:18	PER	7440-47-3	
Cobalt	0.85	mg/kg	0.20	6020	05/25/12 16:18	PER	7440-48-4	
Copper	2.01	mg/kg	0.20	6020	05/25/12 16:18	PER	7440-50-8	
Lead	1.65	mg/kg	0.20	6020	05/25/12 16:18	PER	7439-92-1	
Manganese	92.8	mg/kg	0.20	6020	05/25/12 16:18	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0060	7471A	05/29/12 15:53	JRT	7439-97-6	
Nickel	2.73	mg/kg	0.20	6020	05/25/12 16:18	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/25/12 16:18	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/25/12 16:18	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/25/12 16:18	PER	7440-28-0	
Vanadium	1.35	mg/kg	0.20	6020	05/25/12 16:18	PER	7440-62-2	
Zinc	5.62	mg/kg	1.0	6020	05/25/12 16:18	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/21/12 18:34	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/21/12 18:34	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/21/12 18:34	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/21/12 18:34	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/21/12 18:34	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/21/12 18:34	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/21/12 18:34	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.06 (continued)

Sample Tag: SB-A8-LN168_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/24/12 22:53	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/24/12 22:53	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/24/12 22:53	PL	84-66-2	
Dimethyl phthalate	290	ug/kg	40	8270C	05/24/12 22:53	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/24/12 22:53	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/24/12 22:53	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.06 (continued)

Sample Tag: SB-A8-LN168_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/24/12 22:53	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 22:53	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.07
Sample Tag: SB-A8-LN168_9-13
Collected Date/Time: 05/18/2012 11:30
Matrix: Groundwater
COC Reference: 67637

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR
2	1L Amber	None	Yes	4.2	IR
1	125ml Plastic	HNO3	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/23/12 21:08	EMR		
Extraction, PCB	Completed			3510C	05/22/12 17:30	ADB		
Mercury Digestion	Completed			7471A	05/21/12 13:30	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 22:08	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 22:08	SLS	7440-38-2	
Barium, Dissolved	0.022	mg/L	0.010	6020	05/21/12 22:08	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 22:08	SLS	7440-41-7	
Boron, Dissolved	0.15	mg/L	0.04	6020	05/21/12 22:08	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 22:08	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 22:08	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 22:08	SLS	7440-48-4	
Copper, Dissolved	0.003	mg/L	0.002	6020	05/21/12 22:08	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 22:08	SLS	7439-92-1	
Manganese, Dissolved	0.294	mg/L	0.010	6020	05/21/12 22:08	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/21/12 16:07	JRT	7439-97-6	
Nickel, Dissolved	0.017	mg/L	0.010	6020	05/21/12 22:08	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 22:08	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 22:08	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 22:08	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 22:08	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 22:08	SLS	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List Dissolved (Column 1)**

PCB-1016	Not detected	ug/L	0.05	8082A	05/23/12 14:21	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/23/12 14:21	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/23/12 14:21	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/23/12 14:21	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/23/12 14:21	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/23/12 14:21	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/23/12 14:21	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/27/12 00:03	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/27/12 00:03	PL	118-74-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.07 (continued)

Sample Tag: SB-A8-LN168_9-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/27/12 18:18	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/27/12 18:18	PL	84-66-2	
Dimethyl phthalate	4	ug/L	2	8270C	05/27/12 18:18	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/27/12 18:18	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	88-75-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.07 (continued)

Sample Tag: SB-A8-LN168_9-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/27/12 18:18	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	05/29/12 13:53	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	05/29/12 21:22	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	05/29/12 21:22	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	05/29/12 21:22	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	05/29/12 21:22	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	05/29/12 21:22	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	10061-01-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.07 (continued)

Sample Tag: SB-A8-LN168_9-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Toluene	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	05/29/12 21:22	WAT		
o-Xylene	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	05/29/12 21:22	WAT	96-12-8	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.08
Sample Tag: SB-A8-LN168_9-13 MS
Collected Date/Time: 05/18/2012 11:30
Matrix: Groundwater
COC Reference: 67637

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR
2	1L Amber	None	Yes	4.2	IR
1	125ml Plastic	HNO3	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/23/12 21:08	EMR		
Extraction, PCB	Completed			3510C	05/22/12 17:30	ADB		
Mercury Digestion	Completed			7471A	05/21/12 13:30	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	0.104	mg/L	0.002	6020	05/21/12 22:12	SLS	7440-36-0	
Arsenic, Dissolved	0.115	mg/L	0.002	6020	05/21/12 22:12	SLS	7440-38-2	
Barium, Dissolved	0.122	mg/L	0.010	6020	05/21/12 22:12	SLS	7440-39-3	
Beryllium, Dissolved	0.0943	mg/L	0.001	6020	05/21/12 22:12	SLS	7440-41-7	
Boron, Dissolved	0.25	mg/L	0.04	6020	05/21/12 22:12	SLS	7440-42-8	
Cadmium, Dissolved	0.101	mg/L	0.001	6020	05/21/12 22:12	SLS	7440-43-9	
Chromium, Dissolved	0.110	mg/L	0.010	6020	05/21/12 22:12	SLS	7440-47-3	
Cobalt, Dissolved	0.119	mg/L	0.010	6020	05/21/12 22:12	SLS	7440-48-4	
Copper, Dissolved	0.107	mg/L	0.004	6020	05/21/12 22:12	SLS	7440-50-8	
Lead, Dissolved	0.091	mg/L	0.002	6020	05/21/12 22:12	SLS	7439-92-1	
Manganese, Dissolved	0.959	mg/L	0.010	6020	05/21/12 22:12	SLS	7439-96-5	
Mercury, Dissolved	0.0019	mg/L	0.0001	7471A	05/21/12 16:10	JRT	7439-97-6	
Nickel, Dissolved	0.140	mg/L	0.010	6020	05/21/12 22:12	SLS	7440-02-0	
Selenium, Dissolved	0.116	mg/L	0.002	6020	05/21/12 22:12	SLS	7782-49-2	
Silver, Dissolved	0.0963	mg/L	0.0002	6020	05/21/12 22:12	SLS	7440-22-4	
Thallium, Dissolved	0.0936	mg/L	0.002	6020	05/21/12 22:12	SLS	7440-28-0	
Vanadium, Dissolved	0.114	mg/L	0.002	6020	05/21/12 22:12	SLS	7440-62-2	
Zinc, Dissolved	0.125	mg/L	0.010	6020	05/21/12 22:12	SLS	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List Dissolved (Column 1)**

PCB-1016	0.5	ug/L	0.05	8082A	05/23/12 14:32	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/23/12 14:32	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/23/12 14:32	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/23/12 14:32	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/23/12 14:32	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/23/12 14:32	JANB	11097-69-1	
PCB-1260	0.5	ug/L	0.05	8082A	05/23/12 14:32	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	34	ug/L	1	8270C	05/27/12 18:47	PL	91-94-1	
Hexachlorobenzene	45	ug/L	1	8270C	05/27/12 18:47	PL	118-74-1	



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Revised Report

Lab Sample ID: S52566.08 (continued)

Sample Tag: SB-A8-LN168_9-13 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	42	ug/L	1	8270C	05/27/12 18:47	PL	83-32-9	1
Acenaphthylene	39	ug/L	1	8270C	05/27/12 18:47	PL	208-96-8	1
Acetophenone	40	ug/L	1	8270C	05/27/12 18:47	PL	98-86-2	1
Anthracene	41	ug/L	1	8270C	05/27/12 18:47	PL	120-12-7	1
Atrazine	39	ug/L	1	8270C	05/27/12 18:47	PL	1912-24-9	1
1,1'-Biphenyl	38	ug/L	1	8270C	05/27/12 18:47	PL	92-52-4	1
4-Bromophenyl phenyl ether	44	ug/L	1	8270C	05/27/12 18:47	PL	101-55-3	1
di-n-Butyl phthalate	43	ug/L	1	8270C	05/27/12 18:47	PL	84-74-2	1
Benzaldehyde	23	ug/L	1	8270C	05/27/12 18:47	PL	100-52-7	1
Benzo(a)anthracene	46	ug/L	1	8270C	05/27/12 18:47	PL	56-55-3	1
Benzo(a)pyrene	40	ug/L	1	8270C	05/27/12 18:47	PL	50-32-8	1
Benzo(b)fluoranthene	44	ug/L	1	8270C	05/27/12 18:47	PL	205-99-2	1
Benzo(ghi)perylene	41	ug/L	1	8270C	05/27/12 18:47	PL	191-24-2	1
Benzo(k)fluoranthene	46	ug/L	1	8270C	05/27/12 18:47	PL	207-08-9	1
Butyl benzyl phthalate	47	ug/L	1	8270C	05/27/12 18:47	PL	85-68-7	1
2-Chloronaphthalene	41	ug/L	1	8270C	05/27/12 18:47	PL	91-58-7	1
2-Chlorophenol	35	ug/L	1	8270C	05/27/12 18:47	PL	95-57-8	1
4-Chloro-3-methylphenol	44	ug/L	1	8270C	05/27/12 18:47	PL	59-50-7	1
4-Chloroaniline	33	ug/L	2	8270C	05/27/12 18:47	PL	106-47-8	1
4-Chlorophenyl phenyl ether	47	ug/L	1	8270C	05/27/12 18:47	PL	7005-72-3	1
Caprolactam	7	ug/L	1	8270C	05/27/12 18:47	PL	105-60-2	1
Carbazole	45	ug/L	1	8270C	05/27/12 18:47	PL	86-74-8	1
bis(2-Chloroethoxy)methane	36	ug/L	1	8270C	05/27/12 18:47	PL	111-91-1	1
bis(2-Chloroethyl)ether	34	ug/L	1	8270C	05/27/12 18:47	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	30	ug/L	1	8270C	05/27/12 18:47	PL	108-60-1	1
Chrysene	47	ug/L	1	8270C	05/27/12 18:47	PL	218-01-9	1
2,4-Dichlorophenol	39	ug/L	1	8270C	05/27/12 18:47	PL	120-83-2	1
2,4-Dimethylphenol	40	ug/L	1	8270C	05/27/12 18:47	PL	105-67-9	1
2,4-Dinitrophenol	46	ug/L	1	8270C	05/27/12 18:47	PL	51-28-5	1
2,4-Dinitrotoluene	46	ug/L	1	8270C	05/27/12 18:47	PL	121-14-2	1
2,6-Dinitrotoluene	52	ug/L	1	8270C	05/27/12 18:47	PL	606-20-2	1
4,6-Dinitro-2-methylphenol	37	ug/L	1	8270C	05/27/12 18:47	PL	534-52-1	1
Dibenzo(ah)anthracene	35	ug/L	1	8270C	05/27/12 18:47	PL	53-70-3	1
Dibenzofuran	43	ug/L	1	8270C	05/27/12 18:47	PL	132-64-9	1
Diethyl phthalate	48	ug/L	2	8270C	05/27/12 18:47	PL	84-66-2	1
Dimethyl phthalate	51	ug/L	2	8270C	05/27/12 18:47	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	48	ug/L	2	8270C	05/27/12 18:47	PL	117-81-7	1
Fluoranthene	46	ug/L	1	8270C	05/27/12 18:47	PL	206-44-0	1
Fluorene	46	ug/L	1	8270C	05/27/12 18:47	PL	86-73-7	1
Hexachlorobutadiene	35	ug/L	1	8270C	05/27/12 18:47	PL	87-68-3	1
Hexachlorocyclopentadiene	30	ug/L	1	8270C	05/27/12 18:47	PL	77-47-4	1
Hexachloroethane	31	ug/L	1	8270C	05/27/12 18:47	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	41	ug/L	1	8270C	05/27/12 18:47	PL	193-39-5	1
Isophorone	37	ug/L	1	8270C	05/27/12 18:47	PL	78-59-1	1
2-Methylnaphthalene	38	ug/L	1	8270C	05/27/12 18:47	PL	91-57-6	1
2-Methylphenol	36	ug/L	1	8270C	05/27/12 18:47	PL	95-48-7	1
3-, 4-Methylphenol	78	ug/L	1	8270C	05/27/12 18:47	PL	3/4-Cresol	1
2-Nitroaniline	43	ug/L	1	8270C	05/27/12 18:47	PL	88-74-4	1

1-Sample spiked at 0.052 mg/l



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.08 (continued)

Sample Tag: SB-A8-LN168_9-13 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2-Nitrophenol	36	ug/L	1	8270C	05/27/12 18:47	PL	88-75-5	1
3-Nitroaniline	38	ug/L	1	8270C	05/27/12 18:47	PL	99-09-2	1
4-Nitroaniline	45	ug/L	1	8270C	05/27/12 18:47	PL	100-01-6	1
4-Nitrophenol	39	ug/L	1	8270C	05/27/12 18:47	PL	100-02-7	1
N-Nitrosodi-n-propylamine	38	ug/L	1	8270C	05/27/12 18:47	PL	621-64-7	1
N-Nitrosodiphenylamine	33	ug/L	1	8270C	05/27/12 18:47	PL	86-30-6	1
Naphthalene	31	ug/L	1	8270C	05/27/12 18:47	PL	91-20-3	1
Nitrobenzene	34	ug/L	1	8270C	05/27/12 18:47	PL	98-95-3	1
di-n-Octyl phthalate	51	ug/L	1	8270C	05/27/12 18:47	PL	117-84-0	1
Pentachlorophenol	42	ug/L	1	8270C	05/27/12 18:47	PL	87-86-5	1
Phenanthrene	41	ug/L	1	8270C	05/27/12 18:47	PL	85-01-8	1
Phenol	27	ug/L	1	8270C	05/27/12 18:47	PL	108-95-2	1
Pyrene	45	ug/L	1	8270C	05/27/12 18:47	PL	129-00-0	1
2,4,5-Trichlorophenol	45	ug/L	1	8270C	05/27/12 18:47	PL	95-95-4	1
2,4,6-Trichlorophenol	42	ug/L	1	8270C	05/27/12 18:47	PL	88-06-2	1
Organics - Volatiles								
1,4-Dioxane	400	ug/L	100	8260B - SIM	06/01/12 12:39	JGH	123-91-1	2
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	49	ug/L	1	8260B	05/30/12 02:08	WAT	76-13-1	3
Acetone	38	ug/L	10	8260B	05/30/12 02:08	WAT	67-64-1	3
Carbon disulfide	44	ug/L	1	8260B	05/30/12 02:08	WAT	75-15-0	3
Methyl Acetate	49	ug/L	10	8260B	05/30/12 02:08	WAT	79-20-9	3
tert-Methyl butyl ether (MTBE)	53	ug/L	1	8260B	05/30/12 02:08	WAT	1634-04-4	3
2-Butanone (MEK)	46	ug/L	10	8260B	05/30/12 02:08	WAT	78-93-3	3
Dichlorodifluoromethane	41	ug/L	1	8260B	05/30/12 02:08	WAT	75-71-8	3
Chloromethane	48	ug/L	1	8260B	05/30/12 02:08	WAT	74-87-3	3
Vinyl chloride	42	ug/L	1	8260B	05/30/12 02:08	WAT	75-01-4	3
Bromomethane	49	ug/L	1	8260B	05/30/12 02:08	WAT	74-83-9	3
Chloroethane	49	ug/L	1	8260B	05/30/12 02:08	WAT	75-00-3	3
Trichlorofluoromethane	58	ug/L	1	8260B	05/30/12 02:08	WAT	75-69-4	3
1,1-Dichloroethene	49	ug/L	1	8260B	05/30/12 02:08	WAT	75-35-4	3
Methylene chloride	42	ug/L	1	8260B	05/30/12 02:08	WAT	75-09-2	3
trans-1,2-Dichloroethene	49	ug/L	1	8260B	05/30/12 02:08	WAT	156-60-5	3
1,1-Dichloroethane	49	ug/L	1	8260B	05/30/12 02:08	WAT	75-34-3	3
cis-1,2-Dichloroethene	46	ug/L	1	8260B	05/30/12 02:08	WAT	156-59-2	3
Chloroform	51	ug/L	1	8260B	05/30/12 02:08	WAT	67-66-3	3
1,1,1-Trichloroethane	55	ug/L	1	8260B	05/30/12 02:08	WAT	71-55-6	3
Cyclohexane	41	ug/L	1	8260B	05/30/12 02:08	WAT	110-82-7	3
4-Methyl-2-pentanone (MIBK)	64	ug/L	10	8260B	05/30/12 02:08	WAT	108-10-1	3
2-Hexanone	59	ug/L	10	8260B	05/30/12 02:08	WAT	591-78-6	3
Carbon tetrachloride	63	ug/L	1	8260B	05/30/12 02:08	WAT	56-23-5	3
Benzene	51	ug/L	1	8260B	05/30/12 02:08	WAT	71-43-2	3
1,2-Dichloroethane	63	ug/L	1	8260B	05/30/12 02:08	WAT	107-06-2	3
Trichloroethene	55	ug/L	1	8260B	05/30/12 02:08	WAT	79-01-6	3

1-Sample spiked at 0.052 mg/l

2-Spiked at 0.4mg/L

3-Spiked at 50ug/l



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.08 (continued)

Sample Tag: SB-A8-LN168_9-13 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
1,2-Dichloropropane	55	ug/L	1	8260B	05/30/12 02:08	WAT	78-87-5	1
Bromodichloromethane	61	ug/L	1	8260B	05/30/12 02:08	WAT	75-27-4	1
Methyl cyclohexane	53	ug/L	1	8260B	05/30/12 02:08	WAT	108-87-2	1
cis-1,3-Dichloropropene	54	ug/L	1	8260B	05/30/12 02:08	WAT	10061-01-5	1
Toluene	52	ug/L	1	8260B	05/30/12 02:08	WAT	108-88-3	1
trans-1,3-Dichloropropene	59	ug/L	1	8260B	05/30/12 02:08	WAT	10061-02-6	1
1,1,2-Trichloroethane	53	ug/L	1	8260B	05/30/12 02:08	WAT	79-00-5	1
Tetrachloroethene	48	ug/L	1	8260B	05/30/12 02:08	WAT	127-18-4	1
Dibromochloromethane	55	ug/L	1	8260B	05/30/12 02:08	WAT	124-48-1	1
1,2-Dibromoethane	50	ug/L	1	8260B	05/30/12 02:08	WAT	106-93-4	1
Chlorobenzene	47	ug/L	1	8260B	05/30/12 02:08	WAT	108-90-7	1
1,1,2,2-Tetrachloroethane	50	ug/L	1	8260B	05/30/12 02:08	WAT	79-34-5	1
Ethylbenzene	50	ug/L	1	8260B	05/30/12 02:08	WAT	100-41-4	1
p,m-Xylene	94	ug/L	2	8260B	05/30/12 02:08	WAT		1
o-Xylene	52	ug/L	1	8260B	05/30/12 02:08	WAT	95-47-6	1
Styrene	47	ug/L	1	8260B	05/30/12 02:08	WAT	100-42-5	1
Isopropylbenzene	51	ug/L	1	8260B	05/30/12 02:08	WAT	98-82-8	1
Bromoform	56	ug/L	1	8260B	05/30/12 02:08	WAT	75-25-2	1
1,3-Dichlorobenzene	49	ug/L	1	8260B	05/30/12 02:08	WAT	541-73-1	1
1,4-Dichlorobenzene	49	ug/L	1	8260B	05/30/12 02:08	WAT	106-46-7	1
1,2-Dichlorobenzene	51	ug/L	1	8260B	05/30/12 02:08	WAT	95-50-1	1
1,2,4-Trichlorobenzene	46	ug/L	1	8260B	05/30/12 02:08	WAT	120-82-1	1
1,2-Dibromo-3-chloropropane	53	ug/L	1	8260B	05/30/12 02:08	WAT	96-12-8	1

1-Spiked at 50ug/l



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.09
Sample Tag: SB-A8-LN168_9-13 MSD
Collected Date/Time: 05/18/2012 11:30
Matrix: Groundwater
COC Reference: 67637

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR
2	1L Amber	None	Yes	4.2	IR
1	125ml Plastic	HNO3	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/23/12 21:08	EMR		
Extraction, PCB	Completed			3510C	05/22/12 17:30	ADB		
Mercury Digestion	Completed			7471A	05/21/12 13:30	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	0.105	mg/L	0.002	6020	05/21/12 22:16	SLS	7440-36-0	
Arsenic, Dissolved	0.113	mg/L	0.002	6020	05/21/12 22:16	SLS	7440-38-2	
Barium, Dissolved	0.124	mg/L	0.010	6020	05/21/12 22:16	SLS	7440-39-3	
Beryllium, Dissolved	0.0937	mg/L	0.001	6020	05/21/12 22:16	SLS	7440-41-7	
Boron, Dissolved	0.25	mg/L	0.04	6020	05/21/12 22:16	SLS	7440-42-8	
Cadmium, Dissolved	0.100	mg/L	0.001	6020	05/21/12 22:16	SLS	7440-43-9	
Chromium, Dissolved	0.112	mg/L	0.010	6020	05/21/12 22:16	SLS	7440-47-3	
Cobalt, Dissolved	0.120	mg/L	0.010	6020	05/21/12 22:16	SLS	7440-48-4	
Copper, Dissolved	0.109	mg/L	0.004	6020	05/21/12 22:16	SLS	7440-50-8	
Lead, Dissolved	0.090	mg/L	0.002	6020	05/21/12 22:16	SLS	7439-92-1	
Manganese, Dissolved	0.855	mg/L	0.010	6020	05/21/12 22:16	SLS	7439-96-5	
Mercury, Dissolved	0.0019	mg/L	0.0001	7471A	05/21/12 16:12	JRT	7439-97-6	
Nickel, Dissolved	0.136	mg/L	0.010	6020	05/21/12 22:16	SLS	7440-02-0	
Selenium, Dissolved	0.118	mg/L	0.002	6020	05/21/12 22:16	SLS	7782-49-2	
Silver, Dissolved	0.0968	mg/L	0.0002	6020	05/21/12 22:16	SLS	7440-22-4	
Thallium, Dissolved	0.0938	mg/L	0.002	6020	05/21/12 22:16	SLS	7440-28-0	
Vanadium, Dissolved	0.115	mg/L	0.002	6020	05/21/12 22:16	SLS	7440-62-2	
Zinc, Dissolved	0.123	mg/L	0.010	6020	05/21/12 22:16	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	0.5	ug/L	0.05	8082A	05/23/12 14:44	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/23/12 14:44	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/23/12 14:44	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/23/12 14:44	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/23/12 14:44	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/23/12 14:44	JANB	11097-69-1	
PCB-1260	0.5	ug/L	0.05	8082A	05/23/12 14:44	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	38	ug/L	1	8270C	05/27/12 19:16	PL	91-94-1	
Hexachlorobenzene	52	ug/L	1	8270C	05/27/12 19:16	PL	118-74-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.09 (continued)

Sample Tag: SB-A8-LN168_9-13 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	48	ug/L	1	8270C	05/27/12 19:16	PL	83-32-9	1
Acenaphthylene	46	ug/L	1	8270C	05/27/12 19:16	PL	208-96-8	1
Acetophenone	48	ug/L	1	8270C	05/27/12 19:16	PL	98-86-2	1
Anthracene	47	ug/L	1	8270C	05/27/12 19:16	PL	120-12-7	1
Atrazine	46	ug/L	1	8270C	05/27/12 19:16	PL	1912-24-9	1
1,1'-Biphenyl	45	ug/L	1	8270C	05/27/12 19:16	PL	92-52-4	1
4-Bromophenyl phenyl ether	50	ug/L	1	8270C	05/27/12 19:16	PL	101-55-3	1
di-n-Butyl phthalate	49	ug/L	1	8270C	05/27/12 19:16	PL	84-74-2	1
Benzaldehyde	28	ug/L	1	8270C	05/27/12 19:16	PL	100-52-7	1
Benzo(a)anthracene	53	ug/L	1	8270C	05/27/12 19:16	PL	56-55-3	1
Benzo(a)pyrene	46	ug/L	1	8270C	05/27/12 19:16	PL	50-32-8	1
Benzo(b)fluoranthene	52	ug/L	1	8270C	05/27/12 19:16	PL	205-99-2	1
Benzo(ghi)perylene	47	ug/L	1	8270C	05/27/12 19:16	PL	191-24-2	1
Benzo(k)fluoranthene	53	ug/L	1	8270C	05/27/12 19:16	PL	207-08-9	1
Butyl benzyl phthalate	55	ug/L	1	8270C	05/27/12 19:16	PL	85-68-7	1
2-Chloronaphthalene	48	ug/L	1	8270C	05/27/12 19:16	PL	91-58-7	1
2-Chlorophenol	43	ug/L	1	8270C	05/27/12 19:16	PL	95-57-8	1
4-Chloro-3-methylphenol	51	ug/L	1	8270C	05/27/12 19:16	PL	59-50-7	1
4-Chloroaniline	38	ug/L	2	8270C	05/27/12 19:16	PL	106-47-8	1
4-Chlorophenyl phenyl ether	55	ug/L	1	8270C	05/27/12 19:16	PL	7005-72-3	1
Caprolactam	9	ug/L	1	8270C	05/27/12 19:16	PL	105-60-2	1
Carbazole	51	ug/L	1	8270C	05/27/12 19:16	PL	86-74-8	1
bis(2-Chloroethoxy)methane	42	ug/L	1	8270C	05/27/12 19:16	PL	111-91-1	1
bis(2-Chloroethyl)ether	41	ug/L	1	8270C	05/27/12 19:16	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	35	ug/L	1	8270C	05/27/12 19:16	PL	108-60-1	1
Chrysene	53	ug/L	1	8270C	05/27/12 19:16	PL	218-01-9	1
2,4-Dichlorophenol	47	ug/L	1	8270C	05/27/12 19:16	PL	120-83-2	1
2,4-Dimethylphenol	47	ug/L	1	8270C	05/27/12 19:16	PL	105-67-9	1
2,4-Dinitrophenol	53	ug/L	1	8270C	05/27/12 19:16	PL	51-28-5	1
2,4-Dinitrotoluene	53	ug/L	1	8270C	05/27/12 19:16	PL	121-14-2	1
2,6-Dinitrotoluene	60	ug/L	1	8270C	05/27/12 19:16	PL	606-20-2	1
4,6-Dinitro-2-methylphenol	43	ug/L	1	8270C	05/27/12 19:16	PL	534-52-1	1
Dibenzo(ah)anthracene	40	ug/L	1	8270C	05/27/12 19:16	PL	53-70-3	1
Dibenzofuran	50	ug/L	1	8270C	05/27/12 19:16	PL	132-64-9	1
Diethyl phthalate	55	ug/L	2	8270C	05/27/12 19:16	PL	84-66-2	1
Dimethyl phthalate	55	ug/L	2	8270C	05/27/12 19:16	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	55	ug/L	2	8270C	05/27/12 19:16	PL	117-81-7	1
Fluoranthene	53	ug/L	1	8270C	05/27/12 19:16	PL	206-44-0	1
Fluorene	54	ug/L	1	8270C	05/27/12 19:16	PL	86-73-7	1
Hexachlorobutadiene	40	ug/L	1	8270C	05/27/12 19:16	PL	87-68-3	1
Hexachlorocyclopentadiene	34	ug/L	1	8270C	05/27/12 19:16	PL	77-47-4	1
Hexachloroethane	35	ug/L	1	8270C	05/27/12 19:16	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	47	ug/L	1	8270C	05/27/12 19:16	PL	193-39-5	1
Isophorone	43	ug/L	1	8270C	05/27/12 19:16	PL	78-59-1	1
2-Methylnaphthalene	44	ug/L	1	8270C	05/27/12 19:16	PL	91-57-6	1
2-Methylphenol	44	ug/L	1	8270C	05/27/12 19:16	PL	95-48-7	1
3-, 4-Methylphenol	97	ug/L	1	8270C	05/27/12 19:16	PL	3/4-Cresol	1
2-Nitroaniline	49	ug/L	1	8270C	05/27/12 19:16	PL	88-74-4	1

1-Sample spiked at 0.052 mg/l



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.09 (continued)

Sample Tag: SB-A8-LN168_9-13 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2-Nitrophenol	42	ug/L	1	8270C	05/27/12 19:16	PL	88-75-5	1
3-Nitroaniline	44	ug/L	1	8270C	05/27/12 19:16	PL	99-09-2	1
4-Nitroaniline	53	ug/L	1	8270C	05/27/12 19:16	PL	100-01-6	1
4-Nitrophenol	46	ug/L	1	8270C	05/27/12 19:16	PL	100-02-7	1
N-Nitrosodi-n-propylamine	46	ug/L	1	8270C	05/27/12 19:16	PL	621-64-7	1
N-Nitrosodiphenylamine	38	ug/L	1	8270C	05/27/12 19:16	PL	86-30-6	1
Naphthalene	37	ug/L	1	8270C	05/27/12 19:16	PL	91-20-3	1
Nitrobenzene	41	ug/L	1	8270C	05/27/12 19:16	PL	98-95-3	1
di-n-Octyl phthalate	58	ug/L	1	8270C	05/27/12 19:16	PL	117-84-0	1
Pentachlorophenol	47	ug/L	1	8270C	05/27/12 19:16	PL	87-86-5	1
Phenanthrene	47	ug/L	1	8270C	05/27/12 19:16	PL	85-01-8	1
Phenol	35	ug/L	1	8270C	05/27/12 19:16	PL	108-95-2	1
Pyrene	52	ug/L	1	8270C	05/27/12 19:16	PL	129-00-0	1
2,4,5-Trichlorophenol	52	ug/L	1	8270C	05/27/12 19:16	PL	95-95-4	1
2,4,6-Trichlorophenol	49	ug/L	1	8270C	05/27/12 19:16	PL	88-06-2	1
Organics - Volatiles								
1,4-Dioxane	400	ug/L	100	8260B - SIM	06/01/12 12:12	JGH	123-91-1	2
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	50	ug/L	1	8260B	05/30/12 02:30	WAT	76-13-1	3
Acetone	37	ug/L	10	8260B	05/30/12 02:30	WAT	67-64-1	3
Carbon disulfide	44	ug/L	1	8260B	05/30/12 02:30	WAT	75-15-0	3
Methyl Acetate	52	ug/L	10	8260B	05/30/12 02:30	WAT	79-20-9	3
tert-Methyl butyl ether (MTBE)	54	ug/L	1	8260B	05/30/12 02:30	WAT	1634-04-4	3
2-Butanone (MEK)	47	ug/L	10	8260B	05/30/12 02:30	WAT	78-93-3	3
Dichlorodifluoromethane	39	ug/L	1	8260B	05/30/12 02:30	WAT	75-71-8	3
Chloromethane	47	ug/L	1	8260B	05/30/12 02:30	WAT	74-87-3	3
Vinyl chloride	42	ug/L	1	8260B	05/30/12 02:30	WAT	75-01-4	3
Bromomethane	50	ug/L	1	8260B	05/30/12 02:30	WAT	74-83-9	3
Chloroethane	50	ug/L	1	8260B	05/30/12 02:30	WAT	75-00-3	3
Trichlorofluoromethane	56	ug/L	1	8260B	05/30/12 02:30	WAT	75-69-4	3
1,1-Dichloroethene	49	ug/L	1	8260B	05/30/12 02:30	WAT	75-35-4	3
Methylene chloride	44	ug/L	1	8260B	05/30/12 02:30	WAT	75-09-2	3
trans-1,2-Dichloroethene	49	ug/L	1	8260B	05/30/12 02:30	WAT	156-60-5	3
1,1-Dichloroethane	49	ug/L	1	8260B	05/30/12 02:30	WAT	75-34-3	3
cis-1,2-Dichloroethene	46	ug/L	1	8260B	05/30/12 02:30	WAT	156-59-2	3
Chloroform	51	ug/L	1	8260B	05/30/12 02:30	WAT	67-66-3	3
1,1,1-Trichloroethane	56	ug/L	1	8260B	05/30/12 02:30	WAT	71-55-6	3
Cyclohexane	41	ug/L	1	8260B	05/30/12 02:30	WAT	110-82-7	3
4-Methyl-2-pentanone (MIBK)	65	ug/L	10	8260B	05/30/12 02:30	WAT	108-10-1	3
2-Hexanone	61	ug/L	10	8260B	05/30/12 02:30	WAT	591-78-6	3
Carbon tetrachloride	62	ug/L	1	8260B	05/30/12 02:30	WAT	56-23-5	3
Benzene	51	ug/L	1	8260B	05/30/12 02:30	WAT	71-43-2	3
1,2-Dichloroethane	62	ug/L	1	8260B	05/30/12 02:30	WAT	107-06-2	3
Trichloroethene	54	ug/L	1	8260B	05/30/12 02:30	WAT	79-01-6	3

1-Sample spiked at 0.052 mg/l

2-Spiked at 0.4mg/L

3-Spiked at 50ug/l



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.09 (continued)

Sample Tag: SB-A8-LN168_9-13 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
1,2-Dichloropropane	54	ug/L	1	8260B	05/30/12 02:30	WAT	78-87-5	1
Bromodichloromethane	61	ug/L	1	8260B	05/30/12 02:30	WAT	75-27-4	1
Methyl cyclohexane	53	ug/L	1	8260B	05/30/12 02:30	WAT	108-87-2	1
cis-1,3-Dichloropropene	55	ug/L	1	8260B	05/30/12 02:30	WAT	10061-01-5	1
Toluene	53	ug/L	1	8260B	05/30/12 02:30	WAT	108-88-3	1
trans-1,3-Dichloropropene	61	ug/L	1	8260B	05/30/12 02:30	WAT	10061-02-6	1
1,1,2-Trichloroethane	53	ug/L	1	8260B	05/30/12 02:30	WAT	79-00-5	1
Tetrachloroethene	49	ug/L	1	8260B	05/30/12 02:30	WAT	127-18-4	1
Dibromochloromethane	57	ug/L	1	8260B	05/30/12 02:30	WAT	124-48-1	1
1,2-Dibromoethane	51	ug/L	1	8260B	05/30/12 02:30	WAT	106-93-4	1
Chlorobenzene	48	ug/L	1	8260B	05/30/12 02:30	WAT	108-90-7	1
1,1,2,2-Tetrachloroethane	50	ug/L	1	8260B	05/30/12 02:30	WAT	79-34-5	1
Ethylbenzene	52	ug/L	1	8260B	05/30/12 02:30	WAT	100-41-4	1
p,m-Xylene	98	ug/L	2	8260B	05/30/12 02:30	WAT		1
o-Xylene	54	ug/L	1	8260B	05/30/12 02:30	WAT	95-47-6	1
Styrene	49	ug/L	1	8260B	05/30/12 02:30	WAT	100-42-5	1
Isopropylbenzene	52	ug/L	1	8260B	05/30/12 02:30	WAT	98-82-8	1
Bromoform	59	ug/L	1	8260B	05/30/12 02:30	WAT	75-25-2	1
1,3-Dichlorobenzene	50	ug/L	1	8260B	05/30/12 02:30	WAT	541-73-1	1
1,4-Dichlorobenzene	50	ug/L	1	8260B	05/30/12 02:30	WAT	106-46-7	1
1,2-Dichlorobenzene	51	ug/L	1	8260B	05/30/12 02:30	WAT	95-50-1	1
1,2,4-Trichlorobenzene	48	ug/L	1	8260B	05/30/12 02:30	WAT	120-82-1	1
1,2-Dibromo-3-chloropropane	50	ug/L	1	8260B	05/30/12 02:30	WAT	96-12-8	1

1-Spiked at 50ug/l



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.10
Sample Tag: SB-A8-LN168_18-19
Collected Date/Time: 05/18/2012 13:18
Matrix: Soil
COC Reference: 67637

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/22/12 23:19	EMR		
Extraction, PCB	Completed			3550B	05/21/12 10:33	CCM		
Mercury Digestion	Completed			7471A	05/29/12 13:10	JRH		
Metal Digestion	Completed			3050B	05/29/12 10:00	PER		

Inorganics

Total Solids	84	%	1	Std M 2540 B	05/21/12 12:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/29/12 13:33	PER	7440-36-0	
Arsenic	0.89	mg/kg	0.10	6020	05/29/12 13:33	PER	7440-38-2	
Barium	3.58	mg/kg	1.0	6020	05/29/12 13:33	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/29/12 13:33	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/29/12 13:33	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/29/12 13:33	PER	7440-43-9	
Chromium	0.58	mg/kg	0.20	6020	05/29/12 13:33	PER	7440-47-3	
Cobalt	0.40	mg/kg	0.20	6020	05/29/12 13:33	PER	7440-48-4	
Copper	1.43	mg/kg	0.20	6020	05/29/12 13:33	PER	7440-50-8	
Lead	0.94	mg/kg	0.20	6020	05/29/12 13:33	PER	7439-92-1	
Manganese	65.4	mg/kg	0.20	6020	05/29/12 13:33	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0058	7471A	05/29/12 15:42	JRT	7439-97-6	
Nickel	1.55	mg/kg	0.20	6020	05/29/12 13:33	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/29/12 13:33	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/29/12 13:33	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/29/12 13:33	PER	7440-28-0	
Vanadium	0.94	mg/kg	0.20	6020	05/29/12 13:33	PER	7440-62-2	
Zinc	4.81	mg/kg	1.0	6020	05/29/12 13:33	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/21/12 18:45	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/21/12 18:45	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/21/12 18:45	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/21/12 18:45	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/21/12 18:45	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/21/12 18:45	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/21/12 18:45	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.10 (continued)

Sample Tag: SB-A8-LN168_18-19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/24/12 23:22	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/24/12 23:22	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/24/12 23:22	PL	84-66-2	
Dimethyl phthalate	320	ug/kg	40	8270C	05/24/12 23:22	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/24/12 23:22	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/24/12 23:22	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.10 (continued)

Sample Tag: SB-A8-LN168_18-19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/24/12 23:22	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/24/12 23:22	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.11
Sample Tag: SB-A8-LP166_7-8
Collected Date/Time: 05/18/2012 13:50
Matrix: Soil
COC Reference: 67637

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/22/12 23:19	EMR		
Extraction, PCB	Completed			3550B	05/24/12 10:00	CCM		
Mercury Digestion	Completed			7471A	05/29/12 13:10	JRH		
Metal Digestion	Completed			3050B	05/29/12 10:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/22/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/29/12 13:42	PER	7440-36-0	
Arsenic	2.24	mg/kg	0.10	6020	05/29/12 13:42	PER	7440-38-2	
Barium	94.0	mg/kg	1.0	6020	05/29/12 13:42	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/29/12 13:42	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/29/12 13:42	PER	7440-42-8	
Cadmium	0.14	mg/kg	0.10	6020	05/29/12 13:42	PER	7440-43-9	
Chromium	9.82	mg/kg	0.20	6020	05/29/12 13:42	PER	7440-47-3	
Cobalt	1.79	mg/kg	0.20	6020	05/29/12 13:42	PER	7440-48-4	
Copper	9.69	mg/kg	0.20	6020	05/29/12 13:42	PER	7440-50-8	
Lead	5.64	mg/kg	0.20	6020	05/29/12 13:42	PER	7439-92-1	
Manganese	393	mg/kg	0.20	6020	05/29/12 13:42	PER	7439-96-5	
Mercury	0.0092	mg/kg	0.0059	7471A	05/29/12 15:44	JRT	7439-97-6	
Nickel	6.05	mg/kg	0.20	6020	05/29/12 13:42	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/29/12 13:42	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/29/12 13:42	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/29/12 13:42	PER	7440-28-0	
Vanadium	4.38	mg/kg	0.20	6020	05/29/12 13:42	PER	7440-62-2	
Zinc	32.7	mg/kg	1.0	6020	05/29/12 13:42	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/25/12 15:23	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/25/12 15:23	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/25/12 15:23	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/25/12 15:23	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/25/12 15:23	JANB	12672-29-6	
PCB-1254	10	ug/kg	3	8082A	05/25/12 15:23	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/25/12 15:23	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	208-96-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.11 (continued)

Sample Tag: SB-A8-LP166_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	98-86-2	X
Anthracene	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	120-12-7	X
Atrazine	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	05/24/12 23:52	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	105-60-2	X
Carbazole	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	108-60-1	X
Chrysene	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	05/24/12 23:52	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	05/24/12 23:52	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	05/24/12 23:52	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	206-44-0	X
Fluorene	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	193-39-5	X
Isophorone	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	05/24/12 23:52	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	88-74-4	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.11 (continued)

Sample Tag: SB-A8-LP166_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	05/24/12 23:52	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	85-01-8	X
Phenol	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	108-95-2	X
Pyrene	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	1,000	8270C	05/24/12 23:52	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.12
Sample Tag: SB-A8-LP166_1-2
Collected Date/Time: 05/18/2012 13:52
Matrix: Soil
COC Reference: 67637

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/23/12 09:00	CCM		
Extraction, PCB	Completed			3550B	05/24/12 10:00	CCM		
Mercury Digestion	Completed			7471A	05/29/12 13:10	JRH		
Metal Digestion	Completed			3050B	05/29/12 10:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/21/12 12:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/29/12 13:44	PER	7440-36-0	
Arsenic	1.11	mg/kg	0.10	6020	05/29/12 13:44	PER	7440-38-2	
Barium	20.3	mg/kg	1.0	6020	05/29/12 13:44	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/29/12 13:44	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	05/29/12 13:44	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/29/12 13:44	PER	7440-43-9	
Chromium	4.14	mg/kg	0.21	6020	05/29/12 13:44	PER	7440-47-3	
Cobalt	121	mg/kg	0.21	6020	05/29/12 13:44	PER	7440-48-4	
Copper	5.17	mg/kg	0.21	6020	05/29/12 13:44	PER	7440-50-8	
Lead	3.60	mg/kg	0.21	6020	05/29/12 13:44	PER	7439-92-1	
Manganese	129	mg/kg	0.21	6020	05/29/12 13:44	PER	7439-96-5	
Mercury	0.0078	mg/kg	0.0057	7471A	05/29/12 15:46	JRT	7439-97-6	
Nickel	4.19	mg/kg	0.21	6020	05/29/12 13:44	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/29/12 13:44	PER	7782-49-2	
Silver	12.1	mg/kg	0.10	6020	05/29/12 13:44	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/29/12 13:44	PER	7440-28-0	
Vanadium	3.29	mg/kg	0.21	6020	05/29/12 13:44	PER	7440-62-2	
Zinc	8.97	mg/kg	1.0	6020	05/29/12 13:44	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/24/12 19:48	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/24/12 19:48	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/24/12 19:48	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/24/12 19:48	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/24/12 19:48	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/24/12 19:48	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/24/12 19:48	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.12 (continued)

Sample Tag: SB-A8-LP166_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/26/12 22:08	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	100-52-7	
Benzo(a)anthracene	180	ug/kg	40	8270C	05/26/12 22:08	PL	56-55-3	
Benzo(a)pyrene	180	ug/kg	40	8270C	05/26/12 22:08	PL	50-32-8	
Benzo(b)fluoranthene	350	ug/kg	40	8270C	05/26/12 22:08	PL	205-99-2	p
Benzo(ghi)perylene	130	ug/kg	40	8270C	05/26/12 22:08	PL	191-24-2	
Benzo(k)fluoranthene	360	ug/kg	40	8270C	05/26/12 22:08	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	108-60-1	
Chrysene	220	ug/kg	40	8270C	05/26/12 22:08	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/26/12 22:08	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/26/12 22:08	PL	84-66-2	
Dimethyl phthalate	60	ug/kg	40	8270C	05/26/12 22:08	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/26/12 22:08	PL	117-81-7	
Fluoranthene	440	ug/kg	40	8270C	05/26/12 22:08	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	110	ug/kg	40	8270C	05/26/12 22:08	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/26/12 22:08	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	88-74-4	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.12 (continued)

Sample Tag: SB-A8-LP166_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/26/12 22:08	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	87-86-5	
Phenanthrene	180	ug/kg	40	8270C	05/26/12 22:08	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	108-95-2	
Pyrene	370	ug/kg	40	8270C	05/26/12 22:08	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/26/12 22:08	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.13
Sample Tag: SB-A8-LP166_3.5-7.5
Collected Date/Time: 05/18/2012 14:10
Matrix: Groundwater
COC Reference: 67637

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR
2	1L Amber	None	Yes	4.2	IR
1	125ml Plastic	HNO3	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/23/12 21:08	EMR		
Extraction, PCB	Completed			3510C	05/22/12 17:30	ADB		
Mercury Digestion	Completed			7471A	05/21/12 13:30	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:59	SLS	7440-36-0	
Arsenic, Dissolved	0.021	mg/L	0.002	6020	05/21/12 21:59	SLS	7440-38-2	
Barium, Dissolved	0.236	mg/L	0.010	6020	05/21/12 21:59	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 21:59	SLS	7440-41-7	
Boron, Dissolved	1.52	mg/L	0.04	6020	05/21/12 21:59	SLS	7440-42-8	
Cadmium, Dissolved	0.003	mg/L	0.001	6020	05/21/12 21:59	SLS	7440-43-9	
Chromium, Dissolved	0.043	mg/L	0.010	6020	05/21/12 21:59	SLS	7440-47-3	
Cobalt, Dissolved	0.025	mg/L	0.010	6020	05/21/12 21:59	SLS	7440-48-4	
Copper, Dissolved	0.084	mg/L	0.002	6020	05/21/12 21:59	SLS	7440-50-8	
Lead, Dissolved	0.063	mg/L	0.002	6020	05/21/12 21:59	SLS	7439-92-1	
Manganese, Dissolved	0.922	mg/L	0.010	6020	05/21/12 21:59	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/21/12 16:03	JRT	7439-97-6	
Nickel, Dissolved	0.038	mg/L	0.010	6020	05/21/12 21:59	SLS	7440-02-0	
Selenium, Dissolved	0.008	mg/L	0.002	6020	05/21/12 21:59	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 21:59	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 21:59	SLS	7440-28-0	
Vanadium, Dissolved	0.075	mg/L	0.002	6020	05/21/12 21:59	SLS	7440-62-2	
Zinc, Dissolved	0.150	mg/L	0.010	6020	05/21/12 21:59	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/23/12 15:10	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/23/12 15:10	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/23/12 15:10	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/23/12 15:10	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/23/12 15:10	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/23/12 15:10	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/23/12 15:10	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.06	8270C	05/27/12 00:32	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.06	8270C	05/27/12 00:32	PL	118-74-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.13 (continued)

Sample Tag: SB-A8-LP166_3.5-7.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/27/12 19:46	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	120-83-2	
2,4-Dimethylphenol	68	ug/L	1	8270C	05/27/12 19:46	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/27/12 19:46	PL	84-66-2	
Dimethyl phthalate	10	ug/L	2	8270C	05/27/12 19:46	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/27/12 19:46	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	91-57-6	
2-Methylphenol	2	ug/L	1	8270C	05/27/12 19:46	PL	95-48-7	
3-, 4-Methylphenol	44	ug/L	1	8270C	05/27/12 19:46	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	88-75-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.13 (continued)

Sample Tag: SB-A8-LP166_3.5-7.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	85-01-8	
Phenol	11	ug/L	1	8270C	05/27/12 19:46	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/27/12 19:46	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	100	8260B	06/01/12 13:23	JGH	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	05/29/12 21:45	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	05/29/12 21:45	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	05/29/12 21:45	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	05/29/12 21:45	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	05/29/12 21:45	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	10061-01-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.13 (continued)

Sample Tag: SB-A8-LP166_3.5-7.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Toluene	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	05/29/12 21:45	WAT		
o-Xylene	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	05/29/12 21:45	WAT	96-12-8	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.14
Sample Tag: SB-A8-LP166_17-18
Collected Date/Time: 05/18/2012 15:35
Matrix: Soil
COC Reference: 67637

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/23/12 09:00	CCM		
Extraction, PCB	Completed			3550B	05/24/12 10:00	CCM		
Mercury Digestion	Completed			7471A	05/29/12 13:10	JRH		
Metal Digestion	Completed			3050B	05/29/12 10:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/21/12 12:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/29/12 13:46	PER	7440-36-0	
Arsenic	1.88	mg/kg	0.10	6020	05/29/12 13:46	PER	7440-38-2	
Barium	3.98	mg/kg	1.0	6020	05/29/12 13:46	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/29/12 13:46	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/29/12 13:46	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/29/12 13:46	PER	7440-43-9	
Chromium	1.34	mg/kg	0.20	6020	05/29/12 13:46	PER	7440-47-3	
Cobalt	0.98	mg/kg	0.20	6020	05/29/12 13:46	PER	7440-48-4	
Copper	2.92	mg/kg	0.20	6020	05/29/12 13:46	PER	7440-50-8	
Lead	1.53	mg/kg	0.20	6020	05/29/12 13:46	PER	7439-92-1	
Manganese	91.9	mg/kg	0.20	6020	05/29/12 13:46	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0057	7471A	05/29/12 15:49	JRT	7439-97-6	
Nickel	2.68	mg/kg	0.20	6020	05/29/12 13:46	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/29/12 13:46	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/29/12 13:46	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/29/12 13:46	PER	7440-28-0	
Vanadium	1.23	mg/kg	0.20	6020	05/29/12 13:46	PER	7440-62-2	
Zinc	15.5	mg/kg	1.0	6020	05/29/12 13:46	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/24/12 19:58	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/24/12 19:58	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/24/12 19:58	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/24/12 19:58	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/24/12 19:58	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/24/12 19:58	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/24/12 19:58	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.14 (continued)

Sample Tag: SB-A8-LP166_17-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 16:03	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/27/12 16:03	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 16:03	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/27/12 16:03	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/27/12 16:03	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.14 (continued)

Sample Tag: SB-A8-LP166_17-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 16:03	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 16:03	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.15
Sample Tag: SB-A8-DUP39
Collected Date/Time: 05/18/2012 00:01
Matrix: Soil
COC Reference: 68865

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/23/12 09:00	CCM		
Extraction, PCB	Completed			3550B	05/24/12 10:00	CCM		
Mercury Digestion	Completed			7471A	05/29/12 13:10	JRH		
Metal Digestion	Completed			3050B	05/29/12 10:00	PER		

Inorganics

Total Solids	80	%	1	Std M 2540 B	05/21/12 12:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/29/12 13:49	PER	7440-36-0	
Arsenic	1.72	mg/kg	0.10	6020	05/29/12 13:49	PER	7440-38-2	
Barium	3.67	mg/kg	1.0	6020	05/29/12 13:49	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/29/12 13:49	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/29/12 13:49	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/29/12 13:49	PER	7440-43-9	
Chromium	1.31	mg/kg	0.20	6020	05/29/12 13:49	PER	7440-47-3	
Cobalt	1.06	mg/kg	0.20	6020	05/29/12 13:49	PER	7440-48-4	
Copper	2.51	mg/kg	0.20	6020	05/29/12 13:49	PER	7440-50-8	
Lead	1.60	mg/kg	0.20	6020	05/29/12 13:49	PER	7439-92-1	
Manganese	91.0	mg/kg	0.20	6020	05/29/12 13:49	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0062	7471A	05/29/12 15:51	JRT	7439-97-6	
Nickel	2.94	mg/kg	0.20	6020	05/29/12 13:49	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/29/12 13:49	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/29/12 13:49	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/29/12 13:49	PER	7440-28-0	
Vanadium	1.29	mg/kg	0.20	6020	05/29/12 13:49	PER	7440-62-2	
Zinc	15.1	mg/kg	1.0	6020	05/29/12 13:49	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/24/12 20:09	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/24/12 20:09	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/24/12 20:09	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/24/12 20:09	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/24/12 20:09	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/24/12 20:09	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/24/12 20:09	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.15 (continued)

Sample Tag: SB-A8-DUP39

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/27/12 16:37	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/27/12 16:37	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/27/12 16:37	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/27/12 16:37	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/27/12 16:37	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.15 (continued)

Sample Tag: SB-A8-DUP39

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/27/12 16:37	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 16:37	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.16
Sample Tag: SB-A8-LP166_16-20
Collected Date/Time: 05/18/2012 15:55
Matrix: Groundwater
COC Reference: 68865

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR
2	1L Amber	None	Yes	4.2	IR
1	125ml Plastic	HNO3	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/23/12 21:08	EMR		
Extraction, PCB	Completed			3510C	05/22/12 17:30	ADB		
Mercury Digestion	Completed			7471A	05/21/12 13:30	JRH		
Metal Digestion	Completed			3015A	05/21/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 22:03	SLS	7440-36-0	
Arsenic, Dissolved	0.007	mg/L	0.002	6020	05/21/12 22:03	SLS	7440-38-2	
Barium, Dissolved	0.036	mg/L	0.010	6020	05/21/12 22:03	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/21/12 22:03	SLS	7440-41-7	
Boron, Dissolved	0.75	mg/L	0.04	6020	05/21/12 22:03	SLS	7440-42-8	
Cadmium, Dissolved	0.001	mg/L	0.001	6020	05/21/12 22:03	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 22:03	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 22:03	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 22:03	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 22:03	SLS	7439-92-1	
Manganese, Dissolved	0.106	mg/L	0.010	6020	05/21/12 22:03	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/21/12 16:05	JRT	7439-97-6	
Nickel, Dissolved	0.022	mg/L	0.010	6020	05/21/12 22:03	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 22:03	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/21/12 22:03	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 22:03	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/21/12 22:03	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/21/12 22:03	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/23/12 15:20	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/23/12 15:20	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/23/12 15:20	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/23/12 15:20	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/23/12 15:20	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/23/12 15:20	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/23/12 15:20	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.06	8270C	05/27/12 01:01	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.06	8270C	05/27/12 01:01	PL	118-74-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.16 (continued)

Sample Tag: SB-A8-LP166_16-20

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/27/12 20:15	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/27/12 20:15	PL	84-66-2	
Dimethyl phthalate	4	ug/L	2	8270C	05/27/12 20:15	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/27/12 20:15	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	95-48-7	
3-, 4-Methylphenol	1	ug/L	1	8270C	05/27/12 20:15	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	88-75-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.16 (continued)

Sample Tag: SB-A8-LP166_16-20

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/27/12 20:15	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	100	8260B	06/01/12 13:44	JGH	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	05/29/12 22:07	WAT	67-64-1	
Carbon disulfide	2	ug/L	1	8260B	05/29/12 22:07	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	05/29/12 22:07	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	05/29/12 22:07	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	05/29/12 22:07	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	05/29/12 22:07	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	10061-01-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.16 (continued)

Sample Tag: SB-A8-LP166_16-20

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Toluene	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	05/29/12 22:07	WAT		
o-Xylene	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	05/29/12 22:07	WAT	96-12-8	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.17
Sample Tag: Trip Blank
Collected Date/Time: 05/18/2012 00:01
Matrix: Liquid
COC Reference: 68865

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	100	8260B	06/01/12 13:02	JGH	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	05/29/12 22:29	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	05/29/12 22:29	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	05/29/12 22:29	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	05/29/12 22:29	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	05/29/12 22:29	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	05/29/12 22:29	WAT		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52566.17 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	05/29/12 22:29	WAT	96-12-8	



67637

INVOICE TO

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208		E-MAIL ADDRESS dfavero@racertrust.org	

Certifications

☐ OHIO VAP ☐ Drinking Water

☐ DoD ☐ NPDES

Project Locations

☐ Detroit ☐ New York

☐ Other _____

Special Instructions

Containers & Preservatives

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER								☐ Other _____ Special Instructions	
	DATE	TIME																			
525660	5/18/12	0845	SB-A8-LN103-1.5-2.5	S	1	X									X	X	X				Note: metals, Svocs +
.02		0855	SB-A8-LN103-8-9	S	1	X									X	X	X				PCBs, field filtered.
.03		0910	SB-A8-LN103-4-8	GW	5		X							X	X	X	X				
.04		1015	SB-A8-LN108-1-2	S	1	X									X	X	X				
.05		1050	SB-A8-LN103-16-17	S	1	Y									X	X	X				
.06		1122	SB-A8-LN108-10-11	S	1	X									X	X	Y				
08/07		1130	SB-A8-LN108-9-13	GW	5		X							X	X	X	X				MJ/MJD
.08		1318	SB-A8-LN108-18-19	S	1	X									Y	X	X				
.11		1350	SB-A8-LP106-7-8	S	1	Y									X	X	X				
.12		1352	SB-A8-LP106-1-2	S	1	X									X	X	X				
.13		1410	SB-A8-LP106-3.5-7.5	GW	5		X							X	X	X	X				
.14		1535	SB-A8-LP106-17-18	S	1	X									X	X	X				

RELINQUISHED BY:			DATE		TIME	
SIGNATURE/ORGANIZATION			5/18/12		1650	
RELINQUISHED BY:			DATE		TIME	
SIGNATURE/ORGANIZATION			5-18-12		1630	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES:	TEMP. ON ARRIVAL	4.2	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS				

Rev 14



68865

INVOICE TO

CONTACT NAME		Dave Favero		☐ SAME	
COMPANY		RACER TRUST			
ADDRESS		2930 Ecorse Road			
CITY		Ypsilanti		STATE	MI
				ZIP CODE	48198
PHONE NO.		E-MAIL ADDRESS			
313-486-9208		dfavero@racertrust.org			

Certifications

☐ OHIO VAP ☐ Drinking Water

☐ DoD ☐ NPDES

Project Locations

☐ Detroit ☐ New York

☐ Other _____

Special Instructions

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 5/18/12		TIME 1650	
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 5-18-12		TIME 1650	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES:	TEMP. ON ARRIVAL <u>4-2</u>	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS			

Rev. 1.15.12



Analytical Laboratory Report

Revised Report

Report ID: S52567.01(02)

Generated on 06/11/2012

Replaces report S52567.01(01) generated on 06/01/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52567.01-S52567.13

Project: Lansing Plant #2 Project# B0064479.2012

Collected Date: 05/18/2012

Submitted Date/Time: 05/18/2012 16:50

Sampled by: I. Drost/C.Barton

P.O. #: PO125047

Sample tag updated to match COC on sample .11

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Revised Report

Sample Summary (13 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52567.01	SB-A1-RV81_2-3	Soil	05/18/2012 08:40
S52567.02	SB-A1-RV81_12-13	Soil	05/18/2012 09:00
S52567.03	SB-A1-RV81_22-23	Soil	05/18/2012 10:20
S52567.04	SB-A1-RY78_1-2	Soil	05/18/2012 11:15
S52567.05	SB-A1-RY78_11-12	Soil	05/18/2012 11:30
S52567.06	SB-A1-RY78_17.5-18.5	Groundwater	05/18/2012 12:30
S52567.07	SB-A1-RY78_21.5-22.5	Soil	05/18/2012 13:00
S52567.08	SB-A4-MY60_21-22	Soil	05/18/2012 14:15
S52567.09	SB-A4-MY60_1-2	Soil	05/18/2012 13:43
S52567.10	SB-A4-MY60_10-11	Soil	05/18/2012 14:01
S52567.11	SB-A4-MY60_23-24	Groundwater	05/18/2012 15:00
S52567.12	Trip Blank	Groundwater	05/18/2012 00:01
S52567.13	SB-A1-RV81_19-20	Soil	05/18/2012 10:10



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.01
Sample Tag: SB-A1-RV81_2-3
Collected Date/Time: 05/18/2012 08:40
Matrix: Soil
COC Reference: 67391

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/23/12 09:00	CCM		
BNA Extraction (Replicate 01)	Completed			3550B	05/29/12 23:39	EMR		
Mercury Digestion	Completed			7471A	05/29/12 13:10	JRH		
Metal Digestion	Completed			3050B	05/29/12 10:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/22/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/29/12 13:51	PER	7440-36-0	
Arsenic	1.59	mg/kg	0.10	6020	05/29/12 13:51	PER	7440-38-2	
Barium	35.5	mg/kg	1.0	6020	05/29/12 13:51	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/29/12 13:51	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/29/12 13:51	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	05/29/12 13:51	PER	7440-43-9	
Chromium	3.84	mg/kg	0.21	6020	05/29/12 13:51	PER	7440-47-3	
Cobalt	2.93	mg/kg	0.21	6020	05/29/12 13:51	PER	7440-48-4	
Copper	3.95	mg/kg	0.21	6020	05/29/12 13:51	PER	7440-50-8	
Lead	4.02	mg/kg	0.21	6020	05/29/12 13:51	PER	7439-92-1	
Manganese	269	mg/kg	0.21	6020	05/29/12 13:51	PER	7439-96-5	
Mercury	0.0157	mg/kg	0.0057	7471A	05/29/12 16:05	JRT	7439-97-6	
Nickel	6.30	mg/kg	0.21	6020	05/29/12 13:51	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/29/12 13:51	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/29/12 13:51	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/29/12 13:51	PER	7440-28-0	
Vanadium	5.12	mg/kg	0.21	6020	05/29/12 13:51	PER	7440-62-2	
Zinc	8.10	mg/kg	1.0	6020	05/29/12 13:51	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	120-12-7	S
Atrazine	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	1912-24-9	S
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	101-55-3	S
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 17:11	PL	84-74-2	S
Benzaldehyde	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	205-99-2	

S-Surrogate recovery outside of control limits



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.01 (continued)

Sample Tag: SB-A1-RV81_2-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	86-74-8	S
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	534-52-1	S
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/27/12 17:11	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 17:11	PL	84-66-2	
Dimethyl phthalate	40	ug/kg	40	8270C	05/27/12 17:11	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/27/12 17:11	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	206-44-0	S
Fluorene	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	118-74-1	S
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/27/12 17:11	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 17:11	PL	117-84-0	

S-Surrogate recovery outside of control limits

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.01 (continued)

Sample Tag: SB-A1-RV81_2-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	87-86-5	S
Phenanthrene	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	85-01-8	S
Phenol	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 17:11	PL	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/31/12 14:22	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/31/12 14:22	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/31/12 14:22	PL	84-66-2	
Dimethyl phthalate	100	ug/kg	40	8270C	05/31/12 14:22	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/31/12 14:22	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	206-44-0	

S-Surrogate recovery outside of control limits

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.01 (continued)

Sample Tag: SB-A1-RV81_2-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
Fluorene	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/31/12 14:22	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/31/12 14:22	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/31/12 14:22	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.02
Sample Tag: SB-A1-RV81_12-13
Collected Date/Time: 05/18/2012 09:00
Matrix: Soil
COC Reference: 67391

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/23/12 09:00	CCM		
Mercury Digestion	Completed			7471A	05/29/12 13:10	JRH		
Metal Digestion	Completed			3050B	05/29/12 10:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/22/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/29/12 13:53	PER	7440-36-0	
Arsenic	0.99	mg/kg	0.10	6020	05/29/12 13:53	PER	7440-38-2	
Barium	31.5	mg/kg	1.0	6020	05/29/12 13:53	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/29/12 13:53	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/29/12 13:53	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/29/12 13:53	PER	7440-43-9	
Chromium	3.61	mg/kg	0.20	6020	05/29/12 13:53	PER	7440-47-3	
Cobalt	3.31	mg/kg	0.20	6020	05/29/12 13:53	PER	7440-48-4	
Copper	3.97	mg/kg	0.20	6020	05/29/12 13:53	PER	7440-50-8	
Lead	3.47	mg/kg	0.20	6020	05/29/12 13:53	PER	7439-92-1	
Manganese	229	mg/kg	0.20	6020	05/29/12 13:53	PER	7439-96-5	
Mercury	0.0134	mg/kg	0.0055	7471A	05/29/12 16:07	JRT	7439-97-6	
Nickel	7.14	mg/kg	0.20	6020	05/29/12 13:53	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/29/12 13:53	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/29/12 13:53	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/29/12 13:53	PER	7440-28-0	
Vanadium	5.45	mg/kg	0.20	6020	05/29/12 13:53	PER	7440-62-2	
Zinc	8.63	mg/kg	1.0	6020	05/29/12 13:53	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 17:45	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	207-08-9	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.02 (continued)

Sample Tag: SB-A1-RV81_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/27/12 17:45	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 17:45	PL	84-66-2	
Dimethyl phthalate	50	ug/kg	40	8270C	05/27/12 17:45	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/27/12 17:45	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/27/12 17:45	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 17:45	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.02 (continued)

Sample Tag: SB-A1-RV81_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 17:45	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.03
Sample Tag: SB-A1-RV81_22-23
Collected Date/Time: 05/18/2012 10:20
Matrix: Soil
COC Reference: 67391

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/23/12 09:00	CCM		
Mercury Digestion	Completed			7471A	05/29/12 13:10	JRH		
Metal Digestion	Completed			3050B	05/29/12 10:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/22/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/29/12 13:55	PER	7440-36-0	
Arsenic	1.84	mg/kg	0.10	6020	05/29/12 13:55	PER	7440-38-2	
Barium	20.0	mg/kg	1.0	6020	05/29/12 13:55	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/29/12 13:55	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/29/12 13:55	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/29/12 13:55	PER	7440-43-9	
Chromium	2.83	mg/kg	0.20	6020	05/29/12 13:55	PER	7440-47-3	
Cobalt	2.56	mg/kg	0.20	6020	05/29/12 13:55	PER	7440-48-4	
Copper	7.33	mg/kg	0.20	6020	05/29/12 13:55	PER	7440-50-8	
Lead	3.84	mg/kg	0.20	6020	05/29/12 13:55	PER	7439-92-1	
Manganese	225	mg/kg	0.20	6020	05/29/12 13:55	PER	7439-96-5	
Mercury	0.0082	mg/kg	0.0053	7471A	05/29/12 16:09	JRT	7439-97-6	
Nickel	7.45	mg/kg	0.20	6020	05/29/12 13:55	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/29/12 13:55	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/29/12 13:55	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/29/12 13:55	PER	7440-28-0	
Vanadium	4.56	mg/kg	0.20	6020	05/29/12 13:55	PER	7440-62-2	
Zinc	10.1	mg/kg	1.0	6020	05/29/12 13:55	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 18:19	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	207-08-9	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.03 (continued)

Sample Tag: SB-A1-RV81_22-23

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/27/12 18:19	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 18:19	PL	84-66-2	
Dimethyl phthalate	70	ug/kg	40	8270C	05/27/12 18:19	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/27/12 18:19	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/27/12 18:19	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 18:19	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.03 (continued)

Sample Tag: SB-A1-RV81_22-23

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 18:19	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.04
Sample Tag: SB-A1-RY78_1-2
Collected Date/Time: 05/18/2012 11:15
Matrix: Soil
COC Reference: 67391

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/23/12 09:00	CCM		
Mercury Digestion	Completed			7471A	05/29/12 13:10	JRH		
Metal Digestion	Completed			3050B	05/29/12 10:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/22/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/29/12 13:57	PER	7440-36-0	
Arsenic	1.22	mg/kg	0.10	6020	05/29/12 13:57	PER	7440-38-2	
Barium	33.0	mg/kg	1.0	6020	05/29/12 13:57	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/29/12 13:57	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/29/12 13:57	PER	7440-42-8	
Cadmium	0.10	mg/kg	0.10	6020	05/29/12 13:57	PER	7440-43-9	
Chromium	2.62	mg/kg	0.20	6020	05/29/12 13:57	PER	7440-47-3	
Cobalt	3.24	mg/kg	0.20	6020	05/29/12 13:57	PER	7440-48-4	
Copper	3.86	mg/kg	0.20	6020	05/29/12 13:57	PER	7440-50-8	
Lead	4.37	mg/kg	0.20	6020	05/29/12 13:57	PER	7439-92-1	
Manganese	209	mg/kg	0.20	6020	05/29/12 13:57	PER	7439-96-5	
Mercury	0.0162	mg/kg	0.0056	7471A	05/29/12 16:12	JRT	7439-97-6	
Nickel	5.73	mg/kg	0.20	6020	05/29/12 13:57	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/29/12 13:57	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/29/12 13:57	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/29/12 13:57	PER	7440-28-0	
Vanadium	6.43	mg/kg	0.20	6020	05/29/12 13:57	PER	7440-62-2	
Zinc	6.70	mg/kg	1.0	6020	05/29/12 13:57	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 18:53	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	207-08-9	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.04 (continued)

Sample Tag: SB-A1-RY78_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/27/12 18:53	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 18:53	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/27/12 18:53	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/27/12 18:53	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 18:53	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	129-00-0	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.04 (continued)

Sample Tag: SB-A1-RY78_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 18:53	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.05

Sample Tag: SB-A1-RY78_11-12

Collected Date/Time: 05/18/2012 11:30

Matrix: Soil

COC Reference: 67391

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/23/12 09:00	CCM		
Mercury Digestion	Completed			7471A	05/29/12 13:10	JRH		
Metal Digestion	Completed			3050B	05/29/12 10:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/22/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/29/12 14:00	PER	7440-36-0	
Arsenic	1.12	mg/kg	0.10	6020	05/29/12 14:00	PER	7440-38-2	
Barium	32.4	mg/kg	1.0	6020	05/29/12 14:00	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/29/12 14:00	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/29/12 14:00	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/29/12 14:00	PER	7440-43-9	
Chromium	4.62	mg/kg	0.20	6020	05/29/12 14:00	PER	7440-47-3	
Cobalt	2.68	mg/kg	0.20	6020	05/29/12 14:00	PER	7440-48-4	
Copper	4.62	mg/kg	0.20	6020	05/29/12 14:00	PER	7440-50-8	
Lead	3.37	mg/kg	0.20	6020	05/29/12 14:00	PER	7439-92-1	
Manganese	198	mg/kg	0.20	6020	05/29/12 14:00	PER	7439-96-5	
Mercury	0.0149	mg/kg	0.0057	7471A	05/29/12 16:14	JRT	7439-97-6	
Nickel	7.53	mg/kg	0.20	6020	05/29/12 14:00	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/29/12 14:00	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/29/12 14:00	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/29/12 14:00	PER	7440-28-0	
Vanadium	6.69	mg/kg	0.20	6020	05/29/12 14:00	PER	7440-62-2	
Zinc	10.3	mg/kg	1.0	6020	05/29/12 14:00	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/27/12 19:27	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	207-08-9	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.05 (continued)

Sample Tag: SB-A1-RY78_11-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/27/12 19:27	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/27/12 19:27	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/27/12 19:27	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/27/12 19:27	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/27/12 19:27	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	129-00-0	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.05 (continued)

Sample Tag: SB-A1-RY78_11-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 19:27	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.06
Sample Tag: SB-A1-RY78_17.5-18.5
Collected Date/Time: 05/18/2012 12:30
Matrix: Groundwater
COC Reference: 67391

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR
1	1L Amber	None	Yes	4.2	IR
1	125ml Plastic	HNO3	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/23/12 21:08	EMR		
Mercury Digestion	Completed			7471A	05/21/12 13:30	JRH		
Metal Digestion	Completed			3015A	05/30/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 14:53	SLS	7440-36-0	
Arsenic, Dissolved	0.002	mg/L	0.002	6020	05/30/12 14:53	SLS	7440-38-2	
Barium, Dissolved	0.296	mg/L	0.010	6020	05/30/12 14:53	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/31/12 13:44	SLS	7440-41-7	
Boron, Dissolved	0.12	mg/L	0.04	6020	05/30/12 14:53	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/30/12 14:53	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 14:53	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 14:53	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 14:53	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 14:53	SLS	7439-92-1	
Manganese, Dissolved	0.761	mg/L	0.010	6020	05/30/12 14:53	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/21/12 16:26	JRT	7439-97-6	
Nickel, Dissolved	0.056	mg/L	0.010	6020	05/30/12 14:53	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 14:53	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/30/12 14:53	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 14:53	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 14:53	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 14:53	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.06	8270C	05/27/12 01:30	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.06	8270C	05/27/12 01:30	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	205-99-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.06 (continued)

Sample Tag: SB-A1-RY78_17.5-18.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	3	8270C	05/27/12 20:44	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	132-64-9	
Diethyl phthalate	4	ug/L	3	8270C	05/27/12 20:44	PL	84-66-2	
Dimethyl phthalate	4	ug/L	3	8270C	05/27/12 20:44	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	3	8270C	05/27/12 20:44	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	129-00-0	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.06 (continued)

Sample Tag: SB-A1-RY78_17.5-18.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/27/12 20:44	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	05/29/12 13:35	WAT	123-91-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.07

Sample Tag: SB-A1-RY78_21.5-22.5

Collected Date/Time: 05/18/2012 13:00

Matrix: Soil

COC Reference: 67391

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/23/12 09:00	CCM		
Mercury Digestion	Completed			7471A	05/29/12 13:10	JRH		
Metal Digestion	Completed			3050B	05/29/12 10:00	PER		

Inorganics

Total Solids	93	%	1	Std M 2540 B	05/22/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/29/12 14:10	PER	7440-36-0	
Arsenic	1.64	mg/kg	0.10	6020	05/29/12 14:10	PER	7440-38-2	
Barium	18.1	mg/kg	1.0	6020	05/29/12 14:10	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/29/12 14:10	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/29/12 14:10	PER	7440-42-8	
Cadmium	0.13	mg/kg	0.10	6020	05/29/12 14:10	PER	7440-43-9	
Chromium	2.76	mg/kg	0.20	6020	05/29/12 14:10	PER	7440-47-3	
Cobalt	2.57	mg/kg	0.20	6020	05/29/12 14:10	PER	7440-48-4	
Copper	7.40	mg/kg	0.20	6020	05/29/12 14:10	PER	7440-50-8	
Lead	3.85	mg/kg	0.20	6020	05/29/12 14:10	PER	7439-92-1	
Manganese	204	mg/kg	0.20	6020	05/29/12 14:10	PER	7439-96-5	
Mercury	0.0110	mg/kg	0.0053	7471A	05/29/12 16:16	JRT	7439-97-6	
Nickel	7.57	mg/kg	0.20	6020	05/29/12 14:10	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/29/12 14:10	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/29/12 14:10	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/29/12 14:10	PER	7440-28-0	
Vanadium	4.33	mg/kg	0.20	6020	05/29/12 14:10	PER	7440-62-2	
Zinc	14.4	mg/kg	1.0	6020	05/29/12 14:10	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 20:01	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	207-08-9	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.07 (continued)

Sample Tag: SB-A1-RY78_21.5-22.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/27/12 20:01	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 20:01	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/27/12 20:01	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/27/12 20:01	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 20:01	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	129-00-0	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.07 (continued)

Sample Tag: SB-A1-RY78_21.5-22.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 20:01	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.08
Sample Tag: SB-A4-MY60_21-22
Collected Date/Time: 05/18/2012 14:15
Matrix: Soil
COC Reference: 67391

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/23/12 09:00	CCM		
Mercury Digestion	Completed			7471A	05/29/12 13:10	JRH		
Metal Digestion	Completed			3050B	05/29/12 10:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/22/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/29/12 14:13	PER	7440-36-0	
Arsenic	2.37	mg/kg	0.10	6020	05/29/12 14:13	PER	7440-38-2	
Barium	7.97	mg/kg	1.0	6020	05/29/12 14:13	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/29/12 14:13	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/29/12 14:13	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/29/12 14:13	PER	7440-43-9	
Chromium	2.74	mg/kg	0.20	6020	05/29/12 14:13	PER	7440-47-3	
Cobalt	2.35	mg/kg	0.20	6020	05/29/12 14:13	PER	7440-48-4	
Copper	5.76	mg/kg	0.20	6020	05/29/12 14:13	PER	7440-50-8	
Lead	2.80	mg/kg	0.20	6020	05/29/12 14:13	PER	7439-92-1	
Manganese	205	mg/kg	0.20	6020	05/29/12 14:13	PER	7439-96-5	
Mercury	0.0149	mg/kg	0.0056	7471A	05/29/12 16:18	JRT	7439-97-6	
Nickel	8.40	mg/kg	0.20	6020	05/29/12 14:13	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/29/12 14:13	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/29/12 14:13	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/29/12 14:13	PER	7440-28-0	
Vanadium	4.05	mg/kg	0.20	6020	05/29/12 14:13	PER	7440-62-2	
Zinc	6.48	mg/kg	1.0	6020	05/29/12 14:13	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/27/12 20:35	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	207-08-9	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.08 (continued)

Sample Tag: SB-A4-MY60_21-22

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/27/12 20:35	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/27/12 20:35	PL	84-66-2	
Dimethyl phthalate	110	ug/kg	40	8270C	05/27/12 20:35	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/27/12 20:35	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/27/12 20:35	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/27/12 20:35	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.08 (continued)

Sample Tag: SB-A4-MY60_21-22

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 20:35	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.09
Sample Tag: SB-A4-MY60_1-2
Collected Date/Time: 05/18/2012 13:43
Matrix: Soil
COC Reference: 67391

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/23/12 09:00	CCM		
Mercury Digestion	Completed			7471A	05/29/12 13:10	JRH		
Metal Digestion	Completed			3050B	05/29/12 10:00	PER		

Inorganics

Total Solids	94	%	1	Std M 2540 B	05/22/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/29/12 14:15	PER	7440-36-0	
Arsenic	0.60	mg/kg	0.10	6020	05/29/12 14:15	PER	7440-38-2	
Barium	8.15	mg/kg	1.0	6020	05/29/12 14:15	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/29/12 14:15	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/29/12 14:15	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/29/12 14:15	PER	7440-43-9	
Chromium	1.17	mg/kg	0.20	6020	05/29/12 14:15	PER	7440-47-3	
Cobalt	2.14	mg/kg	0.20	6020	05/29/12 14:15	PER	7440-48-4	
Copper	1.47	mg/kg	0.20	6020	05/29/12 14:15	PER	7440-50-8	
Lead	1.88	mg/kg	0.20	6020	05/29/12 14:15	PER	7439-92-1	
Manganese	110	mg/kg	0.20	6020	05/29/12 14:15	PER	7439-96-5	
Mercury	0.0091	mg/kg	0.0054	7471A	05/29/12 16:21	JRT	7439-97-6	
Nickel	2.52	mg/kg	0.20	6020	05/29/12 14:15	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/29/12 14:15	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/29/12 14:15	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/29/12 14:15	PER	7440-28-0	
Vanadium	2.04	mg/kg	0.20	6020	05/29/12 14:15	PER	7440-62-2	
Zinc	2.44	mg/kg	1.0	6020	05/29/12 14:15	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 21:09	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	207-08-9	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.09 (continued)

Sample Tag: SB-A4-MY60_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/27/12 21:09	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 21:09	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/27/12 21:09	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/27/12 21:09	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/27/12 21:09	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	129-00-0	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.09 (continued)

Sample Tag: SB-A4-MY60_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 21:09	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.10
Sample Tag: SB-A4-MY60_10-11
Collected Date/Time: 05/18/2012 14:01
Matrix: Soil
COC Reference: 67391

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/23/12 09:00	CCM		
Mercury Digestion	Completed			7471A	05/29/12 13:10	JRH		
Metal Digestion	Completed			3050B	05/29/12 10:00	PER		

Inorganics

Total Solids	65	%	1	Std M 2540 B	05/22/12 15:00	RGS		
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Metals

Antimony	0.27	mg/kg	0.21	6020	05/29/12 14:27	PER	7440-36-0	
Arsenic	3.98	mg/kg	0.10	6020	05/29/12 14:27	PER	7440-38-2	
Barium	93.6	mg/kg	1.0	6020	05/29/12 14:27	PER	7440-39-3	
Beryllium	0.73	mg/kg	0.21	6020	05/29/12 14:27	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/29/12 14:27	PER	7440-42-8	
Cadmium	4.90	mg/kg	0.10	6020	05/29/12 14:27	PER	7440-43-9	
Chromium	10.6	mg/kg	0.21	6020	05/29/12 14:27	PER	7440-47-3	
Cobalt	5.05	mg/kg	0.21	6020	05/29/12 14:27	PER	7440-48-4	
Copper	79.9	mg/kg	0.21	6020	05/29/12 14:27	PER	7440-50-8	
Lead	208	mg/kg	0.21	6020	05/29/12 14:27	PER	7439-92-1	
Manganese	190	mg/kg	0.21	6020	05/29/12 14:27	PER	7439-96-5	
Mercury	0.0344	mg/kg	0.0077	7471A	05/29/12 16:23	JRT	7439-97-6	
Nickel	34.9	mg/kg	0.21	6020	05/29/12 14:27	PER	7440-02-0	
Selenium	1.55	mg/kg	0.21	6020	05/29/12 14:27	PER	7782-49-2	
Silver	0.14	mg/kg	0.10	6020	05/29/12 14:27	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/29/12 14:27	PER	7440-28-0	
Vanadium	39.9	mg/kg	0.21	6020	05/29/12 14:27	PER	7440-62-2	
Zinc	336	mg/kg	1.0	6020	05/29/12 14:27	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	208-96-8	
Acetophenone	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	98-86-2	
Anthracene	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	120-12-7	
Atrazine	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	500	8270C	05/27/12 05:26	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	191-24-2	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.10 (continued)

Sample Tag: SB-A4-MY60_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	105-60-2	
Carbazole	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	108-60-1	
Chrysene	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	500	8270C	05/27/12 05:26	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	500	8270C	05/27/12 05:26	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	500	8270C	05/27/12 05:26	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	206-44-0	
Fluorene	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	193-39-5	
Isophorone	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	500	8270C	05/27/12 05:26	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	86-30-6	
Naphthalene	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	500	8270C	05/27/12 05:26	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	85-01-8	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.10 (continued)

Sample Tag: SB-A4-MY60_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	108-95-2	
Pyrene	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	300	8270C	05/27/12 05:26	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.11
Sample Tag: SB-A4-MY60_23-24
Collected Date/Time: 05/18/2012 15:00
Matrix: Groundwater
COC Reference: 67391

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR
1	1L Amber	None	Yes	4.2	IR
1	125ml Plastic	HNO3	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/23/12 21:08	EMR		
Mercury Digestion	Completed			7471A	05/21/12 13:30	JRH		
Metal Digestion	Completed			3015A	05/30/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 14:57	SLS	7440-36-0	
Arsenic, Dissolved	0.006	mg/L	0.002	6020	05/30/12 14:57	SLS	7440-38-2	
Barium, Dissolved	0.139	mg/L	0.010	6020	05/30/12 14:57	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/31/12 13:46	SLS	7440-41-7	
Boron, Dissolved	0.13	mg/L	0.04	6020	05/30/12 14:57	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/30/12 14:57	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 14:57	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 14:57	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 14:57	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 14:57	SLS	7439-92-1	
Manganese, Dissolved	1.20	mg/L	0.010	6020	05/30/12 14:57	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/21/12 16:28	JRT	7439-97-6	
Nickel, Dissolved	0.011	mg/L	0.010	6020	05/30/12 14:57	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 14:57	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/30/12 14:57	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 14:57	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 14:57	SLS	7440-62-2	
Zinc, Dissolved	0.013	mg/L	0.010	6020	05/30/12 14:57	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/27/12 01:59	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/27/12 01:59	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	205-99-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.11 (continued)

Sample Tag: SB-A4-MY60_23-24

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/27/12 21:14	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/27/12 21:14	PL	84-66-2	
Dimethyl phthalate	9	ug/L	2	8270C	05/27/12 21:14	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/27/12 21:14	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	129-00-0	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.11 (continued)

Sample Tag: SB-A4-MY60_23-24

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/27/12 21:14	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	7	ug/L	5	8260B - SIM	05/29/12 14:11	WAT	123-91-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.12
Sample Tag: Trip Blank
Collected Date/Time: 05/18/2012 00:01
Matrix: Groundwater
COC Reference: 67391

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	100	8260B	06/01/12 14:04	JGH	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	05/25/12 18:01	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	05/25/12 18:01	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	05/25/12 18:01	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	05/25/12 18:01	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	05/25/12 18:01	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	05/25/12 18:01	WAT		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.12 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	05/25/12 18:01	WAT	96-12-8	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.13

Sample Tag: SB-A1-RV81_19-20

Collected Date/Time: 05/18/2012 10:10

Matrix: Soil

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/23/12 09:00	CCM		
Mercury Digestion	Completed			7471A	05/29/12 13:10	JRH		
Metal Digestion	Completed			3050B	05/29/12 10:00	PER		

Inorganics

Total Solids	84	%	1	Std M 2540 B	05/22/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/29/12 14:30	PER	7440-36-0	
Arsenic	1.81	mg/kg	0.10	6020	05/29/12 14:30	PER	7440-38-2	
Barium	10.0	mg/kg	1.0	6020	05/29/12 14:30	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/29/12 14:30	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	05/29/12 14:30	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/29/12 14:30	PER	7440-43-9	
Chromium	2.24	mg/kg	0.21	6020	05/29/12 14:30	PER	7440-47-3	
Cobalt	1.32	mg/kg	0.21	6020	05/29/12 14:30	PER	7440-48-4	
Copper	4.56	mg/kg	0.21	6020	05/29/12 14:30	PER	7440-50-8	
Lead	2.32	mg/kg	0.21	6020	05/29/12 14:30	PER	7439-92-1	
Manganese	150	mg/kg	0.21	6020	05/29/12 14:30	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0061	7471A	05/29/12 16:25	JRT	7439-97-6	
Nickel	4.07	mg/kg	0.21	6020	05/29/12 14:30	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/29/12 14:30	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/29/12 14:30	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/29/12 14:30	PER	7440-28-0	
Vanadium	2.69	mg/kg	0.21	6020	05/29/12 14:30	PER	7440-62-2	
Zinc	10.4	mg/kg	1.0	6020	05/29/12 14:30	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/27/12 21:43	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	207-08-9	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.13 (continued)

Sample Tag: SB-A1-RV81_19-20

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/27/12 21:43	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/27/12 21:43	PL	84-66-2	
Dimethyl phthalate	100	ug/kg	40	8270C	05/27/12 21:43	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	140	ug/kg	80	8270C	05/27/12 21:43	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/27/12 21:43	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/27/12 21:43	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52567.13 (continued)

Sample Tag: SB-A1-RV81_19-20

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/27/12 21:43	PL	88-06-2	



Analytical Laboratory Report

Report ID: S52586.01(01)
Generated on 05/31/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52586.01-S52586.09
Project: Lansing Plant #2 Project# B0064479.2012
Collected Date: 05/21/2012
Submitted Date/Time: 05/22/2012 09:50
Sampled by: Unknown
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (9 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52586.01	SB-A5.4-MB193_1-2	Soil	05/21/2012 11:43
S52586.02	SB-A5.4-MB193_9-10	Soil	05/21/2012 12:37
S52586.03	SB-A5.4-MB193_12-13	Soil	05/21/2012 12:53
S52586.04	SB-A5.4-MB193_20-21	Soil	05/21/2012 13:29
S52586.05	SB-A5.4-MB193_16-17	Soil	05/21/2012 13:35
S52586.06	SB-A5.4-MB197_0-1	Soil	05/21/2012 15:25
S52586.07	SB-A5.4-MB197_5-9	Groundwater	05/21/2012 15:58
S52586.08	SB-A5.4-MB197_8-9	Soil	05/21/2012 15:35
S52586.09	SB-A5.4-MB197_16-17	Soil	05/21/2012 17:18



Analytical Laboratory Report

Lab Sample ID: S52586.01
Sample Tag: SB-A5.4-MB193_1-2
Collected Date/Time: 05/21/2012 11:43
Matrix: Soil
COC Reference: 68863

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:22	EMR		
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Inorganics

Total Solids	85	%	1	Std M 2540 B	05/22/12 15:00	RGS		
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Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/29/12 21:57	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	100-52-7	
Benzo(a)anthracene	170	ug/kg	40	8270C	05/29/12 21:57	PL	56-55-3	
Benzo(a)pyrene	160	ug/kg	40	8270C	05/29/12 21:57	PL	50-32-8	
Benzo(b)fluoranthene	340	ug/kg	40	8270C	05/29/12 21:57	PL	205-99-2	p
Benzo(ghi)perylene	90	ug/kg	40	8270C	05/29/12 21:57	PL	191-24-2	
Benzo(k)fluoranthene	360	ug/kg	40	8270C	05/29/12 21:57	PL	207-08-9	p
Butyl benzyl phthalate	160	ug/kg	40	8270C	05/29/12 21:57	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	108-60-1	
Chrysene	200	ug/kg	40	8270C	05/29/12 21:57	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/29/12 21:57	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	132-64-9	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S52586.01 (continued)

Sample Tag: SB-A5.4-MB193_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/29/12 21:57	PL	84-66-2	
Dimethyl phthalate	320	ug/kg	40	8270C	05/29/12 21:57	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	90	ug/kg	80	8270C	05/29/12 21:57	PL	117-81-7	
Fluoranthene	380	ug/kg	40	8270C	05/29/12 21:57	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	80	ug/kg	40	8270C	05/29/12 21:57	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/29/12 21:57	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/29/12 21:57	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	87-86-5	
Phenanthrene	170	ug/kg	40	8270C	05/29/12 21:57	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	108-95-2	
Pyrene	340	ug/kg	40	8270C	05/29/12 21:57	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 21:57	PL	88-06-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52586.02
Sample Tag: SB-A5.4-MB193_9-10
Collected Date/Time: 05/21/2012 12:37
Matrix: Soil
COC Reference: 68863

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:22	EMR		
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Inorganics

Total Solids	89	%	1	Std M 2540 B	05/22/12 15:00	RGS		
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Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/29/12 17:31	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/29/12 17:31	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/29/12 17:31	PL	84-66-2	



Analytical Laboratory Report

Lab Sample ID: S52586.02 (continued)

Sample Tag: SB-A5.4-MB193_9-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Dimethyl phthalate	250	ug/kg	40	8270C	05/29/12 17:31	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/29/12 17:31	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/29/12 17:31	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/29/12 17:31	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 17:31	PL	88-06-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52586.03
Sample Tag: SB-A5.4-MB193_12-13
Collected Date/Time: 05/21/2012 12:53
Matrix: Soil
COC Reference: 68863

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:22	EMR		
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Inorganics

Total Solids	92	%	1	Std M 2540 B	05/22/12 15:00	RGS		
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Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/29/12 18:01	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/29/12 18:01	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/29/12 18:01	PL	84-66-2	



Analytical Laboratory Report

Lab Sample ID: S52586.03 (continued)

Sample Tag: SB-A5.4-MB193_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Dimethyl phthalate	240	ug/kg	40	8270C	05/29/12 18:01	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/29/12 18:01	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/29/12 18:01	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/29/12 18:01	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 18:01	PL	88-06-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52586.04
Sample Tag: SB-A5.4-MB193_20-21
Collected Date/Time: 05/21/2012 13:29
Matrix: Soil
COC Reference: 68863

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:22	EMR		
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Inorganics

Total Solids	87	%	1	Std M 2540 B	05/22/12 15:00	RGS		
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Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/29/12 18:30	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/29/12 18:30	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/29/12 18:30	PL	84-66-2	



Analytical Laboratory Report

Lab Sample ID: S52586.04 (continued)

Sample Tag: SB-A5.4-MB193_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Dimethyl phthalate	330	ug/kg	40	8270C	05/29/12 18:30	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/29/12 18:30	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/29/12 18:30	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/29/12 18:30	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 18:30	PL	88-06-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52586.05
Sample Tag: SB-A5.4-MB193_16-17
Collected Date/Time: 05/21/2012 13:35
Matrix: Soil
COC Reference: 68863

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:22	EMR		
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Inorganics

Total Solids	85	%	1	Std M 2540 B	05/22/12 15:00	RGS		
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Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/29/12 19:00	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/29/12 19:00	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/29/12 19:00	PL	84-66-2	



Analytical Laboratory Report

Lab Sample ID: S52586.05 (continued)

Sample Tag: SB-A5.4-MB193_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Dimethyl phthalate	310	ug/kg	40	8270C	05/29/12 19:00	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/29/12 19:00	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/29/12 19:00	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/29/12 19:00	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 19:00	PL	88-06-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52586.06
Sample Tag: SB-A5.4-MB197_0-1
Collected Date/Time: 05/21/2012 15:25
Matrix: Soil
COC Reference: 68863

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:22	EMR		
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Inorganics

Total Solids	92	%	1	Std M 2540 B	05/22/12 15:00	RGS		
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Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	208-96-8	
Acetophenone	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	98-86-2	
Anthracene	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	8270C	05/29/12 22:26	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	100-52-7	
Benzo(a)anthracene	600	ug/kg	100	8270C	05/29/12 22:26	PL	56-55-3	
Benzo(a)pyrene	500	ug/kg	100	8270C	05/29/12 22:26	PL	50-32-8	
Benzo(b)fluoranthene	1,100	ug/kg	100	8270C	05/29/12 22:26	PL	205-99-2	p
Benzo(ghi)perylene	200	ug/kg	100	8270C	05/29/12 22:26	PL	191-24-2	
Benzo(k)fluoranthene	1,200	ug/kg	100	8270C	05/29/12 22:26	PL	207-08-9	p
Butyl benzyl phthalate	600	ug/kg	100	8270C	05/29/12 22:26	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	105-60-2	
Carbazole	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	108-60-1	
Chrysene	600	ug/kg	100	8270C	05/29/12 22:26	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	8270C	05/29/12 22:26	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	132-64-9	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S52586.06 (continued)

Sample Tag: SB-A5.4-MB197_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Diethyl phthalate	Not detected	ug/kg	200	8270C	05/29/12 22:26	PL	84-66-2	
Dimethyl phthalate	300	ug/kg	100	8270C	05/29/12 22:26	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	8270C	05/29/12 22:26	PL	117-81-7	
Fluoranthene	1,100	ug/kg	100	8270C	05/29/12 22:26	PL	206-44-0	
Fluorene	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	200	ug/kg	100	8270C	05/29/12 22:26	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	8270C	05/29/12 22:26	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	86-30-6	
Naphthalene	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	8270C	05/29/12 22:26	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	87-86-5	
Phenanthrene	400	ug/kg	100	8270C	05/29/12 22:26	PL	85-01-8	
Phenol	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	108-95-2	
Pyrene	900	ug/kg	100	8270C	05/29/12 22:26	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	100	8270C	05/29/12 22:26	PL	88-06-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52586.07
Sample Tag: SB-A5.4-MB197_5-9
Collected Date/Time: 05/21/2012 15:58
Matrix: Groundwater
COC Reference: 68863

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.3	IR
2	40ml Glass	HCL	Yes	4.3	IR
1	125ml Plastic	HNO3	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/23/12 21:08	EMR		
Extraction, PCB	Completed			3510C	05/25/12 12:50	ADB		
Mercury Digestion	Completed			7471A	05/30/12 09:00	JRH		
Metal Digestion	Completed			3015A	05/30/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 15:52	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 15:52	SLS	7440-38-2	
Barium, Dissolved	0.059	mg/L	0.010	6020	05/30/12 15:52	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/31/12 14:12	SLS	7440-41-7	
Boron, Dissolved	0.13	mg/L	0.04	6020	05/30/12 15:52	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/30/12 15:52	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 15:52	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 15:52	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 15:52	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 15:52	SLS	7439-92-1	
Manganese, Dissolved	0.186	mg/L	0.010	6020	05/30/12 15:52	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/30/12 14:03	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 15:52	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 15:52	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/30/12 15:52	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 15:52	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 15:52	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 15:52	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/29/12 15:40	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/29/12 15:40	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/29/12 15:40	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/29/12 15:40	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/29/12 15:40	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/29/12 15:40	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/29/12 15:40	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/27/12 05:22	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/27/12 05:22	PL	118-74-1	



Analytical Laboratory Report

Lab Sample ID: S52586.07 (continued)

Sample Tag: SB-A5.4-MB197_5-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/28/12 00:39	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/28/12 00:39	PL	84-66-2	
Dimethyl phthalate	3	ug/L	2	8270C	05/28/12 00:39	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/28/12 00:39	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	88-75-5	



Analytical Laboratory Report

Lab Sample ID: S52586.07 (continued)

Sample Tag: SB-A5.4-MB197_5-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/28/12 00:39	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	05/30/12 17:50	WAT	123-91-1	



Analytical Laboratory Report

Lab Sample ID: S52586.08
Sample Tag: SB-A5.4-MB197_8-9
Collected Date/Time: 05/21/2012 15:35
Matrix: Soil
COC Reference: 68863

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:22	EMR		
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Inorganics

Total Solids	79	%	1	Std M 2540 B	05/22/12 15:00	RGS		
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Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	208-96-8	
Acetophenone	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	98-86-2	
Anthracene	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	120-12-7	
Atrazine	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	300	8270C	05/29/12 22:56	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	100-52-7	
Benzo(a)anthracene	900	ug/kg	200	8270C	05/29/12 22:56	PL	56-55-3	
Benzo(a)pyrene	1,100	ug/kg	200	8270C	05/29/12 22:56	PL	50-32-8	
Benzo(b)fluoranthene	2,100	ug/kg	200	8270C	05/29/12 22:56	PL	205-99-2	p
Benzo(ghi)perylene	500	ug/kg	200	8270C	05/29/12 22:56	PL	191-24-2	
Benzo(k)fluoranthene	2,200	ug/kg	200	8270C	05/29/12 22:56	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	105-60-2	
Carbazole	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	108-60-1	
Chrysene	1,100	ug/kg	200	8270C	05/29/12 22:56	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	8270C	05/29/12 22:56	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	132-64-9	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S52586.08 (continued)

Sample Tag: SB-A5.4-MB197_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Diethyl phthalate	Not detected	ug/kg	300	8270C	05/29/12 22:56	PL	84-66-2	
Dimethyl phthalate	500	ug/kg	200	8270C	05/29/12 22:56	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	300	8270C	05/29/12 22:56	PL	117-81-7	
Fluoranthene	1,600	ug/kg	200	8270C	05/29/12 22:56	PL	206-44-0	
Fluorene	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	500	ug/kg	200	8270C	05/29/12 22:56	PL	193-39-5	
Isophorone	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	300	8270C	05/29/12 22:56	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	86-30-6	
Naphthalene	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	300	8270C	05/29/12 22:56	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	87-86-5	
Phenanthrene	400	ug/kg	200	8270C	05/29/12 22:56	PL	85-01-8	
Phenol	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	108-95-2	
Pyrene	1,500	ug/kg	200	8270C	05/29/12 22:56	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	200	8270C	05/29/12 22:56	PL	88-06-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52586.09
Sample Tag: SB-A5.4-MB197_16-17
Collected Date/Time: 05/21/2012 17:18
Matrix: Soil
COC Reference: 68863

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:22	EMR		
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Inorganics

Total Solids	87	%	1	Std M 2540 B	05/22/12 15:00	RGS		
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Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/29/12 19:29	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/29/12 19:29	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/29/12 19:29	PL	84-66-2	



Analytical Laboratory Report

Lab Sample ID: S52586.09 (continued)

Sample Tag: SB-A5.4-MB197_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Dimethyl phthalate	220	ug/kg	40	8270C	05/29/12 19:29	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/29/12 19:29	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/29/12 19:29	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/29/12 19:29	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 19:29	PL	88-06-2	

B-Compound also found in associated method blank

Merit

Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823

Phone (517) 332-0167 Fax (517) 332-4034

www.meritlabs.com

C.O.C. PAGE # 1 OF 1

68863

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME				Randy Christensen			
COMPANY				ARCADIS			
ADDRESS							
10559 Citation Drive Suite 100							
CITY						STATE	ZIP CODE
Brighton						MI	48116
PHONE NO.			FAX NO.			P.O. NO.	
810-225-1910						PO 125047	
E-MAIL ADDRESS						QUOTE NO.	
randy.christensen@arcadis-us.com						Task#: 5	

CONTACT NAME		Dave Favero		☐ SAME	
COMPANY		RACER TRUST			
ADDRESS		2930 Ecorse Road			
CITY		Ypsilanti		STATE	MI
				ZIP CODE	48198
PHONE NO.		E-MAIL ADDRESS			
313-486-9208		dfavero@racetrust.org			

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Lansing Plant 2	Project#: B00644 79	2012	SAMPLER(S) - PLEASE PRINT/SIGN NAME
TURNAROUND TIME REQUIRED			
☐ 1 DAY	☐ 2 DAYS	☐ 3 DAYS	☒ STANDARD
☐ OTHER			
DELIVERABLES REQUIRED			
☐ LEVEL II	☐ LEVEL III	☐ LEVEL IV	☐ EDD
☐ OTHER			

[illegible]

MATRIX	GW-GROUNDWATER	WW-WASTEWATER	S-SOIL	L-LIQUID	SD-SOLID
CODE:	SL-SLUDGE	DW-DRINKING WATER	O-OIL	WP-WIPE	A-AIR
					W-WASTE

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES
	DATE	TIME			
52586.01	5-21-12	1143	SB-AS.4-MB193_1-2	S	1
.02		1237	SB-AS.4-MB193_9-10	S	1
.03		1253	SB-AS.4-MB193_12-13	S	1
.04		1329	SB-AS.4-MB193_20-21	S	1
.05		1335	SB-AS.4-MB193_16-17	S	1
.06		1525	SB-AS.4-MB197_0-1	S	1
.07		1558	SB-AS.4-MB197_5-9	GW	5
.08		1535	SB-AS.4-MB197_8-9	S	1
.09		1718	SB-AS.4-MB197-16-17	S	1

RELINQUISHED BY: <i>Megan Meckley</i>	☒ Sampler	DATE	TIME
SIGNATURE/ORGANIZATION <i>Megan Meckley</i>		<i>5/21/12</i>	<i>1730</i>
RELINQUISHED BY:		DATE	TIME
SIGNATURE/ORGANIZATION <i>SW Mar</i>		<i>5-20-12</i>	<i>915</i>
RELINQUISHED BY:		DATE	TIME
SIGNATURE/ORGANIZATION			
RELINQUISHED BY:		DATE	TIME
SIGNATURE/ORGANIZATION			

RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES:	TEMP. ON ARRIVAL
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1.15.12



Analytical Laboratory Report

Final Report

Report ID: S52596.01(02)

Generated on 05/31/2012

Replaces report S52596.01(01) generated on 05/30/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52596.01-S52596.14

Project: Lansing Plant #2 Project# B0064479.2012

Collected Date: 05/22/2012

Submitted Date/Time: 05/23/2012 09:20

Sampled by: M.Meckly

P.O. #: PO125047

Complete Report

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Final Report

Sample Summary (14 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52596.01	SB-A5.2-OC107_1.9-2.9	Soil	05/22/2012 13:45
S52596.02	SB-A5.2-OC107_5.5-6.5	Soil	05/22/2012 14:36
S52596.03	SB-A5.2-OC107_8-9	Soil	05/22/2012 14:44
S52596.04	SB-A5.2-NU107_1.5-2.5	Soil	05/22/2012 15:38
S52596.05	SB-A5.2-NU107_8-9	Soil	05/22/2012 16:21
S52596.06	SB-A5.2-NU107_12-13	Soil	05/22/2012 16:42
S52596.07	SB-A5.2-NU107_15.5-16.5	Soil	05/22/2012 17:00
S52596.08	SB-A5.2-DUP46	Soil	05/22/2012 00:01
S52596.09	SB-A5.2-OC107A_8-9	Soil	05/22/2012 17:16
S52596.10	SB-A5.2-OC107A_16-17	Soil	05/22/2012 17:35
S52596.11	SB-A5.2-OB120_1.5-2.5	Soil	05/22/2012 17:55
S52596.12	SB-A5.2-OB120_7.5-8.5	Soil	05/22/2012 18:00
S52596.13	SB-A5.2-OB120_23-24	Soil	05/22/2012 18:40
S52596.14	SB-A5.2-OB120_26-27	Soil	05/22/2012 18:41



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.01

Sample Tag: SB-A5.2-OC107_1.9-2.9

Collected Date/Time: 05/22/2012 13:45

Matrix: Soil

COC Reference: 68861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:22	EMR		
Extraction, PCB	Completed			3550B	05/24/12 10:00	CCM		
Mercury Digestion	Completed			7471A	05/30/12 14:45	JRH		
Metal Digestion	Completed			3050B	05/29/12 10:30	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/29/12 16:38	PER	7440-36-0	
Arsenic	0.59	mg/kg	0.10	6020	05/29/12 16:38	PER	7440-38-2	
Barium	9.09	mg/kg	1.0	6020	05/29/12 16:38	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/29/12 16:38	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/29/12 16:38	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/29/12 16:38	PER	7440-43-9	
Chromium	1.48	mg/kg	0.20	6020	05/29/12 16:38	PER	7440-47-3	
Cobalt	4.55	mg/kg	0.20	6020	05/29/12 16:38	PER	7440-48-4	
Copper	4.95	mg/kg	0.20	6020	05/29/12 16:38	PER	7440-50-8	
Lead	4.00	mg/kg	0.20	6020	05/29/12 16:38	PER	7439-92-1	
Manganese	163	mg/kg	0.20	6020	05/29/12 16:38	PER	7439-96-5	
Mercury	0.0080	mg/kg	0.0056	7471A	05/31/12 11:28	JRT	7439-97-6	
Nickel	4.32	mg/kg	0.20	6020	05/29/12 16:38	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/29/12 16:38	PER	7782-49-2	
Silver	0.58	mg/kg	0.10	6020	05/29/12 16:38	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/29/12 16:38	PER	7440-28-0	
Vanadium	2.27	mg/kg	0.20	6020	05/29/12 16:38	PER	7440-62-2	
Zinc	4.34	mg/kg	1.0	6020	05/29/12 16:38	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/24/12 20:41	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/24/12 20:41	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/24/12 20:41	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/24/12 20:41	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/24/12 20:41	JANB	12672-29-6	
PCB-1254	10	ug/kg	3	8082A	05/24/12 20:41	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/24/12 20:41	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	208-96-8	
Acetophenone	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	98-86-2	



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.01 (continued)

Sample Tag: SB-A5.2-OC107_1.9-2.9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	120-12-7	
Atrazine	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	600	8270C	05/29/12 20:28	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	105-60-2	
Carbazole	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	108-60-1	
Chrysene	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	600	8270C	05/29/12 20:28	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	600	8270C	05/29/12 20:28	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	600	8270C	05/29/12 20:28	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	206-44-0	
Fluorene	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	193-39-5	
Isophorone	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	600	8270C	05/29/12 20:28	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	88-75-5	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.01 (continued)

Sample Tag: SB-A5.2-OC107_1.9-2.9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	86-30-6	
Naphthalene	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	600	8270C	05/29/12 20:28	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	85-01-8	
Phenol	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	108-95-2	
Pyrene	600	ug/kg	300	8270C	05/29/12 20:28	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	300	8270C	05/29/12 20:28	PL	88-06-2	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.02

Sample Tag: SB-A5.2-OC107_5.5-6.5

Collected Date/Time: 05/22/2012 14:36

Matrix: Soil

COC Reference: 68861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:22	EMR		
Extraction, PCB	Completed			3550B	05/24/12 10:00	CCM		
Mercury Digestion	Completed			7471A	05/30/12 14:45	JRH		
Metal Digestion	Completed			3050B	05/29/12 10:30	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/29/12 16:40	PER	7440-36-0	
Arsenic	0.79	mg/kg	0.10	6020	05/29/12 16:40	PER	7440-38-2	
Barium	45.4	mg/kg	1.0	6020	05/29/12 16:40	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/29/12 16:40	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/29/12 16:40	PER	7440-42-8	
Cadmium	0.16	mg/kg	0.10	6020	05/29/12 16:40	PER	7440-43-9	
Chromium	5.49	mg/kg	0.20	6020	05/29/12 16:40	PER	7440-47-3	
Cobalt	4.33	mg/kg	0.20	6020	05/29/12 16:40	PER	7440-48-4	
Copper	8.92	mg/kg	0.20	6020	05/29/12 16:40	PER	7440-50-8	
Lead	2.64	mg/kg	0.20	6020	05/29/12 16:40	PER	7439-92-1	
Manganese	370	mg/kg	0.20	6020	05/29/12 16:40	PER	7439-96-5	
Mercury	0.0116	mg/kg	0.0055	7471A	05/31/12 11:31	JRT	7439-97-6	
Nickel	8.93	mg/kg	0.20	6020	05/29/12 16:40	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/29/12 16:40	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/29/12 16:40	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/29/12 16:40	PER	7440-28-0	
Vanadium	8.00	mg/kg	0.20	6020	05/29/12 16:40	PER	7440-62-2	
Zinc	8.97	mg/kg	1.0	6020	05/29/12 16:40	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/24/12 20:51	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/24/12 20:51	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/24/12 20:51	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/24/12 20:51	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/24/12 20:51	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/24/12 20:51	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/24/12 20:51	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	208-96-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.02 (continued)

Sample Tag: SB-A5.2-OC107_5.5-6.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	98-86-2	X
Anthracene	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	120-12-7	X
Atrazine	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	05/29/12 20:58	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	105-60-2	X
Carbazole	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	108-60-1	X
Chrysene	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	05/29/12 20:58	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	05/29/12 20:58	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	05/29/12 20:58	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	206-44-0	X
Fluorene	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	193-39-5	X
Isophorone	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	05/29/12 20:58	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	88-74-4	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.02 (continued)

Sample Tag: SB-A5.2-OC107_5.5-6.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	05/29/12 20:58	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	85-01-8	X
Phenol	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	108-95-2	X
Pyrene	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	1,000	8270C	05/29/12 20:58	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.03
Sample Tag: SB-A5.2-OC107_8-9
Collected Date/Time: 05/22/2012 14:44
Matrix: Soil
COC Reference: 68861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:22	EMR		
Extraction, PCB	Completed			3550B	05/24/12 10:00	CCM		
Mercury Digestion	Completed			7471A	05/30/12 14:45	JRH		
Metal Digestion	Completed			3050B	05/29/12 10:30	PER		

Inorganics

Total Solids	79	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/29/12 16:42	PER	7440-36-0	
Arsenic	0.81	mg/kg	0.10	6020	05/29/12 16:42	PER	7440-38-2	
Barium	36.2	mg/kg	1.0	6020	05/29/12 16:42	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/29/12 16:42	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/29/12 16:42	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/29/12 16:42	PER	7440-43-9	
Chromium	4.81	mg/kg	0.20	6020	05/29/12 16:42	PER	7440-47-3	
Cobalt	3.25	mg/kg	0.20	6020	05/29/12 16:42	PER	7440-48-4	
Copper	7.21	mg/kg	0.20	6020	05/29/12 16:42	PER	7440-50-8	
Lead	2.78	mg/kg	0.20	6020	05/29/12 16:42	PER	7439-92-1	
Manganese	395	mg/kg	0.20	6020	05/29/12 16:42	PER	7439-96-5	
Mercury	0.0101	mg/kg	0.0063	7471A	05/31/12 11:33	JRT	7439-97-6	
Nickel	7.80	mg/kg	0.20	6020	05/29/12 16:42	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/29/12 16:42	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/29/12 16:42	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/29/12 16:42	PER	7440-28-0	
Vanadium	7.51	mg/kg	0.20	6020	05/29/12 16:42	PER	7440-62-2	
Zinc	7.53	mg/kg	1.0	6020	05/29/12 16:42	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/24/12 21:02	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/24/12 21:02	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/24/12 21:02	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/24/12 21:02	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/24/12 21:02	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/24/12 21:02	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/24/12 21:02	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	208-96-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.03 (continued)

Sample Tag: SB-A5.2-OC107_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	98-86-2	X
Anthracene	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	120-12-7	X
Atrazine	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	1,000	8270C	05/29/12 21:27	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	105-60-2	X
Carbazole	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	108-60-1	X
Chrysene	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	1,000	8270C	05/29/12 21:27	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	1,000	8270C	05/29/12 21:27	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	1,000	8270C	05/29/12 21:27	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	206-44-0	X
Fluorene	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	193-39-5	X
Isophorone	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:27	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	88-74-4	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.03 (continued)

Sample Tag: SB-A5.2-OC107_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	1,000	8270C	05/29/12 21:27	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	85-01-8	X
Phenol	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	108-95-2	X
Pyrene	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	600	8270C	05/29/12 21:27	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.04
Sample Tag: SB-A5.2-NU107_1.5-2.5
Collected Date/Time: 05/22/2012 15:38
Matrix: Soil
COC Reference: 68861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:23	EMR		
Extraction, PCB	Completed			3550B	05/24/12 10:00	CCM		
Mercury Digestion	Completed			7471A	05/30/12 14:45	JRH		
Metal Digestion	Completed			3050B	05/29/12 10:30	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/29/12 16:44	PER	7440-36-0	
Arsenic	0.70	mg/kg	0.10	6020	05/29/12 16:44	PER	7440-38-2	
Barium	9.21	mg/kg	1.0	6020	05/29/12 16:44	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/29/12 16:44	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/29/12 16:44	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/29/12 16:44	PER	7440-43-9	
Chromium	1.34	mg/kg	0.20	6020	05/29/12 16:44	PER	7440-47-3	
Cobalt	2.20	mg/kg	0.20	6020	05/29/12 16:44	PER	7440-48-4	
Copper	1.65	mg/kg	0.20	6020	05/29/12 16:44	PER	7440-50-8	
Lead	1.86	mg/kg	0.20	6020	05/29/12 16:44	PER	7439-92-1	
Manganese	151	mg/kg	0.20	6020	05/29/12 16:44	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0056	7471A	05/31/12 11:35	JRT	7439-97-6	
Nickel	3.76	mg/kg	0.20	6020	05/29/12 16:44	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/29/12 16:44	PER	7782-49-2	
Silver	0.28	mg/kg	0.10	6020	05/29/12 16:44	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/29/12 16:44	PER	7440-28-0	
Vanadium	2.00	mg/kg	0.20	6020	05/29/12 16:44	PER	7440-62-2	
Zinc	2.59	mg/kg	1.0	6020	05/29/12 16:44	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/24/12 18:23	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/24/12 18:23	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/24/12 18:23	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/24/12 18:23	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/24/12 18:23	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/24/12 18:23	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/24/12 18:23	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	98-86-2	



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.04 (continued)

Sample Tag: SB-A5.2-NU107_1.5-2.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/29/12 13:13	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/29/12 13:13	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/29/12 13:13	PL	84-66-2	
Dimethyl phthalate	60	ug/kg	40	8270C	05/29/12 13:13	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/29/12 13:13	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/29/12 13:13	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.04 (continued)

Sample Tag: SB-A5.2-NU107_1.5-2.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/29/12 13:13	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 13:13	PL	88-06-2	



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.05

Sample Tag: SB-A5.2-NU107_8-9

Collected Date/Time: 05/22/2012 16:21

Matrix: Soil

COC Reference: 68861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:23	EMR		
Extraction, PCB	Completed			3550B	05/24/12 10:00	CCM		
Mercury Digestion	Completed			7471A	05/30/12 14:45	JRH		
Metal Digestion	Completed			3050B	05/29/12 10:30	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/29/12 16:46	PER	7440-36-0	
Arsenic	1.03	mg/kg	0.10	6020	05/29/12 16:46	PER	7440-38-2	
Barium	13.6	mg/kg	1.0	6020	05/29/12 16:46	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/29/12 16:46	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/29/12 16:46	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/29/12 16:46	PER	7440-43-9	
Chromium	2.95	mg/kg	0.20	6020	05/29/12 16:46	PER	7440-47-3	
Cobalt	1.87	mg/kg	0.20	6020	05/29/12 16:46	PER	7440-48-4	
Copper	5.34	mg/kg	0.20	6020	05/29/12 16:46	PER	7440-50-8	
Lead	2.59	mg/kg	0.20	6020	05/29/12 16:46	PER	7439-92-1	
Manganese	146	mg/kg	0.20	6020	05/29/12 16:46	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0056	7471A	05/31/12 11:37	JRT	7439-97-6	
Nickel	4.89	mg/kg	0.20	6020	05/29/12 16:46	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/29/12 16:46	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/29/12 16:46	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/29/12 16:46	PER	7440-28-0	
Vanadium	4.73	mg/kg	0.20	6020	05/29/12 16:46	PER	7440-62-2	
Zinc	9.02	mg/kg	1.0	6020	05/29/12 16:46	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/24/12 17:52	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/24/12 17:52	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/24/12 17:52	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/24/12 17:52	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/24/12 17:52	JANB	12672-29-6	
PCB-1254	10	ug/kg	3	8082A	05/24/12 17:52	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/24/12 17:52	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	208-96-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.05 (continued)

Sample Tag: SB-A5.2-NU107_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	98-86-2	X
Anthracene	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	120-12-7	X
Atrazine	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	10,000	8270C	05/29/12 22:10	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	105-60-2	X
Carbazole	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	108-60-1	X
Chrysene	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	120-83-2	X
2,4-Dimethylphenol	144,000	ug/kg	7,000	8270C	05/29/12 22:10	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	10,000	8270C	05/29/12 22:10	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	10,000	8270C	05/29/12 22:10	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	10,000	8270C	05/29/12 22:10	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	206-44-0	X
Fluorene	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	193-39-5	X
Isophorone	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	95-48-7	X
3-, 4-Methylphenol	110,000	ug/kg	10,000	8270C	05/29/12 22:10	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	88-74-4	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.05 (continued)

Sample Tag: SB-A5.2-NU107_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	10,000	8270C	05/29/12 22:10	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	85-01-8	X
Phenol	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	108-95-2	X
Pyrene	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	7,000	8270C	05/29/12 22:10	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.06

Sample Tag: SB-A5.2-NU107_12-13

Collected Date/Time: 05/22/2012 16:42

Matrix: Soil

COC Reference: 68861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:23	EMR		
Extraction, PCB	Completed			3550B	05/24/12 10:00	CCM		
Mercury Digestion	Completed			7471A	05/30/12 14:45	JRH		
Metal Digestion	Completed			3050B	05/29/12 10:30	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/29/12 16:49	PER	7440-36-0	
Arsenic	0.40	mg/kg	0.10	6020	05/29/12 16:49	PER	7440-38-2	
Barium	13.7	mg/kg	1.0	6020	05/29/12 16:49	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/29/12 16:49	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	05/29/12 16:49	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/29/12 16:49	PER	7440-43-9	
Chromium	2.14	mg/kg	0.21	6020	05/29/12 16:49	PER	7440-47-3	
Cobalt	1.60	mg/kg	0.21	6020	05/29/12 16:49	PER	7440-48-4	
Copper	3.48	mg/kg	0.21	6020	05/29/12 16:49	PER	7440-50-8	
Lead	2.62	mg/kg	0.21	6020	05/29/12 16:49	PER	7439-92-1	
Manganese	228	mg/kg	0.21	6020	05/29/12 16:49	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0059	7471A	05/31/12 11:40	JRT	7439-97-6	
Nickel	5.28	mg/kg	0.21	6020	05/29/12 16:49	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/29/12 16:49	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/29/12 16:49	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/29/12 16:49	PER	7440-28-0	
Vanadium	3.68	mg/kg	0.21	6020	05/29/12 16:49	PER	7440-62-2	
Zinc	8.91	mg/kg	1.0	6020	05/29/12 16:49	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	6	8082A	05/24/12 18:34	JANB	12674-11-2	X
PCB-1242	Not detected	ug/kg	6	8082A	05/24/12 18:34	JANB	53469-21-9	X
PCB-1221	Not detected	ug/kg	6	8082A	05/24/12 18:34	JANB	11104-28-2	X
PCB-1232	Not detected	ug/kg	6	8082A	05/24/12 18:34	JANB	11141-16-5	X
PCB-1248	Not detected	ug/kg	6	8082A	05/24/12 18:34	JANB	12672-29-6	X
PCB-1254	Not detected	ug/kg	6	8082A	05/24/12 18:34	JANB	11097-69-1	X
PCB-1260	Not detected	ug/kg	6	8082A	05/24/12 18:34	JANB	11096-82-5	X

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	208-96-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.06 (continued)

Sample Tag: SB-A5.2-NU107_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	98-86-2	X
Anthracene	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	120-12-7	X
Atrazine	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	05/29/12 21:01	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	105-60-2	X
Carbazole	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	108-60-1	X
Chrysene	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	05/29/12 21:01	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	05/29/12 21:01	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	05/29/12 21:01	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	206-44-0	X
Fluorene	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	193-39-5	X
Isophorone	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	05/29/12 21:01	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	88-74-4	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.06 (continued)

Sample Tag: SB-A5.2-NU107_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	05/29/12 21:01	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	85-01-8	X
Phenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	108-95-2	X
Pyrene	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:01	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.07

Sample Tag: SB-A5.2-NU107_15.5-16.5

Collected Date/Time: 05/22/2012 17:00

Matrix: Soil

COC Reference: 68861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:23	EMR		
Extraction, PCB	Completed			3550B	05/24/12 10:00	CCM		
Mercury Digestion	Completed			7471A	05/30/12 14:45	JRH		
Metal Digestion	Completed			3050B	05/29/12 10:30	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/29/12 16:51	PER	7440-36-0	
Arsenic	0.79	mg/kg	0.10	6020	05/29/12 16:51	PER	7440-38-2	
Barium	9.39	mg/kg	1.0	6020	05/29/12 16:51	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/29/12 16:51	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/29/12 16:51	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/29/12 16:51	PER	7440-43-9	
Chromium	1.97	mg/kg	0.20	6020	05/29/12 16:51	PER	7440-47-3	
Cobalt	1.70	mg/kg	0.20	6020	05/29/12 16:51	PER	7440-48-4	
Copper	5.85	mg/kg	0.20	6020	05/29/12 16:51	PER	7440-50-8	
Lead	3.07	mg/kg	0.20	6020	05/29/12 16:51	PER	7439-92-1	
Manganese	209	mg/kg	0.20	6020	05/29/12 16:51	PER	7439-96-5	
Mercury	0.0069	mg/kg	0.0054	7471A	05/31/12 11:42	JRT	7439-97-6	
Nickel	6.83	mg/kg	0.20	6020	05/29/12 16:51	PER	7440-02-0	
Selenium	0.32	mg/kg	0.20	6020	05/29/12 16:51	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/29/12 16:51	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/29/12 16:51	PER	7440-28-0	
Vanadium	3.19	mg/kg	0.20	6020	05/29/12 16:51	PER	7440-62-2	
Zinc	8.46	mg/kg	1.0	6020	05/29/12 16:51	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/24/12 18:45	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/24/12 18:45	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/24/12 18:45	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/24/12 18:45	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/24/12 18:45	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/24/12 18:45	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/24/12 18:45	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	98-86-2	



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.07 (continued)

Sample Tag: SB-A5.2-NU107_15.5-16.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/29/12 13:50	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/29/12 13:50	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/29/12 13:50	PL	84-66-2	
Dimethyl phthalate	60	ug/kg	40	8270C	05/29/12 13:50	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/29/12 13:50	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/29/12 13:50	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.07 (continued)

Sample Tag: SB-A5.2-NU107_15.5-16.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/29/12 13:50	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 13:50	PL	88-06-2	



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.08
Sample Tag: SB-A5.2-DUP46
Collected Date/Time: 05/22/2012 00:01
Matrix: Soil
COC Reference: 68861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:23	EMR		
Extraction, PCB	Completed			3550B	05/24/12 10:00	CCM		
Mercury Digestion	Completed			7471A	05/30/12 17:15	JRH		
Metal Digestion	Completed			3050B	05/29/12 10:30	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/29/12 16:53	PER	7440-36-0	
Arsenic	0.77	mg/kg	0.10	6020	05/29/12 16:53	PER	7440-38-2	
Barium	10.3	mg/kg	1.0	6020	05/29/12 16:53	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/29/12 16:53	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/29/12 16:53	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/29/12 16:53	PER	7440-43-9	
Chromium	2.20	mg/kg	0.21	6020	05/29/12 16:53	PER	7440-47-3	
Cobalt	0.98	mg/kg	0.21	6020	05/29/12 16:53	PER	7440-48-4	
Copper	5.84	mg/kg	0.21	6020	05/29/12 16:53	PER	7440-50-8	
Lead	2.85	mg/kg	0.21	6020	05/29/12 16:53	PER	7439-92-1	
Manganese	170	mg/kg	0.21	6020	05/29/12 16:53	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0056	7471A	05/31/12 11:56	JRT	7439-97-6	
Nickel	4.37	mg/kg	0.21	6020	05/29/12 16:53	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/29/12 16:53	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/29/12 16:53	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/29/12 16:53	PER	7440-28-0	
Vanadium	4.74	mg/kg	0.21	6020	05/29/12 16:53	PER	7440-62-2	
Zinc	6.17	mg/kg	1.0	6020	05/29/12 16:53	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/24/12 18:02	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/24/12 18:02	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/24/12 18:02	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/24/12 18:02	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/24/12 18:02	JANB	12672-29-6	
PCB-1254	5	ug/kg	3	8082A	05/24/12 18:02	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/24/12 18:02	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	208-96-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.08 (continued)

Sample Tag: SB-A5.2-DUP46

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	98-86-2	X
Anthracene	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	120-12-7	X
Atrazine	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	20,000	8270C	05/29/12 22:44	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	105-60-2	X
Carbazole	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	108-60-1	X
Chrysene	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	120-83-2	X
2,4-Dimethylphenol	178,000	ug/kg	8,000	8270C	05/29/12 22:44	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	20,000	8270C	05/29/12 22:44	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	20,000	8270C	05/29/12 22:44	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	20,000	8270C	05/29/12 22:44	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	206-44-0	X
Fluorene	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	193-39-5	X
Isophorone	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	91-57-6	X
2-Methylphenol	11,000	ug/kg	8,000	8270C	05/29/12 22:44	PL	95-48-7	X
3-, 4-Methylphenol	170,000	ug/kg	20,000	8270C	05/29/12 22:44	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	88-74-4	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.08 (continued)

Sample Tag: SB-A5.2-DUP46

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	20,000	8270C	05/29/12 22:44	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	85-01-8	X
Phenol	28,000	ug/kg	8,000	8270C	05/29/12 22:44	PL	108-95-2	X
Pyrene	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	8,000	8270C	05/29/12 22:44	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.09

Sample Tag: SB-A5.2-OC107A_8-9

Collected Date/Time: 05/22/2012 17:16

Matrix: Soil

COC Reference: 68861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:23	EMR		
Extraction, PCB	Completed			3550B	05/24/12 10:00	CCM		
Mercury Digestion	Completed			7471A	05/30/12 17:15	JRH		
Metal Digestion	Completed			3050B	05/30/12 09:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/30/12 13:12	PER	7440-36-0	
Arsenic	0.77	mg/kg	0.10	6020	05/30/12 13:12	PER	7440-38-2	
Barium	12.5	mg/kg	1.0	6020	05/30/12 13:12	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/30/12 13:12	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/30/12 13:12	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	05/30/12 13:12	PER	7440-43-9	
Chromium	2.46	mg/kg	0.20	6020	05/30/12 13:12	PER	7440-47-3	
Cobalt	2.73	mg/kg	0.20	6020	05/30/12 13:12	PER	7440-48-4	
Copper	4.73	mg/kg	0.20	6020	05/30/12 13:12	PER	7440-50-8	
Lead	2.50	mg/kg	0.20	6020	05/30/12 13:12	PER	7439-92-1	
Manganese	154	mg/kg	0.20	6020	05/30/12 13:12	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0055	7471A	05/31/12 11:58	JRT	7439-97-6	
Nickel	6.29	mg/kg	0.20	6020	05/30/12 13:12	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/30/12 13:12	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/30/12 13:12	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/30/12 13:12	PER	7440-28-0	
Vanadium	5.21	mg/kg	0.20	6020	05/30/12 13:12	PER	7440-62-2	
Zinc	9.04	mg/kg	1.0	6020	05/30/12 13:12	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/24/12 21:12	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/24/12 21:12	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/24/12 21:12	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/24/12 21:12	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/24/12 21:12	JANB	12672-29-6	
PCB-1254	3	ug/kg	3	8082A	05/24/12 21:12	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/24/12 21:12	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	208-96-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.09 (continued)

Sample Tag: SB-A5.2-OC107A_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	98-86-2	X
Anthracene	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	120-12-7	X
Atrazine	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	05/29/12 21:35	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	105-60-2	X
Carbazole	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	108-60-1	X
Chrysene	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	05/29/12 21:35	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	05/29/12 21:35	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	05/29/12 21:35	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	206-44-0	X
Fluorene	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	193-39-5	X
Isophorone	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	05/29/12 21:35	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	88-74-4	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.09 (continued)

Sample Tag: SB-A5.2-OC107A_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	05/29/12 21:35	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	85-01-8	X
Phenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	108-95-2	X
Pyrene	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	1,000	8270C	05/29/12 21:35	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.10

Sample Tag: SB-A5.2-OC107A_16-17

Collected Date/Time: 05/22/2012 17:35

Matrix: Soil

COC Reference: 68861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:23	EMR		
Extraction, PCB	Completed			3550B	05/24/12 10:00	CCM		
Mercury Digestion	Completed			7471A	05/30/12 17:15	JRH		
Metal Digestion	Completed			3050B	05/30/12 09:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/30/12 13:21	PER	7440-36-0	
Arsenic	1.11	mg/kg	0.10	6020	05/30/12 13:21	PER	7440-38-2	
Barium	12.4	mg/kg	1.0	6020	05/30/12 13:21	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/30/12 13:21	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/30/12 13:21	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/30/12 13:21	PER	7440-43-9	
Chromium	2.45	mg/kg	0.20	6020	05/30/12 13:21	PER	7440-47-3	
Cobalt	2.01	mg/kg	0.20	6020	05/30/12 13:21	PER	7440-48-4	
Copper	7.75	mg/kg	0.20	6020	05/30/12 13:21	PER	7440-50-8	
Lead	3.77	mg/kg	0.20	6020	05/30/12 13:21	PER	7439-92-1	
Manganese	216	mg/kg	0.20	6020	05/30/12 13:21	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0055	7471A	05/31/12 12:00	JRT	7439-97-6	
Nickel	6.83	mg/kg	0.20	6020	05/30/12 13:21	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/30/12 13:21	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/30/12 13:21	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/30/12 13:21	PER	7440-28-0	
Vanadium	4.30	mg/kg	0.20	6020	05/30/12 13:21	PER	7440-62-2	
Zinc	11.9	mg/kg	1.0	6020	05/30/12 13:21	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/24/12 18:55	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/24/12 18:55	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/24/12 18:55	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/24/12 18:55	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/24/12 18:55	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/24/12 18:55	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/24/12 18:55	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	98-86-2	



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.10 (continued)

Sample Tag: SB-A5.2-OC107A_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/29/12 14:28	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/29/12 14:28	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/29/12 14:28	PL	84-66-2	
Dimethyl phthalate	390	ug/kg	40	8270C	05/29/12 14:28	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/29/12 14:28	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/29/12 14:28	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.10 (continued)

Sample Tag: SB-A5.2-OC107A_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/29/12 14:28	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 14:28	PL	88-06-2	



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.11

Sample Tag: SB-A5.2-OB120_1.5-2.5

Collected Date/Time: 05/22/2012 17:55

Matrix: Soil

COC Reference: 68861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:23	EMR		
Extraction, PCB	Completed			3550B	05/24/12 10:00	CCM		
Mercury Digestion	Completed			7471A	05/30/12 17:15	JRH		
Metal Digestion	Completed			3050B	05/30/12 09:00	PER		

Inorganics

Total Solids	82	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/30/12 13:23	PER	7440-36-0	
Arsenic	0.74	mg/kg	0.10	6020	05/30/12 13:23	PER	7440-38-2	
Barium	7.26	mg/kg	1.0	6020	05/30/12 13:23	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/30/12 13:23	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/30/12 13:23	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/30/12 13:23	PER	7440-43-9	
Chromium	1.31	mg/kg	0.20	6020	05/30/12 13:23	PER	7440-47-3	
Cobalt	4.10	mg/kg	0.20	6020	05/30/12 13:23	PER	7440-48-4	
Copper	1.94	mg/kg	0.20	6020	05/30/12 13:23	PER	7440-50-8	
Lead	2.63	mg/kg	0.20	6020	05/30/12 13:23	PER	7439-92-1	
Manganese	123	mg/kg	0.20	6020	05/30/12 13:23	PER	7439-96-5	
Mercury	0.0073	mg/kg	0.0061	7471A	05/31/12 12:02	JRT	7439-97-6	
Nickel	3.65	mg/kg	0.20	6020	05/30/12 13:23	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/30/12 13:23	PER	7782-49-2	
Silver	0.53	mg/kg	0.10	6020	05/30/12 13:23	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/30/12 13:23	PER	7440-28-0	
Vanadium	2.22	mg/kg	0.20	6020	05/30/12 13:23	PER	7440-62-2	
Zinc	3.15	mg/kg	1.0	6020	05/30/12 13:23	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/24/12 19:06	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/24/12 19:06	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/24/12 19:06	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/24/12 19:06	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/24/12 19:06	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/24/12 19:06	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/24/12 19:06	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	98-86-2	



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.11 (continued)

Sample Tag: SB-A5.2-OB120_1.5-2.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/29/12 15:06	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/29/12 15:06	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/29/12 15:06	PL	84-66-2	
Dimethyl phthalate	400	ug/kg	40	8270C	05/29/12 15:06	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/29/12 15:06	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/29/12 15:06	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.11 (continued)

Sample Tag: SB-A5.2-OB120_1.5-2.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/29/12 15:06	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 15:06	PL	88-06-2	



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.12
Sample Tag: SB-A5.2-OB120_7.5-8.5
Collected Date/Time: 05/22/2012 18:00
Matrix: Soil
COC Reference: 68861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:23	EMR		
Extraction, PCB	Completed			3550B	05/24/12 10:00	CCM		
Mercury Digestion	Completed			7471A	05/30/12 17:15	JRH		
Metal Digestion	Completed			3050B	05/30/12 09:00	PER		

Inorganics

Total Solids	85	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/30/12 13:25	PER	7440-36-0	
Arsenic	1.27	mg/kg	0.10	6020	05/30/12 13:25	PER	7440-38-2	
Barium	45.9	mg/kg	1.0	6020	05/30/12 13:25	PER	7440-39-3	
Beryllium	0.30	mg/kg	0.20	6020	05/30/12 13:25	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/30/12 13:25	PER	7440-42-8	
Cadmium	0.16	mg/kg	0.10	6020	05/30/12 13:25	PER	7440-43-9	
Chromium	5.51	mg/kg	0.20	6020	05/30/12 13:25	PER	7440-47-3	
Cobalt	2.67	mg/kg	0.20	6020	05/30/12 13:25	PER	7440-48-4	
Copper	12.6	mg/kg	0.20	6020	05/30/12 13:25	PER	7440-50-8	
Lead	33.5	mg/kg	0.20	6020	05/30/12 13:25	PER	7439-92-1	
Manganese	181	mg/kg	0.20	6020	05/30/12 13:25	PER	7439-96-5	
Mercury	0.0152	mg/kg	0.0059	7471A	05/31/12 12:05	JRT	7439-97-6	
Nickel	6.62	mg/kg	0.20	6020	05/30/12 13:25	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/30/12 13:25	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/30/12 13:25	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/30/12 13:25	PER	7440-28-0	
Vanadium	11.5	mg/kg	0.20	6020	05/30/12 13:25	PER	7440-62-2	
Zinc	27.9	mg/kg	1.0	6020	05/30/12 13:25	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/24/12 19:16	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/24/12 19:16	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/24/12 19:16	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/24/12 19:16	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/24/12 19:16	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/24/12 19:16	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/24/12 19:16	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	98-86-2	



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.12 (continued)

Sample Tag: SB-A5.2-OB120_7.5-8.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/29/12 15:43	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/29/12 15:43	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/29/12 15:43	PL	84-66-2	
Dimethyl phthalate	190	ug/kg	40	8270C	05/29/12 15:43	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/29/12 15:43	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/29/12 15:43	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.12 (continued)

Sample Tag: SB-A5.2-OB120_7.5-8.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/29/12 15:43	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 15:43	PL	88-06-2	



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.13

Sample Tag: SB-A5.2-OB120_23-24

Collected Date/Time: 05/22/2012 18:40

Matrix: Soil

COC Reference: 68864

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:23	EMR		
Extraction, PCB	Completed			3550B	05/24/12 10:00	CCM		
Mercury Digestion	Completed			7471A	05/30/12 17:15	JRH		
Metal Digestion	Completed			3050B	05/30/12 09:00	PER		

Inorganics

Total Solids	77	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/30/12 13:28	PER	7440-36-0	
Arsenic	1.47	mg/kg	0.10	6020	05/30/12 13:28	PER	7440-38-2	
Barium	23.5	mg/kg	1.0	6020	05/30/12 13:28	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/30/12 13:28	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	05/30/12 13:28	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/30/12 13:28	PER	7440-43-9	
Chromium	3.27	mg/kg	0.21	6020	05/30/12 13:28	PER	7440-47-3	
Cobalt	2.77	mg/kg	0.21	6020	05/30/12 13:28	PER	7440-48-4	
Copper	8.48	mg/kg	0.21	6020	05/30/12 13:28	PER	7440-50-8	
Lead	4.03	mg/kg	0.21	6020	05/30/12 13:28	PER	7439-92-1	
Manganese	232	mg/kg	0.21	6020	05/30/12 13:28	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0062	7471A	05/31/12 12:07	JRT	7439-97-6	
Nickel	8.28	mg/kg	0.21	6020	05/30/12 13:28	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/30/12 13:28	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/30/12 13:28	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/30/12 13:28	PER	7440-28-0	
Vanadium	5.27	mg/kg	0.21	6020	05/30/12 13:28	PER	7440-62-2	
Zinc	15.2	mg/kg	1.0	6020	05/30/12 13:28	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/24/12 19:27	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/24/12 19:27	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/24/12 19:27	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/24/12 19:27	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/24/12 19:27	JANB	12672-29-6	
PCB-1254	6	ug/kg	3	8082A	05/24/12 19:27	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/24/12 19:27	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	98-86-2	



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.13 (continued)

Sample Tag: SB-A5.2-OB120_23-24

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	90	8270C	05/29/12 16:21	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	90	8270C	05/29/12 16:21	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	90	8270C	05/29/12 16:21	PL	84-66-2	
Dimethyl phthalate	160	ug/kg	40	8270C	05/29/12 16:21	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	90	8270C	05/29/12 16:21	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	90	8270C	05/29/12 16:21	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.13 (continued)

Sample Tag: SB-A5.2-OB120_23-24

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	90	8270C	05/29/12 16:21	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 16:21	PL	88-06-2	



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.14

Sample Tag: SB-A5.2-OB120_26-27

Collected Date/Time: 05/22/2012 18:41

Matrix: Soil

COC Reference: 68864

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:23	EMR		
Extraction, PCB	Completed			3550B	05/24/12 14:46	CCM		
Mercury Digestion	Completed			7471A	05/30/12 17:15	JRH		
Metal Digestion	Completed			3050B	05/30/12 09:00	PER		

Inorganics

Total Solids	73	%	1	Std M 2540 B	05/25/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.24	6020	05/30/12 13:30	PER	7440-36-0	
Arsenic	3.72	mg/kg	0.12	6020	05/30/12 13:30	PER	7440-38-2	
Barium	38.0	mg/kg	1.2	6020	05/30/12 13:30	PER	7440-39-3	
Beryllium	0.32	mg/kg	0.24	6020	05/30/12 13:30	PER	7440-41-7	
Boron	Not detected	mg/kg	4.8	6020	05/30/12 13:30	PER	7440-42-8	
Cadmium	0.12	mg/kg	0.12	6020	05/30/12 13:30	PER	7440-43-9	
Chromium	8.53	mg/kg	0.24	6020	05/30/12 13:30	PER	7440-47-3	
Cobalt	5.92	mg/kg	0.24	6020	05/30/12 13:30	PER	7440-48-4	
Copper	15.8	mg/kg	0.24	6020	05/30/12 13:30	PER	7440-50-8	
Lead	7.23	mg/kg	0.24	6020	05/30/12 13:30	PER	7439-92-1	
Manganese	796	mg/kg	0.24	6020	05/30/12 13:30	PER	7439-96-5	
Mercury	0.0113	mg/kg	0.0067	7471A	05/31/12 12:09	JRT	7439-97-6	
Nickel	15.6	mg/kg	0.24	6020	05/30/12 13:30	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.24	6020	05/30/12 13:30	PER	7782-49-2	
Silver	Not detected	mg/kg	0.12	6020	05/30/12 13:30	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.24	6020	05/30/12 13:30	PER	7440-28-0	
Vanadium	11.8	mg/kg	0.24	6020	05/30/12 13:30	PER	7440-62-2	
Zinc	22.8	mg/kg	1.2	6020	05/30/12 13:30	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	20	8082A	05/24/12 17:41	JANB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	20	8082A	05/24/12 17:41	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	20	8082A	05/24/12 17:41	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	20	8082A	05/24/12 17:41	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	20	8082A	05/24/12 17:41	JANB	12672-29-6	Y
PCB-1254	160	ug/kg	20	8082A	05/24/12 17:41	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	20	8082A	05/24/12 17:41	JANB	11096-82-5	Y

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	208-96-8	

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.14 (continued)

Sample Tag: SB-A5.2-OB120_26-27

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	98-86-2	
Anthracene	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	120-12-7	
Atrazine	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	700	8270C	05/29/12 20:27	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	105-60-2	
Carbazole	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	108-60-1	
Chrysene	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	700	8270C	05/29/12 20:27	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	700	8270C	05/29/12 20:27	PL	84-66-2	X
Dimethyl phthalate	600	ug/kg	300	8270C	05/29/12 20:27	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	700	8270C	05/29/12 20:27	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	206-44-0	
Fluorene	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	193-39-5	
Isophorone	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	700	8270C	05/29/12 20:27	PL	3/4-Cresol	

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Final Report

Lab Sample ID: S52596.14 (continued)

Sample Tag: SB-A5.2-OB120_26-27

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	86-30-6	
Naphthalene	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	700	8270C	05/29/12 20:27	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	85-01-8	
Phenol	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	108-95-2	
Pyrene	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	300	8270C	05/29/12 20:27	PL	88-06-2	

X-Elevated reporting limit due to matrix interference

LIF Stepsouts

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME **Randy Christensen**
COMPANY **ARCADIS**
ADDRESS **10559 Citation Drive Suite 100**
CITY **Brighton** STATE **MI** ZIP CODE **48116**
PHONE NO. **810-225-1910** FAX NO. **PO 125047**
E-MAIL ADDRESS **randy.christensen@arcadis-us.com** QUOTE NO. **Task# 5**

CONTACT NAME **Dave Favero** ☐ SAME
COMPANY **RACER TRUST**
ADDRESS **2930 Ecorse Road**
CITY **Ypsilanti** STATE **MI** ZIP CODE **48198**
PHONE NO. **313-486-9208** E-MAIL ADDRESS **dfavero@racertrust.org**

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME **Lansing Plant 2 Project# B00644 7/9/2012** SAMPLES - PLEASE PRINT/SIGN NAME *M. Mockley*
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☒ OTHER **5 day TAT**
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER **PCBs**

MATRIX CODE: GW-GROUNDWATER WW-WASTEWATER S-SOIL L-LIQUID SD-SOLID
SL-SLUDGE DW-DRINKING WATER O-OIL WP-WIPE A-AIR W-WASTE

Containers & Preservatives

VOCs/1,4 Dioxane

SVOCs

PCBs

Metals (w/Hg)

Certifications

☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations

☐ Detroit ☐ New York

☐ Other _____

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR	DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	VOCs/1,4 Dioxane	SVOCs	PCBs	Metals (w/Hg)	Certifications	Project Locations	Special Instructions
5259601	15	22-12	1345	SB-AS.2-OC107-1.9-2.9	S	1	X								X	X	X			Note: 5 day TAT for PCBs only
.02			1436	SB-AS.2-OC107-5.5-6.5	S	1	X								X	X	X			
.03			1444	SB-AS.2-OC107-8.9	S	1	X								X	X	X			
.04			1538	SB-AS.2-NU107-1.5-2.5	S	1	X								X	X	X			
.05			1621	JB-AS.2-NU107-8.9	S	1	X								X	X	X			
.06			1642	JB-AS.2-NU107-12-13	S	1	X								X	X	X			
.07			1700	JB-AS.2-NU107-15.5-16.5	S	1	X								X	X	X			
.08				JB-AS.2-DP46	S	1	X								X	X	X			
.09			1716	SB-AS.2-OC107-8.9	S	1	X								X	X	X			
.10			1735	SB-AS.2-OC107-16-17	S	1	X								X	X	X			
.11			1755	SB-AS.2-OB120-1.5-2.5	S	1	X								X	X	X			
.12			1800	JB-AS.2-OB120-7.5-8.5	S	1	X								X	X	X			

RELINQUISHED BY: *Morgan Mockley* ☒ Sampler DATE **5/22/12** TIME **1900**
SIGNATURE/ORGANIZATION
RELINQUISHED BY: _____ DATE _____ TIME _____
SIGNATURE/ORGANIZATION
RELINQUISHED BY: _____ DATE _____ TIME _____
SIGNATURE/ORGANIZATION
RELINQUISHED BY: _____ DATE _____ TIME _____
SIGNATURE/ORGANIZATION

RELINQUISHED BY: _____ DATE _____ TIME _____
SIGNATURE/ORGANIZATION
RELINQUISHED BY: *Purd* DATE **5-23-12** TIME **0900**
SIGNATURE/ORGANIZATION
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS _____
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS _____
NOTES: TEMP. ON ARRIVAL **40**



www.meritlabs.com

C.O.C. PAGE # 2 OF 2

68864

INVOICE TO

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208	E-MAIL ADDRESS d Favero@racertrust.org		
ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)			

[illegible]

Containers & Preservatives

[illegible]

RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL <u>4.0</u>	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		

Rev 1 15.12



Analytical Laboratory Report

Report ID: S52597.01(01)
Generated on 06/06/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52597.01-S52597.06
Project: Lansing Plant #2 Project# B0064479.2012
Collected Date: 05/22/2012
Submitted Date/Time: 05/23/2012 09:20
Sampled by: M.Meckly
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)
Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (6 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52597.01	SB-A5.4-MD195_1-2	Soil	05/22/2012 08:56
S52597.02	SB-A5.4-MD195_2-3	Soil	05/22/2012 09:04
S52597.03	SB-A5.4-MD195_4-8	Groundwater	05/22/2012 09:39
S52597.04	SB-A5.4-MD195_13-14	Soil	05/22/2012 10:56
S52597.05	SB-A5.4-DUP41	Groundwater	05/22/2012 00:01
S52597.06	Trip Blank	Groundwater	05/22/2012 00:01



Analytical Laboratory Report

Lab Sample ID: S52597.01
Sample Tag: SB-A5.4-MD195_1-2
Collected Date/Time: 05/22/2012 08:56
Matrix: Soil
COC Reference: 68862

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:23	EMR		
BNA Extraction (Replicate 01)	Completed			3550B	05/30/12 20:41	EMR		

Inorganics

Total Solids	94	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	208-96-8	
Acetophenone	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	98-86-2	
Anthracene	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	120-12-7	S
Atrazine	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	1912-24-9	S
1,1'-Biphenyl	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	101-55-3	S
di-n-Butyl phthalate	Not detected	ug/kg	100	8270C	05/29/12 19:18	PL	84-74-2	S
Benzaldehyde	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	100-52-7	S
Benzo(a)anthracene	100	ug/kg	70	8270C	05/29/12 19:18	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	50-32-8	
Benzo(b)fluoranthene	160	ug/kg	70	8270C	05/29/12 19:18	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	191-24-2	
Benzo(k)fluoranthene	160	ug/kg	70	8270C	05/29/12 19:18	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	105-60-2	
Carbazole	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	86-74-8	S
bis(2-Chloroethoxy)methane	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	108-60-1	
Chrysene	100	ug/kg	70	8270C	05/29/12 19:18	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	534-52-1	S
Dibenzo(ah)anthracene	Not detected	ug/kg	100	8270C	05/29/12 19:18	PL	53-70-3	

S-Surrogate recovery outside of control limits



Analytical Laboratory Report

Lab Sample ID: S52597.01 (continued)

Sample Tag: SB-A5.4-MD195_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Dibenzofuran	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	100	8270C	05/29/12 19:18	PL	84-66-2	
Dimethyl phthalate	470	ug/kg	70	8270C	05/29/12 19:18	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	1,200	ug/kg	100	8270C	05/29/12 19:18	PL	117-81-7	
Fluoranthene	140	ug/kg	70	8270C	05/29/12 19:18	PL	206-44-0	S
Fluorene	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	118-74-1	S
Hexachlorobutadiene	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	193-39-5	
Isophorone	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	78-59-1	
2-Methylnaphthalene	90	ug/kg	70	8270C	05/29/12 19:18	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	100	8270C	05/29/12 19:18	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	86-30-6	S
Naphthalene	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	100	8270C	05/29/12 19:18	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	87-86-5	S
Phenanthrene	110	ug/kg	70	8270C	05/29/12 19:18	PL	85-01-8	S
Phenol	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	108-95-2	
Pyrene	120	ug/kg	70	8270C	05/29/12 19:18	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	70	8270C	05/29/12 19:18	PL	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	208-96-8	
Acetophenone	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	98-86-2	
Anthracene	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	120-12-7	S
Atrazine	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	1912-24-9	S
1,1'-Biphenyl	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	101-55-3	S
di-n-Butyl phthalate	Not detected	ug/kg	100	8270C	05/31/12 14:56	PL	84-74-2	S
Benzaldehyde	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	100-52-7	S
Benzo(a)anthracene	80	ug/kg	70	8270C	05/31/12 14:56	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	50-32-8	
Benzo(b)fluoranthene	120	ug/kg	70	8270C	05/31/12 14:56	PL	205-99-2	p
Benzo(ghi)perylene	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	191-24-2	

B-Compound also found in associated method blank

S-Surrogate recovery outside of control limits

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S52597.01 (continued)

Sample Tag: SB-A5.4-MD195_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
Benzo(k)fluoranthene	120	ug/kg	70	8270C	05/31/12 14:56	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	105-60-2	
Carbazole	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	86-74-8	S
bis(2-Chloroethoxy)methane	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	108-60-1	
Chrysene	80	ug/kg	70	8270C	05/31/12 14:56	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	534-52-1	S
Dibenzo(ah)anthracene	Not detected	ug/kg	100	8270C	05/31/12 14:56	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	100	8270C	05/31/12 14:56	PL	84-66-2	
Dimethyl phthalate	160	ug/kg	70	8270C	05/31/12 14:56	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	900	ug/kg	100	8270C	05/31/12 14:56	PL	117-81-7	
Fluoranthene	110	ug/kg	70	8270C	05/31/12 14:56	PL	206-44-0	S
Fluorene	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	118-74-1	S
Hexachlorobutadiene	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	193-39-5	
Isophorone	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	100	8270C	05/31/12 14:56	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	86-30-6	S
Naphthalene	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	100	8270C	05/31/12 14:56	PL	117-84-0	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

S-Surrogate recovery outside of control limits

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52597.01 (continued)

Sample Tag: SB-A5.4-MD195_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
Pentachlorophenol	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	87-86-5	S
Phenanthrene	90	ug/kg	70	8270C	05/31/12 14:56	PL	85-01-8	S
Phenol	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	108-95-2	
Pyrene	100	ug/kg	70	8270C	05/31/12 14:56	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	70	8270C	05/31/12 14:56	PL	88-06-2	

S-Surrogate recovery outside of control limits



Analytical Laboratory Report

Lab Sample ID: S52597.02
Sample Tag: SB-A5.4-MD195_2-3
Collected Date/Time: 05/22/2012 09:04
Matrix: Soil
COC Reference: 68862

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:23	EMR		
BNA Extraction (Replicate 01)	Completed			3550B	05/30/12 20:41	EMR		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	208-96-8	
Acetophenone	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	98-86-2	
Anthracene	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	120-12-7	S
Atrazine	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	1912-24-9	S
1,1'-Biphenyl	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	101-55-3	S
di-n-Butyl phthalate	Not detected	ug/kg	400	8270C	05/29/12 19:52	PL	84-74-2	XS
Benzaldehyde	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	100-52-7	S
Benzo(a)anthracene	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	50-32-8	
Benzo(b)fluoranthene	200	ug/kg	200	8270C	05/29/12 19:52	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	191-24-2	
Benzo(k)fluoranthene	200	ug/kg	200	8270C	05/29/12 19:52	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	105-60-2	
Carbazole	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	86-74-8	S
bis(2-Chloroethoxy)methane	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	108-60-1	
Chrysene	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	534-52-1	S

S-Surrogate recovery outside of control limits

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52597.02 (continued)

Sample Tag: SB-A5.4-MD195_2-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Dibenzo(ah)anthracene	Not detected	ug/kg	400	8270C	05/29/12 19:52	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	400	8270C	05/29/12 19:52	PL	84-66-2	X
Dimethyl phthalate	500	ug/kg	200	8270C	05/29/12 19:52	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	11,300	ug/kg	400	8270C	05/29/12 19:52	PL	117-81-7	X
Fluoranthene	200	ug/kg	200	8270C	05/29/12 19:52	PL	206-44-0	S
Fluorene	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	118-74-1	S
Hexachlorobutadiene	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	193-39-5	
Isophorone	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	78-59-1	
2-Methylnaphthalene	200	ug/kg	200	8270C	05/29/12 19:52	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	400	8270C	05/29/12 19:52	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	86-30-6	S
Naphthalene	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	400	8270C	05/29/12 19:52	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	87-86-5	S
Phenanthrene	200	ug/kg	200	8270C	05/29/12 19:52	PL	85-01-8	S
Phenol	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	108-95-2	
Pyrene	200	ug/kg	200	8270C	05/29/12 19:52	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	200	8270C	05/29/12 19:52	PL	88-06-2	

TCL Semi-Volatile Organics (Replicate 01)

Acenaphthene	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	208-96-8	
Acetophenone	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	98-86-2	
Anthracene	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	120-12-7	S
Atrazine	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	1912-24-9	S
1,1'-Biphenyl	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	101-55-3	S
di-n-Butyl phthalate	Not detected	ug/kg	400	8270C	05/31/12 15:30	PL	84-74-2	XS
Benzaldehyde	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	100-52-7	S
Benzo(a)anthracene	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	56-55-3	I
Benzo(a)pyrene	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	50-32-8	

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank

S-Surrogate recovery outside of control limits

I-Matrix interference with internal standard



Analytical Laboratory Report

Lab Sample ID: S52597.02 (continued)

Sample Tag: SB-A5.4-MD195_2-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
Benzo(b)fluoranthene	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	85-68-7	I
2-Chloronaphthalene	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	105-60-2	
Carbazole	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	86-74-8	S
bis(2-Chloroethoxy)methane	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	108-60-1	
Chrysene	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	218-01-9	I
2,4-Dichlorophenol	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	91-94-1	I
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	534-52-1	S
Dibenzo(ah)anthracene	Not detected	ug/kg	400	8270C	05/31/12 15:30	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	400	8270C	05/31/12 15:30	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	20,100	ug/kg	400	8270C	05/31/12 15:30	PL	117-81-7	IX
Fluoranthene	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	206-44-0	S
Fluorene	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	118-74-1	S
Hexachlorobutadiene	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	193-39-5	
Isophorone	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	400	8270C	05/31/12 15:30	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	86-30-6	S
Naphthalene	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	91-20-3	

I-Matrix interference with internal standard

S-Surrogate recovery outside of control limits

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52597.02 (continued)

Sample Tag: SB-A5.4-MD195_2-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
Nitrobenzene	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	400	8270C	05/31/12 15:30	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	87-86-5	S
Phenanthrene	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	85-01-8	S
Phenol	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	108-95-2	
Pyrene	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	129-00-0	I
2,4,5-Trichlorophenol	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	200	8270C	05/31/12 15:30	PL	88-06-2	

X-Elevated reporting limit due to matrix interference

S-Surrogate recovery outside of control limits

I-Matrix interference with internal standard



Analytical Laboratory Report

Lab Sample ID: S52597.03
Sample Tag: SB-A5.4-MD195_4-8
Collected Date/Time: 05/22/2012 09:39
Matrix: Groundwater
COC Reference: 68862

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.0	IR
2	40ml Glass	HCL	Yes	4.0	IR
1	125ml Plastic	HNO3	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/23/12 21:08	EMR		
Extraction, PCB	Completed			3510C	05/29/12 11:51	ADB		
Mercury Digestion	Completed			7471A	05/30/12 09:00	JRH		
Metal Digestion	Completed			3015A	05/30/12 01:00	SLR		

Metals

Antimony, Dissolved	0.002	mg/L	0.002	6020	05/30/12 16:11	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 16:11	SLS	7440-38-2	
Barium, Dissolved	0.031	mg/L	0.010	6020	05/30/12 16:11	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/31/12 14:14	SLS	7440-41-7	
Boron, Dissolved	0.11	mg/L	0.04	6020	05/30/12 16:11	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/30/12 16:11	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 16:11	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 16:11	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 16:11	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 16:11	SLS	7439-92-1	
Manganese, Dissolved	0.096	mg/L	0.010	6020	05/30/12 16:11	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/30/12 14:05	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 16:11	SLS	7440-02-0	
Selenium, Dissolved	0.002	mg/L	0.002	6020	05/30/12 16:11	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/30/12 16:11	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 16:11	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 16:11	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 16:11	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/29/12 14:26	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/29/12 14:26	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/29/12 14:26	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/29/12 14:26	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/29/12 14:26	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/29/12 14:26	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/29/12 14:26	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.06	8270C	05/27/12 05:51	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.06	8270C	05/27/12 05:51	PL	118-74-1	



Analytical Laboratory Report

Lab Sample ID: S52597.03 (continued)

Sample Tag: SB-A5.4-MD195_4-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/28/12 01:08	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/28/12 01:08	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	05/28/12 01:08	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/28/12 01:08	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	88-75-5	



Analytical Laboratory Report

Lab Sample ID: S52597.03 (continued)

Sample Tag: SB-A5.4-MD195_4-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/28/12 01:08	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	05/30/12 18:08	WAT	123-91-1	



Analytical Laboratory Report

Lab Sample ID: S52597.04
Sample Tag: SB-A5.4-MD195_13-14
Collected Date/Time: 05/22/2012 10:56
Matrix: Soil
COC Reference: 68862

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/24/12 23:23	EMR		
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Inorganics

Total Solids	88	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/29/12 16:59	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/29/12 16:59	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/29/12 16:59	PL	84-66-2	



Analytical Laboratory Report

Lab Sample ID: S52597.04 (continued)

Sample Tag: SB-A5.4-MD195_13-14

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Dimethyl phthalate	290	ug/kg	40	8270C	05/29/12 16:59	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/29/12 16:59	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/29/12 16:59	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/29/12 16:59	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/29/12 16:59	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52597.05
Sample Tag: SB-A5.4-DUP41
Collected Date/Time: 05/22/2012 00:01
Matrix: Groundwater
COC Reference: 68862

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.0	IR
2	40ml Glass	HCL	Yes	4.0	IR
1	125ml Plastic	HNO3	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/23/12 21:08	EMR		
Extraction, PCB	Completed			3510C	05/29/12 11:51	ADB		
Mercury Digestion	Completed			7471A	05/30/12 09:00	JRH		
Metal Digestion	Completed			3015A	05/30/12 01:00	SLR		

Metals

Antimony, Dissolved	0.002	mg/L	0.002	6020	05/30/12 16:15	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 16:15	SLS	7440-38-2	
Barium, Dissolved	0.029	mg/L	0.010	6020	05/30/12 16:15	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/31/12 14:16	SLS	7440-41-7	
Boron, Dissolved	0.11	mg/L	0.04	6020	05/30/12 16:15	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/30/12 16:15	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 16:15	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 16:15	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 16:15	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 16:15	SLS	7439-92-1	
Manganese, Dissolved	0.043	mg/L	0.010	6020	05/30/12 16:15	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/30/12 14:21	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 16:15	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 16:15	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/30/12 16:15	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 16:15	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 16:15	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 16:15	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/29/12 14:37	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/29/12 14:37	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/29/12 14:37	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/29/12 14:37	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/29/12 14:37	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/29/12 14:37	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/29/12 14:37	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	05/27/12 06:20	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	05/27/12 06:20	PL	118-74-1	



Analytical Laboratory Report

Lab Sample ID: S52597.05 (continued)

Sample Tag: SB-A5.4-DUP41

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/28/12 01:37	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/28/12 01:37	PL	84-66-2	
Dimethyl phthalate	2	ug/L	2	8270C	05/28/12 01:37	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/28/12 01:37	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	88-75-5	



Analytical Laboratory Report

Lab Sample ID: S52597.05 (continued)

Sample Tag: SB-A5.4-DUP41

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/28/12 01:37	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52597.06
Sample Tag: Trip Blank
Collected Date/Time: 05/22/2012 00:01
Matrix: Groundwater
COC Reference: 68862

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	06/05/12 17:48	JGH	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	05/24/12 19:17	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	05/24/12 19:17	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	05/24/12 19:17	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	05/24/12 19:17	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	05/24/12 19:17	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	05/24/12 19:17	WAT		



Analytical Laboratory Report

Lab Sample ID: S52597.06 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	05/24/12 19:17	WAT	96-12-8	



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Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

68862

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME			
Randy Christensen			
COMPANY			
ARCADIS			
ADDRESS			
10559 Citation Drive Suite 100			
CITY			STATE
Brighton			MI
			ZIP CODE
			48116
PHONE NO.		FAX NO.	P.O. NO.
810-225-1910			PO 125047
E-MAIL ADDRESS			QUOTE NO.
randy.christensen@arcadis-us.com			Task# 5

CONTACT NAME		Dave Favero		☐ SAME	
COMPANY		RACER TRUST			
ADDRESS		2930 Ecorse Road			
CITY		Ypsilanti		STATE	MI
				ZIP CODE	48198
PHONE NO.		313-486-9208		E-MAIL ADDRESS	
				dfavero@racertrust.org	
ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)					

[illegible]

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☒ Sampler	DATE 5/24/12	TIME 1837
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL <u>4.0</u>	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



Analytical Laboratory Report

Final Report

Report ID: S52609.01(02)

Generated on 06/01/2012

Replaces report S52609.01(01) generated on 05/31/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52609.01-S52609.09

Project: Lansing Plant #2 Project# B0064479.2012

Collected Date: 05/23/2012

Submitted Date/Time: 05/24/2012 09:15

Sampled by: M.Meckley

P.O. #: PO125047

All Analyses completed.

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Final Report

Sample Summary (9 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52609.01	SB-A5.2-NL114_1-2	Soil	05/23/2012 08:48
S52609.02	SB-A5.2-NL114_8.5-9.5	Soil	05/23/2012 09:17
S52609.03	SB-A5.2-NL114_16.5-17.5	Soil	05/23/2012 09:35
S52609.04	SB-A5.2-NL114_14.5-15.5	Soil	05/23/2012 09:40
S52609.05	SB-A5.2-NJ129_1-2	Soil	05/23/2012 10:00
S52609.06	SB-A5.2-NJ129_8.5-9.5	Soil	05/23/2012 10:17
S52609.07	SB-A5.2-NJ129_13.5-14.5	Soil	05/23/2012 10:30
S52609.08	SB-A5.2-NJ129_12.5-13	Soil	05/23/2012 10:40
S52609.09	SB-A5.2-DUP45	Soil	05/23/2012 00:01



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.01

Sample Tag: SB-A5.2-NL114_1-2

Collected Date/Time: 05/23/2012 08:48

Matrix: Soil

COC Reference: 68852

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/25/12 17:14	EMR		
Extraction, PCB	Completed			3550B	05/25/12 11:32	CCM		
Mercury Digestion	Completed			7471A	05/31/12 08:00	JRH		
Metal Digestion	Completed			3050B	05/30/12 12:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/30/12 15:55	PER	7440-36-0	
Arsenic	0.75	mg/kg	0.10	6020	05/30/12 15:55	PER	7440-38-2	
Barium	4.72	mg/kg	1.0	6020	05/30/12 15:55	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/30/12 15:55	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/30/12 15:55	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/30/12 15:55	PER	7440-43-9	
Chromium	1.11	mg/kg	0.21	6020	05/30/12 15:55	PER	7440-47-3	
Cobalt	1.35	mg/kg	0.21	6020	05/30/12 15:55	PER	7440-48-4	
Copper	1.31	mg/kg	0.21	6020	05/30/12 15:55	PER	7440-50-8	
Lead	1.70	mg/kg	0.21	6020	05/30/12 15:55	PER	7439-92-1	
Manganese	164	mg/kg	0.21	6020	05/30/12 15:55	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0056	7471A	05/31/12 13:36	JRT	7439-97-6	
Nickel	4.07	mg/kg	0.21	6020	05/30/12 15:55	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/30/12 15:55	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/30/12 15:55	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/30/12 15:55	PER	7440-28-0	
Vanadium	1.94	mg/kg	0.21	6020	05/30/12 15:55	PER	7440-62-2	
Zinc	2.69	mg/kg	1.0	6020	05/30/12 15:55	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/25/12 17:33	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/25/12 17:33	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/25/12 17:33	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/25/12 17:33	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/25/12 17:33	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/25/12 17:33	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/25/12 17:33	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	98-86-2	



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.01 (continued)

Sample Tag: SB-A5.2-NL114_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/30/12 16:29	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/30/12 16:29	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/30/12 16:29	PL	84-66-2	
Dimethyl phthalate	80	ug/kg	40	8270C	05/30/12 16:29	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/30/12 16:29	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/30/12 16:29	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.01 (continued)

Sample Tag: SB-A5.2-NL114_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/30/12 16:29	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 16:29	PL	88-06-2	



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.02
Sample Tag: SB-A5.2-NL114_8.5-9.5
Collected Date/Time: 05/23/2012 09:17
Matrix: Soil
COC Reference: 68852

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/25/12 17:14	EMR		
Extraction, PCB	Completed			3550B	05/25/12 11:32	CCM		
Mercury Digestion	Completed			7471A	05/31/12 08:00	JRH		
Metal Digestion	Completed			3050B	05/30/12 12:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/30/12 16:13	PER	7440-36-0	
Arsenic	1.50	mg/kg	0.10	6020	05/30/12 16:13	PER	7440-38-2	
Barium	29.2	mg/kg	1.0	6020	05/30/12 16:13	PER	7440-39-3	
Beryllium	0.20	mg/kg	0.20	6020	05/30/12 16:13	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/30/12 16:13	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	05/30/12 16:13	PER	7440-43-9	
Chromium	3.82	mg/kg	0.20	6020	05/30/12 16:13	PER	7440-47-3	
Cobalt	2.48	mg/kg	0.20	6020	05/30/12 16:13	PER	7440-48-4	
Copper	10.6	mg/kg	0.20	6020	05/30/12 16:13	PER	7440-50-8	
Lead	4.63	mg/kg	0.20	6020	05/30/12 16:13	PER	7439-92-1	
Manganese	242	mg/kg	0.20	6020	05/30/12 16:13	PER	7439-96-5	
Mercury	0.0080	mg/kg	0.0057	7471A	05/31/12 13:38	JRT	7439-97-6	
Nickel	7.29	mg/kg	0.20	6020	05/30/12 16:13	PER	7440-02-0	
Selenium	0.27	mg/kg	0.20	6020	05/30/12 16:13	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/30/12 16:13	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/30/12 16:13	PER	7440-28-0	
Vanadium	7.88	mg/kg	0.20	6020	05/30/12 16:13	PER	7440-62-2	
Zinc	13.9	mg/kg	1.0	6020	05/30/12 16:13	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/25/12 18:36	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/25/12 18:36	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/25/12 18:36	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/25/12 18:36	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/25/12 18:36	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/25/12 18:36	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/25/12 18:36	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	208-96-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.02 (continued)

Sample Tag: SB-A5.2-NL114_8.5-9.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	98-86-2	X
Anthracene	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	120-12-7	X
Atrazine	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	5,000	8270C	05/30/12 22:12	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	105-60-2	X
Carbazole	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	108-60-1	X
Chrysene	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	120-83-2	X
2,4-Dimethylphenol	48,000	ug/kg	2,000	8270C	05/30/12 22:12	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	5,000	8270C	05/30/12 22:12	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	5,000	8270C	05/30/12 22:12	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	5,000	8270C	05/30/12 22:12	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	206-44-0	X
Fluorene	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	193-39-5	X
Isophorone	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	5,000	8270C	05/30/12 22:12	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	88-74-4	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.02 (continued)

Sample Tag: SB-A5.2-NL114_8.5-9.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	5,000	8270C	05/30/12 22:12	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	85-01-8	X
Phenol	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	108-95-2	X
Pyrene	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	2,000	8270C	05/30/12 22:12	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.03

Sample Tag: SB-A5.2-NL114_16.5-17.5

Collected Date/Time: 05/23/2012 09:35

Matrix: Soil

COC Reference: 68852

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/25/12 17:14	EMR		
Extraction, PCB	Completed			3550B	05/25/12 11:32	CCM		
Mercury Digestion	Completed			7471A	05/31/12 08:00	JRH		
Metal Digestion	Completed			3050B	05/30/12 12:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/30/12 16:16	PER	7440-36-0	
Arsenic	0.76	mg/kg	0.10	6020	05/30/12 16:16	PER	7440-38-2	
Barium	6.86	mg/kg	1.0	6020	05/30/12 16:16	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/30/12 16:16	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/30/12 16:16	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/30/12 16:16	PER	7440-43-9	
Chromium	1.92	mg/kg	0.20	6020	05/30/12 16:16	PER	7440-47-3	
Cobalt	1.15	mg/kg	0.20	6020	05/30/12 16:16	PER	7440-48-4	
Copper	2.65	mg/kg	0.20	6020	05/30/12 16:16	PER	7440-50-8	
Lead	1.76	mg/kg	0.20	6020	05/30/12 16:16	PER	7439-92-1	
Manganese	120	mg/kg	0.20	6020	05/30/12 16:16	PER	7439-96-5	
Mercury	0.0060	mg/kg	0.0054	7471A	05/31/12 13:40	JRT	7439-97-6	
Nickel	3.76	mg/kg	0.20	6020	05/30/12 16:16	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/30/12 16:16	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/30/12 16:16	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/30/12 16:16	PER	7440-28-0	
Vanadium	3.10	mg/kg	0.20	6020	05/30/12 16:16	PER	7440-62-2	
Zinc	5.41	mg/kg	1.0	6020	05/30/12 16:16	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/25/12 17:44	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/25/12 17:44	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/25/12 17:44	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/25/12 17:44	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/25/12 17:44	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/25/12 17:44	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/25/12 17:44	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	98-86-2	



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.03 (continued)

Sample Tag: SB-A5.2-NL114_16.5-17.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/30/12 17:03	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/30/12 17:03	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/30/12 17:03	PL	84-66-2	
Dimethyl phthalate	50	ug/kg	40	8270C	05/30/12 17:03	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/30/12 17:03	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/30/12 17:03	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.03 (continued)

Sample Tag: SB-A5.2-NL114_16.5-17.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/30/12 17:03	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 17:03	PL	88-06-2	



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.04

Sample Tag: SB-A5.2-NL114_14.5-15.5

Collected Date/Time: 05/23/2012 09:40

Matrix: Soil

COC Reference: 68852

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/25/12 17:14	EMR		
Extraction, PCB	Completed			3550B	05/25/12 11:32	CCM		
Mercury Digestion	Completed			7471A	05/31/12 08:00	JRH		
Metal Digestion	Completed			3050B	05/30/12 12:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/30/12 16:18	PER	7440-36-0	
Arsenic	1.36	mg/kg	0.10	6020	05/30/12 16:18	PER	7440-38-2	
Barium	13.6	mg/kg	1.0	6020	05/30/12 16:18	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/30/12 16:18	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/30/12 16:18	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	05/30/12 16:18	PER	7440-43-9	
Chromium	3.13	mg/kg	0.20	6020	05/30/12 16:18	PER	7440-47-3	
Cobalt	2.48	mg/kg	0.20	6020	05/30/12 16:18	PER	7440-48-4	
Copper	9.41	mg/kg	0.20	6020	05/30/12 16:18	PER	7440-50-8	
Lead	4.44	mg/kg	0.20	6020	05/30/12 16:18	PER	7439-92-1	
Manganese	308	mg/kg	0.20	6020	05/30/12 16:18	PER	7439-96-5	
Mercury	0.0136	mg/kg	0.0056	7471A	05/31/12 13:42	JRT	7439-97-6	
Nickel	8.68	mg/kg	0.20	6020	05/30/12 16:18	PER	7440-02-0	
Selenium	0.34	mg/kg	0.20	6020	05/30/12 16:18	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/30/12 16:18	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/30/12 16:18	PER	7440-28-0	
Vanadium	5.36	mg/kg	0.20	6020	05/30/12 16:18	PER	7440-62-2	
Zinc	11.5	mg/kg	1.0	6020	05/30/12 16:18	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/25/12 17:54	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/25/12 17:54	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/25/12 17:54	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/25/12 17:54	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/25/12 17:54	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/25/12 17:54	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/25/12 17:54	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	208-96-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.04 (continued)

Sample Tag: SB-A5.2-NL114_14.5-15.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	98-86-2	X
Anthracene	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	120-12-7	X
Atrazine	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	800	8270C	05/30/12 21:04	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	105-60-2	X
Carbazole	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	108-60-1	X
Chrysene	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	120-83-2	X
2,4-Dimethylphenol	600	ug/kg	400	8270C	05/30/12 21:04	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	800	8270C	05/30/12 21:04	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	800	8270C	05/30/12 21:04	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	800	8270C	05/30/12 21:04	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	206-44-0	X
Fluorene	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	193-39-5	X
Isophorone	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	800	8270C	05/30/12 21:04	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	88-74-4	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.04 (continued)

Sample Tag: SB-A5.2-NL114_14.5-15.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	800	8270C	05/30/12 21:04	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	85-01-8	X
Phenol	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	108-95-2	X
Pyrene	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	400	8270C	05/30/12 21:04	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.05

Sample Tag: SB-A5.2-NJ129_1-2

Collected Date/Time: 05/23/2012 10:00

Matrix: Soil

COC Reference: 68852

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/25/12 17:14	EMR		
Extraction, PCB	Completed			3550B	05/25/12 11:32	CCM		
Mercury Digestion	Completed			7471A	05/31/12 08:00	JRH		
Metal Digestion	Completed			3050B	05/30/12 12:00	PER		

Inorganics

Total Solids	94	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/30/12 16:20	PER	7440-36-0	
Arsenic	0.88	mg/kg	0.10	6020	05/30/12 16:20	PER	7440-38-2	
Barium	6.73	mg/kg	1.0	6020	05/30/12 16:20	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/30/12 16:20	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/30/12 16:20	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/30/12 16:20	PER	7440-43-9	
Chromium	1.29	mg/kg	0.20	6020	05/30/12 16:20	PER	7440-47-3	
Cobalt	1.38	mg/kg	0.20	6020	05/30/12 16:20	PER	7440-48-4	
Copper	3.75	mg/kg	0.20	6020	05/30/12 16:20	PER	7440-50-8	
Lead	3.82	mg/kg	0.20	6020	05/30/12 16:20	PER	7439-92-1	
Manganese	130	mg/kg	0.20	6020	05/30/12 16:20	PER	7439-96-5	
Mercury	0.0068	mg/kg	0.0053	7471A	05/31/12 13:45	JRT	7439-97-6	
Nickel	3.59	mg/kg	0.20	6020	05/30/12 16:20	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/30/12 16:20	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/30/12 16:20	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/30/12 16:20	PER	7440-28-0	
Vanadium	1.98	mg/kg	0.20	6020	05/30/12 16:20	PER	7440-62-2	
Zinc	5.02	mg/kg	1.0	6020	05/30/12 16:20	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/25/12 18:04	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/25/12 18:04	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/25/12 18:04	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/25/12 18:04	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/25/12 18:04	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/25/12 18:04	JANB	11097-69-1	
PCB-1260	8	ug/kg	3	8082A	05/25/12 18:04	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	98-86-2	



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.05 (continued)

Sample Tag: SB-A5.2-NJ129_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/30/12 17:37	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/30/12 17:37	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/30/12 17:37	PL	84-66-2	
Dimethyl phthalate	110	ug/kg	40	8270C	05/30/12 17:37	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/30/12 17:37	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/30/12 17:37	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.05 (continued)

Sample Tag: SB-A5.2-NJ129_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/30/12 17:37	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 17:37	PL	88-06-2	



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.06
Sample Tag: SB-A5.2-NJ129_8.5-9.5
Collected Date/Time: 05/23/2012 10:17
Matrix: Soil
COC Reference: 68852

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/25/12 17:14	EMR		
Extraction, PCB	Completed			3550B	05/25/12 11:32	CCM		
Mercury Digestion	Completed			7471A	05/31/12 08:00	JRH		
Metal Digestion	Completed			3050B	05/30/12 12:00	PER		

Inorganics

Total Solids	85	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/30/12 16:22	PER	7440-36-0	
Arsenic	1.05	mg/kg	0.10	6020	05/30/12 16:22	PER	7440-38-2	
Barium	3.83	mg/kg	1.0	6020	05/30/12 16:22	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/30/12 16:22	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/30/12 16:22	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/30/12 16:22	PER	7440-43-9	
Chromium	1.65	mg/kg	0.20	6020	05/30/12 16:22	PER	7440-47-3	
Cobalt	2.03	mg/kg	0.20	6020	05/30/12 16:22	PER	7440-48-4	
Copper	4.42	mg/kg	0.20	6020	05/30/12 16:22	PER	7440-50-8	
Lead	3.09	mg/kg	0.20	6020	05/30/12 16:22	PER	7439-92-1	
Manganese	134	mg/kg	0.20	6020	05/30/12 16:22	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0058	7471A	05/31/12 13:47	JRT	7439-97-6	
Nickel	4.83	mg/kg	0.20	6020	05/30/12 16:22	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/30/12 16:22	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/30/12 16:22	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/30/12 16:22	PER	7440-28-0	
Vanadium	2.06	mg/kg	0.20	6020	05/30/12 16:22	PER	7440-62-2	
Zinc	10.2	mg/kg	1.0	6020	05/30/12 16:22	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	20	8082A	05/25/12 18:46	JANB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	20	8082A	05/25/12 18:46	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	20	8082A	05/25/12 18:46	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	20	8082A	05/25/12 18:46	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	20	8082A	05/25/12 18:46	JANB	12672-29-6	Y
PCB-1254	120	ug/kg	20	8082A	05/25/12 18:46	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	20	8082A	05/25/12 18:46	JANB	11096-82-5	Y

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	83-32-9	X
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Y-Elevated reporting limit due to high target concentration

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.06 (continued)

Sample Tag: SB-A5.2-NJ129_8.5-9.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acenaphthylene	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	98-86-2	X
Anthracene	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	120-12-7	X
Atrazine	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	05/30/12 21:38	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	105-60-2	X
Carbazole	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	108-60-1	X
Chrysene	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	05/30/12 21:38	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	05/30/12 21:38	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	05/30/12 21:38	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	206-44-0	X
Fluorene	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	193-39-5	X
Isophorone	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	05/30/12 21:38	PL	3/4-Cresol	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.06 (continued)

Sample Tag: SB-A5.2-NJ129_8.5-9.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	05/30/12 21:38	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	85-01-8	X
Phenol	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	108-95-2	X
Pyrene	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	1,000	8270C	05/30/12 21:38	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.07

Sample Tag: SB-A5.2-NJ129_13.5-14.5

Collected Date/Time: 05/23/2012 10:30

Matrix: Soil

COC Reference: 68852

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/25/12 17:18	EMR		
Extraction, PCB	Completed			3550B	05/25/12 11:32	CCM		
Mercury Digestion	Completed			7471A	05/31/12 08:00	JRH		
Metal Digestion	Completed			3050B	05/30/12 12:00	PER		

Inorganics

Total Solids	85	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	05/30/12 16:25	PER	7440-36-0	
Arsenic	2.10	mg/kg	0.10	6020	05/30/12 16:25	PER	7440-38-2	
Barium	13.4	mg/kg	1.0	6020	05/30/12 16:25	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/30/12 16:25	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/30/12 16:25	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/30/12 16:25	PER	7440-43-9	
Chromium	2.07	mg/kg	0.21	6020	05/30/12 16:25	PER	7440-47-3	
Cobalt	2.75	mg/kg	0.21	6020	05/30/12 16:25	PER	7440-48-4	
Copper	5.82	mg/kg	0.21	6020	05/30/12 16:25	PER	7440-50-8	
Lead	3.12	mg/kg	0.21	6020	05/30/12 16:25	PER	7439-92-1	
Manganese	262	mg/kg	0.21	6020	05/30/12 16:25	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0058	7471A	05/31/12 13:49	JRT	7439-97-6	
Nickel	6.65	mg/kg	0.21	6020	05/30/12 16:25	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/30/12 16:25	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/30/12 16:25	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/30/12 16:25	PER	7440-28-0	
Vanadium	3.64	mg/kg	0.21	6020	05/30/12 16:25	PER	7440-62-2	
Zinc	7.80	mg/kg	1.0	6020	05/30/12 16:25	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/25/12 18:15	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/25/12 18:15	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/25/12 18:15	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/25/12 18:15	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/25/12 18:15	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/25/12 18:15	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/25/12 18:15	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	98-86-2	



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.07 (continued)

Sample Tag: SB-A5.2-NJ129_13.5-14.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/30/12 15:38	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/30/12 15:38	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/30/12 15:38	PL	84-66-2	
Dimethyl phthalate	50	ug/kg	40	8270C	05/30/12 15:38	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/30/12 15:38	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/30/12 15:38	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.07 (continued)

Sample Tag: SB-A5.2-NJ129_13.5-14.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/30/12 15:38	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 15:38	PL	88-06-2	



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.08

Sample Tag: SB-A5.2-NJ129_12.5-13

Collected Date/Time: 05/23/2012 10:40

Matrix: Soil

COC Reference: 68852

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/25/12 17:18	EMR		
Extraction, PCB	Completed			3550B	05/25/12 11:32	CCM		
Mercury Digestion	Completed			7471A	05/31/12 08:00	JRH		
Metal Digestion	Completed			3050B	05/30/12 12:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/30/12 16:27	PER	7440-36-0	
Arsenic	1.20	mg/kg	0.10	6020	05/30/12 16:27	PER	7440-38-2	
Barium	25.3	mg/kg	1.0	6020	05/30/12 16:27	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/30/12 16:27	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/30/12 16:27	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/30/12 16:27	PER	7440-43-9	
Chromium	2.63	mg/kg	0.20	6020	05/30/12 16:27	PER	7440-47-3	
Cobalt	2.28	mg/kg	0.20	6020	05/30/12 16:27	PER	7440-48-4	
Copper	8.45	mg/kg	0.20	6020	05/30/12 16:27	PER	7440-50-8	
Lead	6.00	mg/kg	0.20	6020	05/30/12 16:27	PER	7439-92-1	
Manganese	191	mg/kg	0.20	6020	05/30/12 16:27	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0058	7471A	05/31/12 13:52	JRT	7439-97-6	
Nickel	5.27	mg/kg	0.20	6020	05/30/12 16:27	PER	7440-02-0	
Selenium	0.22	mg/kg	0.20	6020	05/30/12 16:27	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/30/12 16:27	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/30/12 16:27	PER	7440-28-0	
Vanadium	5.56	mg/kg	0.20	6020	05/30/12 16:27	PER	7440-62-2	
Zinc	11.2	mg/kg	1.0	6020	05/30/12 16:27	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/25/12 18:57	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/25/12 18:57	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/25/12 18:57	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/25/12 18:57	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/25/12 18:57	JANB	12672-29-6	
PCB-1254	60	ug/kg	3	8082A	05/25/12 18:57	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/25/12 18:57	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	208-96-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.08 (continued)

Sample Tag: SB-A5.2-NJ129_12.5-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	98-86-2	X
Anthracene	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	120-12-7	X
Atrazine	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	1,000	8270C	05/30/12 21:02	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	105-60-2	X
Carbazole	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	108-60-1	X
Chrysene	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	1,000	8270C	05/30/12 21:02	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	1,000	8270C	05/30/12 21:02	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	1,000	8270C	05/30/12 21:02	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	206-44-0	X
Fluorene	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	193-39-5	X
Isophorone	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	1,000	8270C	05/30/12 21:02	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	88-74-4	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.08 (continued)

Sample Tag: SB-A5.2-NJ129_12.5-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	1,000	8270C	05/30/12 21:02	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	85-01-8	X
Phenol	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	108-95-2	X
Pyrene	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	600	8270C	05/30/12 21:02	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.09
Sample Tag: SB-A5.2-DUP45
Collected Date/Time: 05/23/2012 00:01
Matrix: Soil
COC Reference: 68852

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/25/12 17:18	EMR		
Extraction, PCB	Completed			3550B	05/25/12 11:32	CCM		
Mercury Digestion	Completed			7471A	05/31/12 08:00	JRH		
Metal Digestion	Completed			3050B	05/30/12 12:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/24/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/30/12 16:29	PER	7440-36-0	
Arsenic	2.98	mg/kg	0.10	6020	05/30/12 16:29	PER	7440-38-2	
Barium	9.51	mg/kg	1.0	6020	05/30/12 16:29	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/30/12 16:29	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/30/12 16:29	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/30/12 16:29	PER	7440-43-9	
Chromium	2.35	mg/kg	0.20	6020	05/30/12 16:29	PER	7440-47-3	
Cobalt	3.23	mg/kg	0.20	6020	05/30/12 16:29	PER	7440-48-4	
Copper	5.04	mg/kg	0.20	6020	05/30/12 16:29	PER	7440-50-8	
Lead	2.88	mg/kg	0.20	6020	05/30/12 16:29	PER	7439-92-1	
Manganese	222	mg/kg	0.20	6020	05/30/12 16:29	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0057	7471A	05/31/12 13:54	JRT	7439-97-6	
Nickel	7.54	mg/kg	0.20	6020	05/30/12 16:29	PER	7440-02-0	
Selenium	0.20	mg/kg	0.20	6020	05/30/12 16:29	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/30/12 16:29	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/30/12 16:29	PER	7440-28-0	
Vanadium	3.25	mg/kg	0.20	6020	05/30/12 16:29	PER	7440-62-2	
Zinc	7.96	mg/kg	1.0	6020	05/30/12 16:29	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/25/12 18:25	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/25/12 18:25	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/25/12 18:25	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/25/12 18:25	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/25/12 18:25	JANB	12672-29-6	
PCB-1254	6	ug/kg	3	8082A	05/25/12 18:25	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/25/12 18:25	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	98-86-2	



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.09 (continued)

Sample Tag: SB-A5.2-DUP45

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/30/12 16:07	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/30/12 16:07	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/30/12 16:07	PL	84-66-2	
Dimethyl phthalate	110	ug/kg	40	8270C	05/30/12 16:07	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/30/12 16:07	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/30/12 16:07	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Final Report

Lab Sample ID: S52609.09 (continued)

Sample Tag: SB-A5.2-DUP45

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/30/12 16:07	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 16:07	PL	88-06-2	

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME **Randy Christensen**
COMPANY **ARCADIS**
ADDRESS **10559 Citation Drive Suite 100**
CITY **Brighton** STATE **MI** ZIP CODE **48116**
PHONE NO. **810-225-1910** FAX NO. **P.O. NO. PO 125077**
E-MAIL ADDRESS **randy.christensen@arcadis-us.com** QUOTE NO. **Task# 5**

CONTACT NAME **Dave Favero** ☐ SAME
COMPANY **RACER TRUST**
ADDRESS **2930 Ecorse Road**
CITY **Ypsilanti** STATE **MI** ZIP CODE **48198**
PHONE NO. **313-486-9208** E-MAIL ADDRESS **dfavero@racetrust.org**

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME **Lansing Plant 2 Project# B0064479 2012** SAMPLER(S) - PLEASE PRINT/SIGN NAME **Megan Mackley**
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER **see note**
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW-GROUNDWATER WW-WASTEWATER S-SOIL L-LIQUID SD-SOLID
SL-SLUDGE DW-DRINKING WATER O-OIL WP-WIPE A-AIR W-WASTE

Containers & Preservatives

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	ACI	HNO ₃	H ₂ SO ₄	NaOH	H ₂ O ₂	OTHER
	DATE	TIME										
57609.01	5/23/12	0848	SB-AS.2-NL114-1-2	S	1	/						
02		0917	SB-AS.2-NL114-8.5-9.5	S	1	/						
03		0935	SB-AS.2-NL114-16.5-17.5	S	1	/						
04		0940	SB-AS.2-NL114-14.5-15.5	S	1	/						
05		1000	SB-AS.2-NJ129-1-2	S	1	/						
06		1017	SB-AS.2-NJ129-8.5-9.5	S	1	/						
07		1030	SB-AS.2-NJ129-12.5-14.5	S	1	/						
08		1040	SB-AS.2-NJ129-12.5-13	S	1	/						
09			SB-AS.2-DUP45	S	1	/						

VOCs/1,4 Dioxane

SVOCs

PCBs

Metals (wHg)

Certifications

- ☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations

- ☐ Detroit ☐ New York

☒ Other **Lansing**

Special Instructions

5 day TAT on PCBs

RELINQUISHED BY: **Megan Mackley** ☒ Sampler DATE **5/23/12** TIME **1705**
SIGNATURE/ORGANIZATION **Megan Mackley**
RELINQUISHED BY: **SW** DATE **5-24-12** TIME **845**
SIGNATURE/ORGANIZATION **SW**
RELINQUISHED BY: DATE TIME
SIGNATURE/ORGANIZATION
RELINQUISHED BY: DATE TIME
SIGNATURE/ORGANIZATION

RELINQUISHED BY: DATE TIME
SIGNATURE/ORGANIZATION **Pard**
RELINQUISHED BY: DATE **5-24-12** TIME **0915**
SIGNATURE/ORGANIZATION
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
NOTES: TEMP. ON ARRIVAL **4.3**
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS



Analytical Laboratory Report

Report ID: S52618.01(01)
Generated on 06/06/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52618.01-S52618.13
Project: Lansing Plant #2 Project# B0064479.2012
Collected Date: 05/23/2012
Submitted Date/Time: 05/24/2012 09:15
Sampled by: M.Meckly
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)
Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (13 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52618.01	SB-A8-LF155A_0-1	Soil	05/23/2012 11:43
S52618.02	SB-A8-LF155A_6-7	Soil	05/23/2012 11:55
S52618.03	SB-A8-LF155A_6-10	Groundwater	05/23/2012 12:12
S52618.04	SB-A8-DUP47	Soil	05/23/2012 00:01
S52618.05	SB-A8-LL165_1-2	Soil	05/23/2012 13:10
S52618.06	SB-A8-LL165_7-8	Soil	05/23/2012 13:20
S52618.07	SB-A8-LL195_0-1	Soil	05/23/2012 13:55
S52618.08	SB-A5.4-LZ195_8-9	Soil	05/23/2012 14:15
S52618.09	SB-A5.4-LZ195_8-9 MS	Soil	05/23/2012 14:15
S52618.10	SB-A5.4-LZ195_8-9 MSD	Soil	05/23/2012 14:15
S52618.11	SB-A5.4-LZ195_4-8	Groundwater	05/23/2012 14:38
S52618.12	Trip Blank	Water	05/23/2012 00:01
S52618.13	SB-A5.4-LZ195_12-13	Soil	05/23/2012 15:25



Analytical Laboratory Report

Lab Sample ID: S52618.01
Sample Tag: SB-A8-LF155A_0-1
Collected Date/Time: 05/23/2012 11:43
Matrix: Soil
COC Reference: 68851

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/25/12 17:20	EMR		
Extraction, PCB	Completed			3550B	05/30/12 16:36	CCM		
Mercury Digestion	Completed			7471A	05/31/12 13:30	JRH		
Metal Digestion	Completed			3050B	05/30/12 13:00	PER		

Inorganics

Total Solids	95	%	1	Std M 2540 B	05/25/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/31/12 14:50	PER	7440-36-0	
Arsenic	0.94	mg/kg	0.10	6020	05/31/12 14:50	PER	7440-38-2	
Barium	7.61	mg/kg	1.0	6020	05/31/12 14:50	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/31/12 14:50	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/31/12 14:50	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/31/12 14:50	PER	7440-43-9	
Chromium	1.33	mg/kg	0.20	6020	05/31/12 14:50	PER	7440-47-3	
Cobalt	3.00	mg/kg	0.20	6020	05/31/12 14:50	PER	7440-48-4	
Copper	3.16	mg/kg	0.20	6020	05/31/12 14:50	PER	7440-50-8	
Lead	2.42	mg/kg	0.20	6020	05/31/12 14:50	PER	7439-92-1	
Manganese	176	mg/kg	0.20	6020	05/31/12 14:50	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0053	7471A	05/31/12 16:09	JRT	7439-97-6	
Nickel	5.57	mg/kg	0.20	6020	05/31/12 14:50	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/31/12 14:50	PER	7782-49-2	
Silver	0.24	mg/kg	0.10	6020	05/31/12 14:50	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/31/12 14:50	PER	7440-28-0	
Vanadium	2.37	mg/kg	0.20	6020	05/31/12 14:50	PER	7440-62-2	
Zinc	5.27	mg/kg	1.0	6020	05/31/12 14:50	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/30/12 16:56	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/30/12 16:56	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/30/12 16:56	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/30/12 16:56	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/30/12 16:56	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/30/12 16:56	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/30/12 16:56	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52618.01 (continued)

Sample Tag: SB-A8-LF155A_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/30/12 15:16	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/30/12 15:16	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/30/12 15:16	PL	84-66-2	
Dimethyl phthalate	120	ug/kg	40	8270C	05/30/12 15:16	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/30/12 15:16	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/30/12 15:16	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52618.01 (continued)

Sample Tag: SB-A8-LF155A_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/30/12 15:16	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 15:16	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52618.02
Sample Tag: SB-A8-LF155A_6-7
Collected Date/Time: 05/23/2012 11:55
Matrix: Soil
COC Reference: 68851

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/25/12 17:20	EMR		
Extraction, PCB	Completed			3550B	05/30/12 16:36	CCM		
Mercury Digestion	Completed			7471A	05/31/12 13:30	JRH		
Metal Digestion	Completed			3050B	05/30/12 13:00	PER		

Inorganics

Total Solids	80	%	1	Std M 2540 B	05/25/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/31/12 14:52	PER	7440-36-0	
Arsenic	0.71	mg/kg	0.10	6020	05/31/12 14:52	PER	7440-38-2	
Barium	17.1	mg/kg	1.0	6020	05/31/12 14:52	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/31/12 14:52	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	05/31/12 14:52	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/31/12 14:52	PER	7440-43-9	
Chromium	1.75	mg/kg	0.21	6020	05/31/12 14:52	PER	7440-47-3	
Cobalt	2.83	mg/kg	0.21	6020	05/31/12 14:52	PER	7440-48-4	
Copper	2.01	mg/kg	0.21	6020	05/31/12 14:52	PER	7440-50-8	
Lead	2.86	mg/kg	0.21	6020	05/31/12 14:52	PER	7439-92-1	
Manganese	237	mg/kg	0.21	6020	05/31/12 14:52	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0064	7471A	05/31/12 16:11	JRT	7439-97-6	
Nickel	7.78	mg/kg	0.21	6020	05/31/12 14:52	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/31/12 14:52	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/31/12 14:52	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/31/12 14:52	PER	7440-28-0	
Vanadium	2.98	mg/kg	0.21	6020	05/31/12 14:52	PER	7440-62-2	
Zinc	5.07	mg/kg	1.0	6020	05/31/12 14:52	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/30/12 17:07	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/30/12 17:07	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/30/12 17:07	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/30/12 17:07	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/30/12 17:07	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/30/12 17:07	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/30/12 17:07	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52618.02 (continued)

Sample Tag: SB-A8-LF155A_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/30/12 15:50	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/30/12 15:50	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/30/12 15:50	PL	84-66-2	
Dimethyl phthalate	190	ug/kg	40	8270C	05/30/12 15:50	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/30/12 15:50	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/30/12 15:50	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52618.02 (continued)

Sample Tag: SB-A8-LF155A_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/30/12 15:50	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 15:50	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52618.03
Sample Tag: SB-A8-LF155A_6-10
Collected Date/Time: 05/23/2012 12:12
Matrix: Groundwater
COC Reference: 68851

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.3	IR
1	125ml Plastic	HNO3	Yes	4.3	IR
2	40ml Glass	HCL	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/29/12 22:20	EMR		
Mercury Digestion	Completed			7471A	05/30/12 12:00	JRH		
Metal Digestion	Completed			3015A	05/30/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 17:50	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 17:50	SLS	7440-38-2	
Barium, Dissolved	0.047	mg/L	0.010	6020	05/30/12 17:50	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/31/12 14:53	SLS	7440-41-7	
Boron, Dissolved	0.06	mg/L	0.04	6020	05/30/12 17:50	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/30/12 17:50	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 17:50	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 17:50	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 17:50	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 17:50	SLS	7439-92-1	
Manganese, Dissolved	0.028	mg/L	0.010	6020	05/30/12 17:50	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/30/12 15:02	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 17:50	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 17:50	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/30/12 17:50	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 17:50	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 17:50	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 17:50	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/01/12 05:21	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/01/12 05:21	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	205-99-2	



Analytical Laboratory Report

Lab Sample ID: S52618.03 (continued)

Sample Tag: SB-A8-LF155A_6-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/31/12 20:59	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/31/12 20:59	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	05/31/12 20:59	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	05/31/12 20:59	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	129-00-0	



Analytical Laboratory Report

Lab Sample ID: S52618.03 (continued)

Sample Tag: SB-A8-LF155A_6-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/31/12 20:59	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	05/30/12 20:33	WAT	123-91-1	



Analytical Laboratory Report

Lab Sample ID: S52618.04
Sample Tag: SB-A8-DUP47
Collected Date/Time: 05/23/2012 00:01
Matrix: Soil
COC Reference: 68851

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/25/12 17:20	EMR		
Extraction, PCB	Completed			3550B	05/30/12 16:36	CCM		
Mercury Digestion	Completed			7471A	05/31/12 13:30	JRH		
Metal Digestion	Completed			3050B	05/30/12 13:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	05/25/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/31/12 14:53	PER	7440-36-0	
Arsenic	0.75	mg/kg	0.10	6020	05/31/12 14:53	PER	7440-38-2	
Barium	5.53	mg/kg	1.0	6020	05/31/12 14:53	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/31/12 14:53	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/31/12 14:53	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/31/12 14:53	PER	7440-43-9	
Chromium	2.24	mg/kg	0.20	6020	05/31/12 14:53	PER	7440-47-3	
Cobalt	1.39	mg/kg	0.20	6020	05/31/12 14:53	PER	7440-48-4	
Copper	2.56	mg/kg	0.20	6020	05/31/12 14:53	PER	7440-50-8	
Lead	2.45	mg/kg	0.20	6020	05/31/12 14:53	PER	7439-92-1	
Manganese	142	mg/kg	0.20	6020	05/31/12 14:53	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0054	7471A	05/31/12 16:13	JRT	7439-97-6	
Nickel	4.55	mg/kg	0.20	6020	05/31/12 14:53	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/31/12 14:53	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/31/12 14:53	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/31/12 14:53	PER	7440-28-0	
Vanadium	1.94	mg/kg	0.20	6020	05/31/12 14:53	PER	7440-62-2	
Zinc	4.44	mg/kg	1.0	6020	05/31/12 14:53	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/30/12 17:17	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/30/12 17:17	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/30/12 17:17	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/30/12 17:17	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/30/12 17:17	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/30/12 17:17	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/30/12 17:17	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52618.04 (continued)

Sample Tag: SB-A8-DUP47

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/30/12 16:25	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/30/12 16:25	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/30/12 16:25	PL	84-66-2	
Dimethyl phthalate	130	ug/kg	40	8270C	05/30/12 16:25	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/30/12 16:25	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/30/12 16:25	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52618.04 (continued)

Sample Tag: SB-A8-DUP47

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	621-64-7	
N-Nitrosodiphenylamine	60	ug/kg	40	8270C	05/30/12 16:25	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/30/12 16:25	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 16:25	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52618.05
Sample Tag: SB-A8-LL165_1-2
Collected Date/Time: 05/23/2012 13:10
Matrix: Soil
COC Reference: 68851

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/25/12 17:20	EMR		
Extraction, PCB	Completed			3550B	05/30/12 16:36	CCM		
Mercury Digestion	Completed			7471A	05/31/12 13:30	JRH		
Metal Digestion	Completed			3050B	05/30/12 14:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/25/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/31/12 15:35	PER	7440-36-0	
Arsenic	1.14	mg/kg	0.10	6020	05/31/12 15:35	PER	7440-38-2	
Barium	12.0	mg/kg	1.0	6020	05/31/12 15:35	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/31/12 15:35	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/31/12 15:35	PER	7440-42-8	
Cadmium	0.12	mg/kg	0.10	6020	05/31/12 15:35	PER	7440-43-9	
Chromium	1.71	mg/kg	0.20	6020	05/31/12 15:35	PER	7440-47-3	
Cobalt	1.30	mg/kg	0.20	6020	05/31/12 15:35	PER	7440-48-4	
Copper	3.98	mg/kg	0.20	6020	05/31/12 15:35	PER	7440-50-8	
Lead	3.99	mg/kg	0.20	6020	05/31/12 15:35	PER	7439-92-1	
Manganese	131	mg/kg	0.20	6020	05/31/12 15:35	PER	7439-96-5	
Mercury	0.0079	mg/kg	0.0054	7471A	05/31/12 16:15	JRT	7439-97-6	
Nickel	3.90	mg/kg	0.20	6020	05/31/12 15:35	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/31/12 15:35	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/31/12 15:35	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/31/12 15:35	PER	7440-28-0	
Vanadium	5.39	mg/kg	0.20	6020	05/31/12 15:35	PER	7440-62-2	
Zinc	9.16	mg/kg	1.0	6020	05/31/12 15:35	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/30/12 17:28	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/30/12 17:28	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/30/12 17:28	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/30/12 17:28	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/30/12 17:28	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/30/12 17:28	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/30/12 17:28	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52618.05 (continued)

Sample Tag: SB-A8-LL165_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/30/12 16:59	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/30/12 16:59	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/30/12 16:59	PL	84-66-2	
Dimethyl phthalate	180	ug/kg	40	8270C	05/30/12 16:59	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/30/12 16:59	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/30/12 16:59	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52618.05 (continued)

Sample Tag: SB-A8-LL165_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/30/12 16:59	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 16:59	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52618.06
Sample Tag: SB-A8-LL165_7-8
Collected Date/Time: 05/23/2012 13:20
Matrix: Soil
COC Reference: 68851

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/25/12 17:20	EMR		
Extraction, PCB	Completed			3550B	05/30/12 16:36	CCM		
Mercury Digestion	Completed			7471A	05/31/12 13:30	JRH		
Metal Digestion	Completed			3050B	05/30/12 14:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/25/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/31/12 15:39	PER	7440-36-0	
Arsenic	0.87	mg/kg	0.10	6020	05/31/12 15:39	PER	7440-38-2	
Barium	5.46	mg/kg	1.0	6020	05/31/12 15:39	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/31/12 15:39	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	05/31/12 15:39	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/31/12 15:39	PER	7440-43-9	
Chromium	1.27	mg/kg	0.20	6020	05/31/12 15:39	PER	7440-47-3	
Cobalt	1.55	mg/kg	0.20	6020	05/31/12 15:39	PER	7440-48-4	
Copper	2.59	mg/kg	0.20	6020	05/31/12 15:39	PER	7440-50-8	
Lead	2.03	mg/kg	0.20	6020	05/31/12 15:39	PER	7439-92-1	
Manganese	154	mg/kg	0.20	6020	05/31/12 15:39	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0055	7471A	05/31/12 16:18	JRT	7439-97-6	
Nickel	5.40	mg/kg	0.20	6020	05/31/12 15:39	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	05/31/12 15:39	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/31/12 15:39	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/31/12 15:39	PER	7440-28-0	
Vanadium	1.67	mg/kg	0.20	6020	05/31/12 15:39	PER	7440-62-2	
Zinc	4.55	mg/kg	1.0	6020	05/31/12 15:39	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/30/12 17:38	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/30/12 17:38	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/30/12 17:38	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/30/12 17:38	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/30/12 17:38	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/30/12 17:38	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/30/12 17:38	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52618.06 (continued)

Sample Tag: SB-A8-LL165_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/30/12 17:34	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/30/12 17:34	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/30/12 17:34	PL	84-66-2	
Dimethyl phthalate	70	ug/kg	40	8270C	05/30/12 17:34	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/30/12 17:34	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/30/12 17:34	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52618.06 (continued)

Sample Tag: SB-A8-LL165_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	621-64-7	
N-Nitrosodiphenylamine	110	ug/kg	40	8270C	05/30/12 17:34	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/30/12 17:34	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 17:34	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52618.07
Sample Tag: SB-A8-LL195_0-1
Collected Date/Time: 05/23/2012 13:55
Matrix: Soil
COC Reference: 68851

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/25/12 17:20	EMR		
Extraction, PCB	Completed			3550B	05/30/12 16:36	CCM		
Mercury Digestion	Completed			7471A	05/31/12 13:30	JRH		
Metal Digestion	Completed			3050B	05/30/12 14:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/25/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/31/12 15:41	PER	7440-36-0	
Arsenic	2.22	mg/kg	0.10	6020	05/31/12 15:41	PER	7440-38-2	
Barium	18.8	mg/kg	1.0	6020	05/31/12 15:41	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	05/31/12 15:41	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	05/31/12 15:41	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/31/12 15:41	PER	7440-43-9	
Chromium	1.88	mg/kg	0.21	6020	05/31/12 15:41	PER	7440-47-3	
Cobalt	2.76	mg/kg	0.21	6020	05/31/12 15:41	PER	7440-48-4	
Copper	5.51	mg/kg	0.21	6020	05/31/12 15:41	PER	7440-50-8	
Lead	9.21	mg/kg	0.21	6020	05/31/12 15:41	PER	7439-92-1	
Manganese	224	mg/kg	0.21	6020	05/31/12 15:41	PER	7439-96-5	
Mercury	0.0217	mg/kg	0.0055	7471A	05/31/12 16:20	JRT	7439-97-6	
Nickel	6.36	mg/kg	0.21	6020	05/31/12 15:41	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	05/31/12 15:41	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/31/12 15:41	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	05/31/12 15:41	PER	7440-28-0	
Vanadium	3.15	mg/kg	0.21	6020	05/31/12 15:41	PER	7440-62-2	
Zinc	9.53	mg/kg	1.0	6020	05/31/12 15:41	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	28	8082A	05/31/12 14:15	JANB	12674-11-2	X
PCB-1242	Not detected	ug/kg	28	8082A	05/31/12 14:15	JANB	53469-21-9	X
PCB-1221	Not detected	ug/kg	28	8082A	05/31/12 14:15	JANB	11104-28-2	X
PCB-1232	Not detected	ug/kg	28	8082A	05/31/12 14:15	JANB	11141-16-5	X
PCB-1248	Not detected	ug/kg	28	8082A	05/31/12 14:15	JANB	12672-29-6	X
PCB-1254	Not detected	ug/kg	28	8082A	05/31/12 14:15	JANB	11097-69-1	X
PCB-1260	Not detected	ug/kg	28	8082A	05/31/12 14:15	JANB	11096-82-5	X

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	83-32-9	
Acenaphthylene	290	ug/kg	70	8270C	05/30/12 21:34	PL	208-96-8	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52618.07 (continued)

Sample Tag: SB-A8-LL195_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	98-86-2	
Anthracene	140	ug/kg	70	8270C	05/30/12 21:34	PL	120-12-7	
Atrazine	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	100	8270C	05/30/12 21:34	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	100-52-7	
Benzo(a)anthracene	1,840	ug/kg	70	8270C	05/30/12 21:34	PL	56-55-3	
Benzo(a)pyrene	1,760	ug/kg	70	8270C	05/30/12 21:34	PL	50-32-8	
Benzo(b)fluoranthene	3,390	ug/kg	70	8270C	05/30/12 21:34	PL	205-99-2	p
Benzo(ghi)perylene	530	ug/kg	70	8270C	05/30/12 21:34	PL	191-24-2	
Benzo(k)fluoranthene	3,470	ug/kg	70	8270C	05/30/12 21:34	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	105-60-2	
Carbazole	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	108-60-1	
Chrysene	1,690	ug/kg	70	8270C	05/30/12 21:34	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	534-52-1	
Dibenzo(ah)anthracene	300	ug/kg	100	8270C	05/30/12 21:34	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	100	8270C	05/30/12 21:34	PL	84-66-2	
Dimethyl phthalate	110	ug/kg	70	8270C	05/30/12 21:34	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	100	8270C	05/30/12 21:34	PL	117-81-7	
Fluoranthene	1,750	ug/kg	70	8270C	05/30/12 21:34	PL	206-44-0	
Fluorene	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	670	ug/kg	70	8270C	05/30/12 21:34	PL	193-39-5	
Isophorone	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	78-59-1	
2-Methylnaphthalene	90	ug/kg	70	8270C	05/30/12 21:34	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	100	8270C	05/30/12 21:34	PL	3/4-Cresol	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52618.07 (continued)

Sample Tag: SB-A8-LL195_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	86-30-6	
Naphthalene	90	ug/kg	70	8270C	05/30/12 21:34	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	100	8270C	05/30/12 21:34	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	87-86-5	
Phenanthrene	350	ug/kg	70	8270C	05/30/12 21:34	PL	85-01-8	
Phenol	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	108-95-2	
Pyrene	1,750	ug/kg	70	8270C	05/30/12 21:34	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	70	8270C	05/30/12 21:34	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52618.08
Sample Tag: SB-A5.4-LZ195_8-9
Collected Date/Time: 05/23/2012 14:15
Matrix: Soil
COC Reference: 68851

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/25/12 17:20	EMR		
Extraction, PCB	Completed			3550B	05/30/12 16:36	CCM		
Mercury Digestion	Completed			7471A	05/31/12 13:30	JRH		
Metal Digestion	Completed			3050B	05/30/12 14:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/25/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/31/12 15:45	PER	7440-36-0	
Arsenic	2.41	mg/kg	0.10	6020	05/31/12 15:45	PER	7440-38-2	
Barium	18.8	mg/kg	1.0	6020	05/31/12 15:45	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/31/12 15:45	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/31/12 15:45	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/31/12 15:45	PER	7440-43-9	
Chromium	2.66	mg/kg	0.20	6020	05/31/12 15:45	PER	7440-47-3	
Cobalt	2.24	mg/kg	0.20	6020	05/31/12 15:45	PER	7440-48-4	
Copper	7.75	mg/kg	0.20	6020	05/31/12 15:45	PER	7440-50-8	
Lead	3.79	mg/kg	0.20	6020	05/31/12 15:45	PER	7439-92-1	
Manganese	215	mg/kg	0.20	6020	05/31/12 15:45	PER	7439-96-5	
Mercury	0.0079	mg/kg	0.0057	7471A	05/31/12 16:24	JRT	7439-97-6	
Nickel	7.51	mg/kg	0.20	6020	05/31/12 15:45	PER	7440-02-0	
Selenium	0.29	mg/kg	0.20	6020	05/31/12 15:45	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/31/12 15:45	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/31/12 15:45	PER	7440-28-0	
Vanadium	4.42	mg/kg	0.20	6020	05/31/12 15:45	PER	7440-62-2	
Zinc	12.7	mg/kg	1.0	6020	05/31/12 15:45	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/30/12 15:49	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/30/12 15:49	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/30/12 15:49	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/30/12 15:49	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/30/12 15:49	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/30/12 15:49	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/30/12 15:49	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52618.08 (continued)

Sample Tag: SB-A5.4-LZ195_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	05/30/12 18:08	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	05/30/12 18:08	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	05/30/12 18:08	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	05/30/12 18:08	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	05/30/12 18:08	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	99-09-2	



Analytical Laboratory Report

Lab Sample ID: S52618.08 (continued)

Sample Tag: SB-A5.4-LZ195_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	05/30/12 18:08	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 18:08	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52618.09
Sample Tag: SB-A5.4-LZ195_8-9 MS
Collected Date/Time: 05/23/2012 14:15
Matrix: Soil
COC Reference: 68851

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/25/12 17:20	EMR		
Extraction, PCB	Completed			3550B	05/30/12 16:36	CCM		
Mercury Digestion	Completed			7471A	05/31/12 13:30	JRH		
Metal Digestion	Completed			3050B	05/30/12 14:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/25/12 15:00	RGS		
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Metals

Antimony	20.0	mg/kg	0.20	6020	05/31/12 15:59	PER	7440-36-0	
Arsenic	24.5	mg/kg	0.10	6020	05/31/12 15:59	PER	7440-38-2	
Barium	39.3	mg/kg	1.0	6020	05/31/12 15:59	PER	7440-39-3	
Beryllium	20.9	mg/kg	0.20	6020	05/31/12 15:59	PER	7440-41-7	
Boron	23.6	mg/kg	4.1	6020	05/31/12 15:59	PER	7440-42-8	
Cadmium	20.6	mg/kg	0.10	6020	05/31/12 15:59	PER	7440-43-9	
Chromium	27.3	mg/kg	0.20	6020	05/31/12 15:59	PER	7440-47-3	
Cobalt	25.1	mg/kg	0.20	6020	05/31/12 15:59	PER	7440-48-4	
Copper	28.1	mg/kg	0.20	6020	05/31/12 15:59	PER	7440-50-8	
Lead	22.9	mg/kg	0.20	6020	05/31/12 15:59	PER	7439-92-1	
Manganese	235	mg/kg	0.20	6020	05/31/12 15:59	PER	7439-96-5	
Mercury	0.1160	mg/kg	0.0057	7471A	05/31/12 16:27	JRT	7439-97-6	
Nickel	30.8	mg/kg	0.20	6020	05/31/12 15:59	PER	7440-02-0	
Selenium	21.5	mg/kg	0.20	6020	05/31/12 15:59	PER	7782-49-2	
Silver	19.8	mg/kg	0.10	6020	05/31/12 15:59	PER	7440-22-4	
Thallium	18.6	mg/kg	0.20	6020	05/31/12 15:59	PER	7440-28-0	
Vanadium	29.1	mg/kg	0.20	6020	05/31/12 15:59	PER	7440-62-2	
Zinc	32.6	mg/kg	1.0	6020	05/31/12 15:59	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	20	ug/kg	3	8082A	05/30/12 16:36	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/30/12 16:36	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/30/12 16:36	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/30/12 16:36	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/30/12 16:36	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/30/12 16:36	JANB	11097-69-1	
PCB-1260	20	ug/kg	3	8082A	05/30/12 16:36	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	1,640	ug/kg	40	8270C	05/30/12 18:42	PL	83-32-9	1
Acenaphthylene	1,580	ug/kg	40	8270C	05/30/12 18:42	PL	208-96-8	1

1-Sample spiked at 1.92 mg/kg



Analytical Laboratory Report

Lab Sample ID: S52618.09 (continued)

Sample Tag: SB-A5.4-LZ195_8-9 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	1,640	ug/kg	40	8270C	05/30/12 18:42	PL	98-86-2	1
Anthracene	1,630	ug/kg	40	8270C	05/30/12 18:42	PL	120-12-7	1
Atrazine	1,840	ug/kg	40	8270C	05/30/12 18:42	PL	1912-24-9	1
1,1'-Biphenyl	1,600	ug/kg	40	8270C	05/30/12 18:42	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,730	ug/kg	40	8270C	05/30/12 18:42	PL	101-55-3	1
di-n-Butyl phthalate	1,700	ug/kg	80	8270C	05/30/12 18:42	PL	84-74-2	1
Benzaldehyde	950	ug/kg	40	8270C	05/30/12 18:42	PL	100-52-7	1
Benzo(a)anthracene	1,630	ug/kg	40	8270C	05/30/12 18:42	PL	56-55-3	1
Benzo(a)pyrene	1,520	ug/kg	40	8270C	05/30/12 18:42	PL	50-32-8	1
Benzo(b)fluoranthene	1,760	ug/kg	40	8270C	05/30/12 18:42	PL	205-99-2	1
Benzo(ghi)perylene	1,470	ug/kg	40	8270C	05/30/12 18:42	PL	191-24-2	1
Benzo(k)fluoranthene	1,760	ug/kg	40	8270C	05/30/12 18:42	PL	207-08-9	1
Butyl benzyl phthalate	1,870	ug/kg	40	8270C	05/30/12 18:42	PL	85-68-7	1
2-Chloronaphthalene	1,570	ug/kg	40	8270C	05/30/12 18:42	PL	91-58-7	1
2-Chlorophenol	1,560	ug/kg	40	8270C	05/30/12 18:42	PL	95-57-8	1
4-Chloro-3-methylphenol	1,750	ug/kg	40	8270C	05/30/12 18:42	PL	59-50-7	1
4-Chloroaniline	1,500	ug/kg	40	8270C	05/30/12 18:42	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,790	ug/kg	40	8270C	05/30/12 18:42	PL	7005-72-3	1
Caprolactam	1,790	ug/kg	40	8270C	05/30/12 18:42	PL	105-60-2	1
Carbazole	1,530	ug/kg	40	8270C	05/30/12 18:42	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,490	ug/kg	40	8270C	05/30/12 18:42	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,390	ug/kg	40	8270C	05/30/12 18:42	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,330	ug/kg	40	8270C	05/30/12 18:42	PL	108-60-1	1
Chrysene	1,700	ug/kg	40	8270C	05/30/12 18:42	PL	218-01-9	1
2,4-Dichlorophenol	1,670	ug/kg	40	8270C	05/30/12 18:42	PL	120-83-2	1
2,4-Dimethylphenol	1,660	ug/kg	40	8270C	05/30/12 18:42	PL	105-67-9	1
2,4-Dinitrophenol	690	ug/kg	40	8270C	05/30/12 18:42	PL	51-28-5	1
2,4-Dinitrotoluene	1,810	ug/kg	40	8270C	05/30/12 18:42	PL	121-14-2	1
2,6-Dinitrotoluene	1,740	ug/kg	40	8270C	05/30/12 18:42	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,580	ug/kg	40	8270C	05/30/12 18:42	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,400	ug/kg	40	8270C	05/30/12 18:42	PL	534-52-1	1
Dibenzo(ah)anthracene	1,430	ug/kg	80	8270C	05/30/12 18:42	PL	53-70-3	1
Dibenzofuran	1,730	ug/kg	40	8270C	05/30/12 18:42	PL	132-64-9	1
Diethyl phthalate	1,810	ug/kg	80	8270C	05/30/12 18:42	PL	84-66-2	1
Dimethyl phthalate	2,090	ug/kg	40	8270C	05/30/12 18:42	PL	131-11-3	1B
bis(2-Ethylhexyl)phthalate	1,780	ug/kg	80	8270C	05/30/12 18:42	PL	117-81-7	1
Fluoranthene	1,600	ug/kg	40	8270C	05/30/12 18:42	PL	206-44-0	1
Fluorene	1,690	ug/kg	40	8270C	05/30/12 18:42	PL	86-73-7	1
Hexachlorobenzene	1,800	ug/kg	40	8270C	05/30/12 18:42	PL	118-74-1	1
Hexachlorobutadiene	1,690	ug/kg	40	8270C	05/30/12 18:42	PL	87-68-3	1
Hexachlorocyclopentadiene	940	ug/kg	40	8270C	05/30/12 18:42	PL	77-47-4	1
Hexachloroethane	1,450	ug/kg	40	8270C	05/30/12 18:42	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,630	ug/kg	40	8270C	05/30/12 18:42	PL	193-39-5	1
Isophorone	1,550	ug/kg	40	8270C	05/30/12 18:42	PL	78-59-1	1
2-Methylnaphthalene	1,550	ug/kg	40	8270C	05/30/12 18:42	PL	91-57-6	1
2-Methylphenol	1,620	ug/kg	40	8270C	05/30/12 18:42	PL	95-48-7	1
3-, 4-Methylphenol	3,340	ug/kg	80	8270C	05/30/12 18:42	PL	3/4-Cresol	1

1-Sample spiked at 1.92 mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52618.09 (continued)

Sample Tag: SB-A5.4-LZ195_8-9 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	1,690	ug/kg	40	8270C	05/30/12 18:42	PL	88-74-4	1
2-Nitrophenol	1,630	ug/kg	40	8270C	05/30/12 18:42	PL	88-75-5	1
3-Nitroaniline	1,500	ug/kg	40	8270C	05/30/12 18:42	PL	99-09-2	1
4-Nitroaniline	1,610	ug/kg	40	8270C	05/30/12 18:42	PL	100-01-6	1
4-Nitrophenol	1,520	ug/kg	40	8270C	05/30/12 18:42	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,630	ug/kg	40	8270C	05/30/12 18:42	PL	621-64-7	1
N-Nitrosodiphenylamine	1,410	ug/kg	40	8270C	05/30/12 18:42	PL	86-30-6	1
Naphthalene	1,500	ug/kg	40	8270C	05/30/12 18:42	PL	91-20-3	1
Nitrobenzene	1,580	ug/kg	40	8270C	05/30/12 18:42	PL	98-95-3	1
di-n-Octyl phthalate	2,140	ug/kg	80	8270C	05/30/12 18:42	PL	117-84-0	1
Pentachlorophenol	1,490	ug/kg	40	8270C	05/30/12 18:42	PL	87-86-5	1
Phenanthrene	1,590	ug/kg	40	8270C	05/30/12 18:42	PL	85-01-8	1
Phenol	1,550	ug/kg	40	8270C	05/30/12 18:42	PL	108-95-2	1
Pyrene	1,760	ug/kg	40	8270C	05/30/12 18:42	PL	129-00-0	1
2,4,5-Trichlorophenol	1,740	ug/kg	40	8270C	05/30/12 18:42	PL	95-95-4	1
2,4,6-Trichlorophenol	1,680	ug/kg	40	8270C	05/30/12 18:42	PL	88-06-2	1

1-Sample spiked at 1.92 mg/kg



Analytical Laboratory Report

Lab Sample ID: S52618.10
Sample Tag: SB-A5.4-LZ195_8-9 MSD
Collected Date/Time: 05/23/2012 14:15
Matrix: Soil
COC Reference: 68851

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/25/12 17:20	EMR		
Extraction, PCB	Completed			3550B	05/30/12 16:36	CCM		
Mercury Digestion	Completed			7471A	05/31/12 13:30	JRH		
Metal Digestion	Completed			3050B	05/30/12 14:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/25/12 15:00	RGS		
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Metals

Antimony	19.9	mg/kg	0.20	6020	05/31/12 16:02	PER	7440-36-0	
Arsenic	24.4	mg/kg	0.10	6020	05/31/12 16:02	PER	7440-38-2	
Barium	39.4	mg/kg	1.0	6020	05/31/12 16:02	PER	7440-39-3	
Beryllium	21.2	mg/kg	0.20	6020	05/31/12 16:02	PER	7440-41-7	
Boron	25.8	mg/kg	4.1	6020	05/31/12 16:02	PER	7440-42-8	
Cadmium	20.4	mg/kg	0.10	6020	05/31/12 16:02	PER	7440-43-9	
Chromium	27.4	mg/kg	0.20	6020	05/31/12 16:02	PER	7440-47-3	
Cobalt	25.5	mg/kg	0.20	6020	05/31/12 16:02	PER	7440-48-4	
Copper	28.0	mg/kg	0.20	6020	05/31/12 16:02	PER	7440-50-8	
Lead	23.1	mg/kg	0.20	6020	05/31/12 16:02	PER	7439-92-1	
Manganese	237	mg/kg	0.20	6020	05/31/12 16:02	PER	7439-96-5	
Mercury	0.1167	mg/kg	0.0058	7471A	05/31/12 16:29	JRT	7439-97-6	
Nickel	31.8	mg/kg	0.20	6020	05/31/12 16:02	PER	7440-02-0	
Selenium	21.0	mg/kg	0.20	6020	05/31/12 16:02	PER	7782-49-2	
Silver	19.5	mg/kg	0.10	6020	05/31/12 16:02	PER	7440-22-4	
Thallium	18.6	mg/kg	0.20	6020	05/31/12 16:02	PER	7440-28-0	
Vanadium	30.0	mg/kg	0.20	6020	05/31/12 16:02	PER	7440-62-2	
Zinc	32.6	mg/kg	1.0	6020	05/31/12 16:02	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	30	ug/kg	3	8082A	05/30/12 16:46	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/30/12 16:46	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/30/12 16:46	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/30/12 16:46	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/30/12 16:46	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/30/12 16:46	JANB	11097-69-1	
PCB-1260	30	ug/kg	3	8082A	05/30/12 16:46	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	1,590	ug/kg	40	8270C	05/30/12 19:17	PL	83-32-9	1
Acenaphthylene	1,530	ug/kg	40	8270C	05/30/12 19:17	PL	208-96-8	1

1-Sample spiked at 1.92 mg/kg



Analytical Laboratory Report

Lab Sample ID: S52618.10 (continued)

Sample Tag: SB-A5.4-LZ195_8-9 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	1,480	ug/kg	40	8270C	05/30/12 19:17	PL	98-86-2	1
Anthracene	1,610	ug/kg	40	8270C	05/30/12 19:17	PL	120-12-7	1
Atrazine	1,840	ug/kg	40	8270C	05/30/12 19:17	PL	1912-24-9	1
1,1'-Biphenyl	1,540	ug/kg	40	8270C	05/30/12 19:17	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,670	ug/kg	40	8270C	05/30/12 19:17	PL	101-55-3	1
di-n-Butyl phthalate	1,680	ug/kg	80	8270C	05/30/12 19:17	PL	84-74-2	1
Benzaldehyde	850	ug/kg	40	8270C	05/30/12 19:17	PL	100-52-7	1
Benzo(a)anthracene	1,620	ug/kg	40	8270C	05/30/12 19:17	PL	56-55-3	1
Benzo(a)pyrene	1,520	ug/kg	40	8270C	05/30/12 19:17	PL	50-32-8	1
Benzo(b)fluoranthene	1,820	ug/kg	40	8270C	05/30/12 19:17	PL	205-99-2	1
Benzo(ghi)perylene	1,380	ug/kg	40	8270C	05/30/12 19:17	PL	191-24-2	1
Benzo(k)fluoranthene	1,710	ug/kg	40	8270C	05/30/12 19:17	PL	207-08-9	1
Butyl benzyl phthalate	1,880	ug/kg	40	8270C	05/30/12 19:17	PL	85-68-7	1
2-Chloronaphthalene	1,510	ug/kg	40	8270C	05/30/12 19:17	PL	91-58-7	1
2-Chlorophenol	1,380	ug/kg	40	8270C	05/30/12 19:17	PL	95-57-8	1
4-Chloro-3-methylphenol	1,690	ug/kg	40	8270C	05/30/12 19:17	PL	59-50-7	1
4-Chloroaniline	1,410	ug/kg	40	8270C	05/30/12 19:17	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,750	ug/kg	40	8270C	05/30/12 19:17	PL	7005-72-3	1
Caprolactam	1,750	ug/kg	40	8270C	05/30/12 19:17	PL	105-60-2	1
Carbazole	1,550	ug/kg	40	8270C	05/30/12 19:17	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,340	ug/kg	40	8270C	05/30/12 19:17	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,220	ug/kg	40	8270C	05/30/12 19:17	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,190	ug/kg	40	8270C	05/30/12 19:17	PL	108-60-1	1
Chrysene	1,680	ug/kg	40	8270C	05/30/12 19:17	PL	218-01-9	1
2,4-Dichlorophenol	1,500	ug/kg	40	8270C	05/30/12 19:17	PL	120-83-2	1
2,4-Dimethylphenol	1,530	ug/kg	40	8270C	05/30/12 19:17	PL	105-67-9	1
2,4-Dinitrophenol	800	ug/kg	40	8270C	05/30/12 19:17	PL	51-28-5	1
2,4-Dinitrotoluene	1,840	ug/kg	40	8270C	05/30/12 19:17	PL	121-14-2	1
2,6-Dinitrotoluene	1,780	ug/kg	40	8270C	05/30/12 19:17	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,600	ug/kg	40	8270C	05/30/12 19:17	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,420	ug/kg	40	8270C	05/30/12 19:17	PL	534-52-1	1
Dibenzo(ah)anthracene	1,430	ug/kg	80	8270C	05/30/12 19:17	PL	53-70-3	1
Dibenzofuran	1,670	ug/kg	40	8270C	05/30/12 19:17	PL	132-64-9	1
Diethyl phthalate	1,770	ug/kg	80	8270C	05/30/12 19:17	PL	84-66-2	1
Dimethyl phthalate	2,060	ug/kg	40	8270C	05/30/12 19:17	PL	131-11-3	1B
bis(2-Ethylhexyl)phthalate	1,810	ug/kg	80	8270C	05/30/12 19:17	PL	117-81-7	1
Fluoranthene	1,620	ug/kg	40	8270C	05/30/12 19:17	PL	206-44-0	1
Fluorene	1,650	ug/kg	40	8270C	05/30/12 19:17	PL	86-73-7	1
Hexachlorobenzene	1,720	ug/kg	40	8270C	05/30/12 19:17	PL	118-74-1	1
Hexachlorobutadiene	1,550	ug/kg	40	8270C	05/30/12 19:17	PL	87-68-3	1
Hexachlorocyclopentadiene	890	ug/kg	40	8270C	05/30/12 19:17	PL	77-47-4	1
Hexachloroethane	1,300	ug/kg	40	8270C	05/30/12 19:17	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,530	ug/kg	40	8270C	05/30/12 19:17	PL	193-39-5	1
Isophorone	1,430	ug/kg	40	8270C	05/30/12 19:17	PL	78-59-1	1
2-Methylnaphthalene	1,400	ug/kg	40	8270C	05/30/12 19:17	PL	91-57-6	1
2-Methylphenol	1,430	ug/kg	40	8270C	05/30/12 19:17	PL	95-48-7	1
3-, 4-Methylphenol	3,010	ug/kg	80	8270C	05/30/12 19:17	PL	3/4-Cresol	1

1-Sample spiked at 1.92 mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52618.10 (continued)

Sample Tag: SB-A5.4-LZ195_8-9 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	1,680	ug/kg	40	8270C	05/30/12 19:17	PL	88-74-4	1
2-Nitrophenol	1,480	ug/kg	40	8270C	05/30/12 19:17	PL	88-75-5	1
3-Nitroaniline	1,500	ug/kg	40	8270C	05/30/12 19:17	PL	99-09-2	1
4-Nitroaniline	1,630	ug/kg	40	8270C	05/30/12 19:17	PL	100-01-6	1
4-Nitrophenol	1,570	ug/kg	40	8270C	05/30/12 19:17	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,450	ug/kg	40	8270C	05/30/12 19:17	PL	621-64-7	1
N-Nitrosodiphenylamine	1,380	ug/kg	40	8270C	05/30/12 19:17	PL	86-30-6	1
Naphthalene	1,350	ug/kg	40	8270C	05/30/12 19:17	PL	91-20-3	1
Nitrobenzene	1,380	ug/kg	40	8270C	05/30/12 19:17	PL	98-95-3	1
di-n-Octyl phthalate	2,200	ug/kg	80	8270C	05/30/12 19:17	PL	117-84-0	1
Pentachlorophenol	1,530	ug/kg	40	8270C	05/30/12 19:17	PL	87-86-5	1
Phenanthrene	1,580	ug/kg	40	8270C	05/30/12 19:17	PL	85-01-8	1
Phenol	1,390	ug/kg	40	8270C	05/30/12 19:17	PL	108-95-2	1
Pyrene	1,780	ug/kg	40	8270C	05/30/12 19:17	PL	129-00-0	1
2,4,5-Trichlorophenol	1,740	ug/kg	40	8270C	05/30/12 19:17	PL	95-95-4	1
2,4,6-Trichlorophenol	1,670	ug/kg	40	8270C	05/30/12 19:17	PL	88-06-2	1

1-Sample spiked at 1.92 mg/kg



Analytical Laboratory Report

Lab Sample ID: S52618.11
Sample Tag: SB-A5.4-LZ195_4-8
Collected Date/Time: 05/23/2012 14:38
Matrix: Groundwater
COC Reference: 68851

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.3	IR
1	125ml Plastic	HNO3	Yes	4.3	IR
2	40ml Glass	HCL	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/29/12 22:20	EMR		
Mercury Digestion	Completed			7471A	05/30/12 12:00	JRH		
Metal Digestion	Completed			3015A	05/30/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 17:55	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 17:55	SLS	7440-38-2	
Barium, Dissolved	0.041	mg/L	0.010	6020	05/30/12 17:55	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/31/12 14:55	SLS	7440-41-7	
Boron, Dissolved	0.11	mg/L	0.04	6020	05/30/12 17:55	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/30/12 17:55	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 17:55	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 17:55	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 17:55	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 17:55	SLS	7439-92-1	
Manganese, Dissolved	0.142	mg/L	0.010	6020	05/30/12 17:55	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/30/12 15:05	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 17:55	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 17:55	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/30/12 17:55	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 17:55	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 17:55	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 17:55	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/01/12 05:50	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/01/12 05:50	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	205-99-2	



Analytical Laboratory Report

Lab Sample ID: S52618.11 (continued)

Sample Tag: SB-A5.4-LZ195_4-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	05/31/12 21:28	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	05/31/12 21:28	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	05/31/12 21:28	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	5	ug/L	2	8270C	05/31/12 21:28	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	129-00-0	



Analytical Laboratory Report

Lab Sample ID: S52618.11 (continued)

Sample Tag: SB-A5.4-LZ195_4-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	05/31/12 21:28	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	06/05/12 19:56	JGH	123-91-1	



Analytical Laboratory Report

Lab Sample ID: S52618.12
Sample Tag: Trip Blank
Collected Date/Time: 05/23/2012 00:01
Matrix: Water
COC Reference: 68851

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	06/05/12 20:14	JGH	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	06/01/12 14:20	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	06/01/12 14:20	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	06/01/12 14:20	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	06/01/12 14:20	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	06/01/12 14:20	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/01/12 14:20	WAT		



Analytical Laboratory Report

Lab Sample ID: S52618.12 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	06/01/12 14:20	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S52618.13
Sample Tag: SB-A5.4-LZ195_12-13
Collected Date/Time: 05/23/2012 15:25
Matrix: Soil
COC Reference: 68851

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/25/12 17:20	EMR		
Extraction, PCB	Completed			3550B	05/30/12 16:36	CCM		
Mercury Digestion	Completed			7471A	05/31/12 13:30	JRH		
Metal Digestion	Completed			3050B	05/30/12 14:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/25/12 15:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	05/31/12 16:04	PER	7440-36-0	
Arsenic	0.54	mg/kg	0.10	6020	05/31/12 16:04	PER	7440-38-2	
Barium	30.1	mg/kg	1.0	6020	05/31/12 16:04	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	05/31/12 16:04	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	05/31/12 16:04	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	05/31/12 16:04	PER	7440-43-9	
Chromium	1.80	mg/kg	0.20	6020	05/31/12 16:04	PER	7440-47-3	
Cobalt	1.40	mg/kg	0.20	6020	05/31/12 16:04	PER	7440-48-4	
Copper	6.42	mg/kg	0.20	6020	05/31/12 16:04	PER	7440-50-8	
Lead	1.35	mg/kg	0.20	6020	05/31/12 16:04	PER	7439-92-1	
Manganese	54.6	mg/kg	0.20	6020	05/31/12 16:04	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0057	7471A	05/31/12 16:22	JRT	7439-97-6	
Nickel	2.82	mg/kg	0.20	6020	05/31/12 16:04	PER	7440-02-0	
Selenium	0.22	mg/kg	0.20	6020	05/31/12 16:04	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	05/31/12 16:04	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	05/31/12 16:04	PER	7440-28-0	
Vanadium	2.60	mg/kg	0.20	6020	05/31/12 16:04	PER	7440-62-2	
Zinc	5.11	mg/kg	1.0	6020	05/31/12 16:04	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/30/12 17:49	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/30/12 17:49	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/30/12 17:49	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/30/12 17:49	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/30/12 17:49	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/30/12 17:49	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/30/12 17:49	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52618.13 (continued)

Sample Tag: SB-A5.4-LZ195_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	05/30/12 19:51	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	05/30/12 19:51	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	05/30/12 19:51	PL	84-66-2	
Dimethyl phthalate	240	ug/kg	40	8270C	05/30/12 19:51	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	05/30/12 19:51	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	05/30/12 19:51	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52618.13 (continued)

Sample Tag: SB-A5.4-LZ195_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	05/30/12 19:51	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	05/30/12 19:51	PL	88-06-2	

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME **Randy Christensen**
COMPANY **ARCADIS**
ADDRESS **10559 Citation Drive Suite 100**
CITY **Brighton** STATE **MI** ZIP CODE **48116**
PHONE NO. **810-225-1910** FAX NO. **PO 125047**
E-MAIL ADDRESS **randy.christensen@arcadis-us.com** QUOTE NO. **Task# 5**

CONTACT NAME **Dave Favero** ☐ SAME
COMPANY **RACER TRUST**
ADDRESS **2930 Ecorse Road**
CITY **Ypsilanti** STATE **MI** ZIP CODE **48198**
PHONE NO. **313-486-9208** E-MAIL ADDRESS **dfavero@racertrust.org**

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME **Lansing Plant 2 Project# B00644 7/9/2012** SAMPLER(S) - PLEASE PRINT/SIGN NAME **Megan Meckley / Megan Meckley**
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW-GROUNDWATER WW-WASTEWATER S-SOIL L-LIQUID SD-SOLID
SL-SLUDGE DW-DRINKING WATER O-OIL WP-WIPE A-AIR W-WASTE

Containers & Preservatives

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	H2	HNO3	H2SO4	NaOH	MeOH	OTHER
52618.01	5/23/12	1143	SB-A8-LF155A-0-1	S	1	X						
.02		1155	SB-A8-LF155A-6-7	S	1	X						
.03		1212	SB-A8-LF155A-6-10	SN	5	X						
.04			SB-A8-DUP47	S	1	X						
.05		1310	SB-A8-LL165-1-2	S	1	X						
.06		1320	SB-A8-LL165-7-8	S	1	X						
.07		1355	SB-A5.4-LZ195-0-1	S	1	X						
08/09/10	1415	1355	SB-A5.4-LZ195-8-9	S	1	X						
.11		1438	SB-A5.4-LZ195-4-8	GW	5	X						
.12			TRIP BLANK	L	1	X						
.13		1525	SB-A5.4-LZ195-12-13	S	1	X						

VOCs T4 Dioxins	SVOCs	PCBs	Metals (w/Hg)	Certifications
				☐ OHIO VAP ☐ Drinking Water
				☐ DoD ☐ NPDES
				Project Locations
				☐ Detroit ☐ New York
				☒ Other LANSING
				Special Instructions
	X	X	X	*metals, PCBs,
		X	X	+svocs field
	X	X	X	filtered.
	X	X	X	
	X	X	X	*hob 1,4, paxane
	X	X	X	
	X	X	X	-ms/msd (8-9) ^{LZ195}
X	X	X	X	
	X	X	X	

RELINQUISHED BY: **Megan Meckley** ☒ Sampler DATE **5/23/12** TIME **1705**
SIGNATURE/ORGANIZATION **Megan Meckley**
RELINQUISHED BY: **John Mel** DATE **5/24/12** TIME **0915**
SIGNATURE/ORGANIZATION **John Mel**
RELINQUISHED BY: _____ DATE _____ TIME _____
SIGNATURE/ORGANIZATION _____
RELINQUISHED BY: _____ DATE _____ TIME _____
SIGNATURE/ORGANIZATION _____

RELINQUISHED BY: _____ DATE _____ TIME _____
SIGNATURE/ORGANIZATION _____
RELINQUISHED BY: **Purd** DATE **5-24-12** TIME **0915**
SIGNATURE/ORGANIZATION **Purd**
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS _____
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS _____
NOTES: TEMP. ON ARRIVAL **4-5**



Analytical Laboratory Report

Revised Report

Report ID: S52650.01(02)

Generated on 06/13/2012

Replaces report S52650.01(01) generated on 06/08/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52650.01-S52650.18

Project: Lansing Plant #2 Project# B0064479.2012

Collected Date: 05/25/2012

Submitted Date/Time: 05/29/2012 08:00

Sampled by: M.Meckly

P.O. #: PO125047

Sample tag changes 6-13-12

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Revised Report

Sample Summary (18 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52650.01	SB-A5.5-NW195_1-2	Soil	05/25/2012 08:33
S52650.02	SB-A5.5-NW195_8-9	Soil	05/25/2012 08:55
S52650.03	SB-A5.5-NW195_5-9	Groundwater	05/25/2012 09:20
S52650.04	SB-A5.5-NW195_5-9 MS	Groundwater	05/25/2012 09:20
S52650.05	SB-A5.5-NW195_5-9 MSD	Groundwater	05/25/2012 09:20
S52650.06	SB-A5.5-DUP51	Soil	05/25/2012 00:01
S52650.07	SB-A5.5-NO196_1-2	Soil	05/25/2012 10:55
S52650.08	SB-A5.5-NT196_0-1	Soil	05/25/2012 11:04
S52650.09	SB-A5.5-NW195_12-13	Soil	05/25/2012 11:06
S52650.10	SB-A5.5-NT196_5-6	Soil	05/25/2012 11:28
S52650.11	SB-A5.5-NT196_5-9	Groundwater	05/25/2012 11:45
S52650.12	SB-A5.5-NT196_5-9 MS	Groundwater	05/25/2012 11:45
S52650.13	SB-A5.5-NT196_5-9 MSD	Groundwater	05/25/2012 11:45
S52650.14	Trip Blank	Groundwater	05/25/2012 00:01
S52650.15	SB-A5.5-NT196_14-15	Soil	05/25/2012 13:01
S52650.16	SB-A5.5-NO196_8-9	Soil	05/25/2012 13:18
S52650.17	SB-A5.5-NO196_5-9	Groundwater	05/25/2012 13:35
S52650.18	SB-A5.5-DUP52	Soil	05/25/2012 00:01



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.01

Sample Tag: SB-A5.5-NW195_1-2

Collected Date/Time: 05/25/2012 08:33

Matrix: Soil

COC Reference: 67415

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/31/12 11:21	CCM		
Extraction, PCB	Completed			3550B	05/30/12 16:36	CCM		
Mercury Digestion	Completed			7471A	06/01/12 10:35	JRH		
Metal Digestion	Completed			3050B	06/01/12 09:00	PER		

Inorganics

Total Solids	93	%	1	Std M 2540 B	05/29/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/01/12 15:08	PER	7440-36-0	
Arsenic	0.92	mg/kg	0.10	6020	06/01/12 15:08	PER	7440-38-2	
Barium	9.55	mg/kg	1.0	6020	06/01/12 15:08	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/01/12 15:08	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/01/12 15:08	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/01/12 15:08	PER	7440-43-9	
Chromium	1.24	mg/kg	0.20	6020	06/01/12 15:08	PER	7440-47-3	
Cobalt	1.67	mg/kg	0.20	6020	06/01/12 15:08	PER	7440-48-4	
Copper	2.81	mg/kg	0.20	6020	06/01/12 15:08	PER	7440-50-8	
Lead	2.26	mg/kg	0.20	6020	06/01/12 15:08	PER	7439-92-1	
Manganese	194	mg/kg	0.20	6020	06/01/12 15:08	PER	7439-96-5	
Mercury	0.0152	mg/kg	0.0053	7471A	06/01/12 15:28	JRT	7439-97-6	
Nickel	5.19	mg/kg	0.20	6020	06/01/12 15:08	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/01/12 15:08	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/01/12 15:08	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/01/12 15:08	PER	7440-28-0	
Vanadium	2.56	mg/kg	0.20	6020	06/01/12 15:08	PER	7440-62-2	
Zinc	4.61	mg/kg	1.0	6020	06/01/12 15:08	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/30/12 18:10	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/30/12 18:10	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/30/12 18:10	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/30/12 18:10	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/30/12 18:10	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/30/12 18:10	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/30/12 18:10	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	98-86-2	



Analytical Laboratory Report

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Lab Sample ID: S52650.01 (continued)

Sample Tag: SB-A5.5-NW195_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/04/12 18:49	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/04/12 18:49	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/04/12 18:49	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/04/12 18:49	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/04/12 18:49	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	99-09-2	



Analytical Laboratory Report

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Lab Sample ID: S52650.01 (continued)

Sample Tag: SB-A5.5-NW195_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/04/12 18:49	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/04/12 18:49	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.02
Sample Tag: SB-A5.5-NW195_8-9
Collected Date/Time: 05/25/2012 08:55
Matrix: Soil
COC Reference: 67415

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/31/12 11:21	CCM		
Extraction, PCB	Completed			3550B	05/30/12 16:36	CCM		
Mercury Digestion	Completed			7471A	06/01/12 10:35	JRH		
Metal Digestion	Completed			3050B	06/01/12 09:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/29/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/01/12 15:10	PER	7440-36-0	
Arsenic	11.5	mg/kg	0.10	6020	06/01/12 15:10	PER	7440-38-2	
Barium	15.1	mg/kg	1.0	6020	06/01/12 15:10	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/01/12 15:10	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/01/12 15:10	PER	7440-42-8	
Cadmium	0.13	mg/kg	0.10	6020	06/01/12 15:10	PER	7440-43-9	
Chromium	2.06	mg/kg	0.20	6020	06/01/12 15:10	PER	7440-47-3	
Cobalt	1.39	mg/kg	0.20	6020	06/01/12 15:10	PER	7440-48-4	
Copper	14.7	mg/kg	0.20	6020	06/01/12 15:10	PER	7440-50-8	
Lead	9.88	mg/kg	0.20	6020	06/01/12 15:10	PER	7439-92-1	
Manganese	155	mg/kg	0.20	6020	06/01/12 15:10	PER	7439-96-5	
Mercury	0.0161	mg/kg	0.0058	7471A	06/01/12 15:30	JRT	7439-97-6	
Nickel	5.53	mg/kg	0.20	6020	06/01/12 15:10	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/01/12 15:10	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/01/12 15:10	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/01/12 15:10	PER	7440-28-0	
Vanadium	3.71	mg/kg	0.20	6020	06/01/12 15:10	PER	7440-62-2	
Zinc	12.8	mg/kg	1.0	6020	06/01/12 15:10	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	10	8082A	05/31/12 16:35	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	10	8082A	05/31/12 16:35	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	10	8082A	05/31/12 16:35	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	10	8082A	05/31/12 16:35	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	10	8082A	05/31/12 16:35	JANB	12672-29-6	
PCB-1254	40	ug/kg	10	8082A	05/31/12 16:35	JANB	11097-69-1	Q
PCB-1260	Not detected	ug/kg	10	8082A	05/31/12 16:35	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	83-32-9	X
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Q-Reported result represents most abundant aroclor

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.02 (continued)

Sample Tag: SB-A5.5-NW195_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acenaphthylene	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	98-86-2	X
Anthracene	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	120-12-7	X
Atrazine	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	1,000	8270C	06/04/12 20:32	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	105-60-2	X
Carbazole	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	108-60-1	X
Chrysene	600	ug/kg	600	8270C	06/04/12 20:32	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	1,000	8270C	06/04/12 20:32	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	1,000	8270C	06/04/12 20:32	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	1,000	8270C	06/04/12 20:32	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	206-44-0	X
Fluorene	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	193-39-5	X
Isophorone	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	1,000	8270C	06/04/12 20:32	PL	3/4-Cresol	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.02 (continued)

Sample Tag: SB-A5.5-NW195_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	1,000	8270C	06/04/12 20:32	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	85-01-8	X
Phenol	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	108-95-2	X
Pyrene	600	ug/kg	600	8270C	06/04/12 20:32	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	600	8270C	06/04/12 20:32	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.03
Sample Tag: SB-A5.5-NW195_5-9
Collected Date/Time: 05/25/2012 09:20
Matrix: Groundwater
COC Reference: 67415

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	3.5	IR
2	40ml Glass	HCL	Yes	3.5	IR
1	125ml Plastic	HNO3	Yes	3.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/31/12 17:30	EMR		
Extraction, PCB	Completed			3510C	06/01/12 12:40	ADB		
Mercury Digestion	Completed			7471A	05/30/12 12:00	JRH		
Metal Digestion	Completed			3015A	05/30/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 18:07	SLS	7440-36-0	
Arsenic, Dissolved	0.069	mg/L	0.002	6020	05/30/12 18:07	SLS	7440-38-2	
Barium, Dissolved	0.048	mg/L	0.010	6020	05/30/12 18:07	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/31/12 15:01	SLS	7440-41-7	
Boron, Dissolved	0.10	mg/L	0.04	6020	05/30/12 18:07	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/30/12 18:07	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 18:07	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 18:07	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 18:07	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 18:07	SLS	7439-92-1	
Manganese, Dissolved	0.736	mg/L	0.010	6020	05/30/12 18:07	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/30/12 15:19	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 18:07	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 18:07	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/30/12 18:07	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 18:07	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 18:07	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 18:07	SLS	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List Dissolved (Column 1)**

PCB-1016	Not detected	ug/L	0.05	8082A	06/01/12 14:49	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	06/01/12 14:49	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	06/01/12 14:49	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	06/01/12 14:49	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	06/01/12 14:49	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	06/01/12 14:49	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	06/01/12 14:49	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/01/12 15:10	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/01/12 15:10	PL	118-74-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.03 (continued)

Sample Tag: SB-A5.5-NW195_5-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	06/04/12 15:17	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	120-83-2	
2,4-Dimethylphenol	1	ug/L	1	8270C	06/04/12 15:17	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	06/04/12 15:17	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	06/04/12 15:17	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	7	ug/L	2	8270C	06/04/12 15:17	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	88-75-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.03 (continued)

Sample Tag: SB-A5.5-NW195_5-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	06/04/12 15:17	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	06/07/12 01:41	JGH	123-91-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.04
Sample Tag: SB-A5.5-NW195_5-9 MS
Collected Date/Time: 05/25/2012 09:20
Matrix: Groundwater
COC Reference: 67415

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	3.5	IR
2	40ml Glass	HCL	Yes	3.5	IR
1	125ml Plastic	HNO3	Yes	3.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/31/12 17:30	EMR		
Extraction, PCB	Completed			3510C	06/01/12 12:40	ADB		
Mercury Digestion	Completed			7471A	05/30/12 12:00	JRH		
Metal Digestion	Completed			3015A	05/30/12 01:00	SLR		

Metals

Antimony, Dissolved	0.104	mg/L	0.002	6020	05/30/12 18:12	SLS	7440-36-0	
Arsenic, Dissolved	0.171	mg/L	0.002	6020	05/30/12 18:12	SLS	7440-38-2	
Barium, Dissolved	0.147	mg/L	0.010	6020	05/30/12 18:12	SLS	7440-39-3	
Beryllium, Dissolved	0.0997	mg/L	0.001	6020	05/31/12 15:03	SLS	7440-41-7	
Boron, Dissolved	0.20	mg/L	0.04	6020	05/30/12 18:12	SLS	7440-42-8	
Cadmium, Dissolved	0.102	mg/L	0.001	6020	05/30/12 18:12	SLS	7440-43-9	
Chromium, Dissolved	0.102	mg/L	0.010	6020	05/30/12 18:12	SLS	7440-47-3	
Cobalt, Dissolved	0.100	mg/L	0.010	6020	05/30/12 18:12	SLS	7440-48-4	
Copper, Dissolved	0.098	mg/L	0.002	6020	05/30/12 18:12	SLS	7440-50-8	
Lead, Dissolved	0.099	mg/L	0.002	6020	05/30/12 18:12	SLS	7439-92-1	
Manganese, Dissolved	0.784	mg/L	0.010	6020	05/30/12 18:12	SLS	7439-96-5	
Mercury, Dissolved	0.0021	mg/L	0.0001	7471A	05/30/12 15:21	JRT	7439-97-6	
Nickel, Dissolved	0.104	mg/L	0.010	6020	05/30/12 18:12	SLS	7440-02-0	
Selenium, Dissolved	0.100	mg/L	0.002	6020	05/30/12 18:12	SLS	7782-49-2	
Silver, Dissolved	0.0961	mg/L	0.0002	6020	05/30/12 18:12	SLS	7440-22-4	
Thallium, Dissolved	0.101	mg/L	0.002	6020	05/30/12 18:12	SLS	7440-28-0	
Vanadium, Dissolved	0.102	mg/L	0.002	6020	05/30/12 18:12	SLS	7440-62-2	
Zinc, Dissolved	0.100	mg/L	0.010	6020	05/30/12 18:12	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	0.4	ug/L	0.05	8082A	06/01/12 14:59	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	06/01/12 14:59	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	06/01/12 14:59	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	06/01/12 14:59	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	06/01/12 14:59	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	06/01/12 14:59	JANB	11097-69-1	
PCB-1260	0.5	ug/L	0.05	8082A	06/01/12 14:59	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	15	ug/L	1	8270C	06/04/12 15:46	PL	91-94-1	1
Hexachlorobenzene	49	ug/L	1	8270C	06/04/12 15:46	PL	118-74-1	1

1-Sample spiked at 0.051 mg/l



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.04 (continued)

Sample Tag: SB-A5.5-NW195_5-9 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	44	ug/L	1	8270C	06/04/12 15:46	PL	83-32-9	1
Acenaphthylene	41	ug/L	1	8270C	06/04/12 15:46	PL	208-96-8	1
Acetophenone	42	ug/L	1	8270C	06/04/12 15:46	PL	98-86-2	1
Anthracene	43	ug/L	1	8270C	06/04/12 15:46	PL	120-12-7	1
Atrazine	39	ug/L	1	8270C	06/04/12 15:46	PL	1912-24-9	1
1,1'-Biphenyl	41	ug/L	1	8270C	06/04/12 15:46	PL	92-52-4	1
4-Bromophenyl phenyl ether	47	ug/L	1	8270C	06/04/12 15:46	PL	101-55-3	1
di-n-Butyl phthalate	46	ug/L	1	8270C	06/04/12 15:46	PL	84-74-2	1
Benzaldehyde	32	ug/L	1	8270C	06/04/12 15:46	PL	100-52-7	1
Benzo(a)anthracene	47	ug/L	1	8270C	06/04/12 15:46	PL	56-55-3	1
Benzo(a)pyrene	41	ug/L	1	8270C	06/04/12 15:46	PL	50-32-8	1
Benzo(b)fluoranthene	47	ug/L	1	8270C	06/04/12 15:46	PL	205-99-2	1
Benzo(ghi)perylene	39	ug/L	1	8270C	06/04/12 15:46	PL	191-24-2	1
Benzo(k)fluoranthene	45	ug/L	1	8270C	06/04/12 15:46	PL	207-08-9	1
Butyl benzyl phthalate	49	ug/L	1	8270C	06/04/12 15:46	PL	85-68-7	1
2-Chloronaphthalene	44	ug/L	1	8270C	06/04/12 15:46	PL	91-58-7	1
2-Chlorophenol	37	ug/L	1	8270C	06/04/12 15:46	PL	95-57-8	1
4-Chloro-3-methylphenol	46	ug/L	1	8270C	06/04/12 15:46	PL	59-50-7	1
4-Chloroaniline	30	ug/L	2	8270C	06/04/12 15:46	PL	106-47-8	1
4-Chlorophenyl phenyl ether	49	ug/L	1	8270C	06/04/12 15:46	PL	7005-72-3	1
Caprolactam	7	ug/L	1	8270C	06/04/12 15:46	PL	105-60-2	1
Carbazole	47	ug/L	1	8270C	06/04/12 15:46	PL	86-74-8	1
bis(2-Chloroethoxy)methane	37	ug/L	1	8270C	06/04/12 15:46	PL	111-91-1	1
bis(2-Chloroethyl)ether	36	ug/L	1	8270C	06/04/12 15:46	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	31	ug/L	1	8270C	06/04/12 15:46	PL	108-60-1	1
Chrysene	47	ug/L	1	8270C	06/04/12 15:46	PL	218-01-9	1
2,4-Dichlorophenol	42	ug/L	1	8270C	06/04/12 15:46	PL	120-83-2	1
2,4-Dimethylphenol	44	ug/L	1	8270C	06/04/12 15:46	PL	105-67-9	1
2,4-Dinitrophenol	49	ug/L	1	8270C	06/04/12 15:46	PL	51-28-5	1
2,4-Dinitrotoluene	47	ug/L	1	8270C	06/04/12 15:46	PL	121-14-2	1
2,6-Dinitrotoluene	54	ug/L	1	8270C	06/04/12 15:46	PL	606-20-2	1
4,6-Dinitro-2-methylphenol	40	ug/L	1	8270C	06/04/12 15:46	PL	534-52-1	1
Dibenzo(ah)anthracene	39	ug/L	1	8270C	06/04/12 15:46	PL	53-70-3	1
Dibenzofuran	46	ug/L	1	8270C	06/04/12 15:46	PL	132-64-9	1
Diethyl phthalate	50	ug/L	2	8270C	06/04/12 15:46	PL	84-66-2	1
Dimethyl phthalate	48	ug/L	2	8270C	06/04/12 15:46	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	49	ug/L	2	8270C	06/04/12 15:46	PL	117-81-7	1
Fluoranthene	49	ug/L	1	8270C	06/04/12 15:46	PL	206-44-0	1
Fluorene	47	ug/L	1	8270C	06/04/12 15:46	PL	86-73-7	1
Hexachlorobutadiene	39	ug/L	1	8270C	06/04/12 15:46	PL	87-68-3	1
Hexachlorocyclopentadiene	31	ug/L	1	8270C	06/04/12 15:46	PL	77-47-4	1
Hexachloroethane	34	ug/L	1	8270C	06/04/12 15:46	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	40	ug/L	1	8270C	06/04/12 15:46	PL	193-39-5	1
Isophorone	38	ug/L	1	8270C	06/04/12 15:46	PL	78-59-1	1
2-Methylnaphthalene	40	ug/L	1	8270C	06/04/12 15:46	PL	91-57-6	1
2-Methylphenol	36	ug/L	1	8270C	06/04/12 15:46	PL	95-48-7	1
3-, 4-Methylphenol	77	ug/L	1	8270C	06/04/12 15:46	PL	3/4-Cresol	1
2-Nitroaniline	45	ug/L	1	8270C	06/04/12 15:46	PL	88-74-4	1

1-Sample spiked at 0.051 mg/l



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.04 (continued)

Sample Tag: SB-A5.5-NW195_5-9 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2-Nitrophenol	39	ug/L	1	8270C	06/04/12 15:46	PL	88-75-5	1
3-Nitroaniline	31	ug/L	1	8270C	06/04/12 15:46	PL	99-09-2	1
4-Nitroaniline	46	ug/L	1	8270C	06/04/12 15:46	PL	100-01-6	1
4-Nitrophenol	39	ug/L	1	8270C	06/04/12 15:46	PL	100-02-7	1
N-Nitrosodi-n-propylamine	40	ug/L	1	8270C	06/04/12 15:46	PL	621-64-7	1
N-Nitrosodiphenylamine	35	ug/L	1	8270C	06/04/12 15:46	PL	86-30-6	1
Naphthalene	34	ug/L	1	8270C	06/04/12 15:46	PL	91-20-3	1
Nitrobenzene	37	ug/L	1	8270C	06/04/12 15:46	PL	98-95-3	1
di-n-Octyl phthalate	52	ug/L	1	8270C	06/04/12 15:46	PL	117-84-0	1
Pentachlorophenol	48	ug/L	1	8270C	06/04/12 15:46	PL	87-86-5	1
Phenanthrene	43	ug/L	1	8270C	06/04/12 15:46	PL	85-01-8	1
Phenol	25	ug/L	1	8270C	06/04/12 15:46	PL	108-95-2	1
Pyrene	46	ug/L	1	8270C	06/04/12 15:46	PL	129-00-0	1
2,4,5-Trichlorophenol	49	ug/L	1	8270C	06/04/12 15:46	PL	95-95-4	1
2,4,6-Trichlorophenol	46	ug/L	1	8270C	06/04/12 15:46	PL	88-06-2	1

1-Sample spiked at 0.051 mg/l



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.05
Sample Tag: SB-A5.5-NW195_5-9 MSD
Collected Date/Time: 05/25/2012 09:20
Matrix: Groundwater
COC Reference: 67415

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	3.5	IR
2	40ml Glass	HCL	Yes	3.5	IR
1	125ml Plastic	HNO3	Yes	3.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/31/12 17:30	EMR		
Extraction, PCB	Completed			3510C	06/01/12 12:40	ADB		
Mercury Digestion	Completed			7471A	05/30/12 12:00	JRH		
Metal Digestion	Completed			3015A	05/30/12 01:00	SLR		

Metals

Antimony, Dissolved	0.106	mg/L	0.002	6020	05/30/12 18:16	SLS	7440-36-0	
Arsenic, Dissolved	0.170	mg/L	0.002	6020	05/30/12 18:16	SLS	7440-38-2	
Barium, Dissolved	0.148	mg/L	0.010	6020	05/30/12 18:16	SLS	7440-39-3	
Beryllium, Dissolved	0.102	mg/L	0.001	6020	05/31/12 15:05	SLS	7440-41-7	
Boron, Dissolved	0.19	mg/L	0.04	6020	05/30/12 18:16	SLS	7440-42-8	
Cadmium, Dissolved	0.102	mg/L	0.001	6020	05/30/12 18:16	SLS	7440-43-9	
Chromium, Dissolved	0.101	mg/L	0.010	6020	05/30/12 18:16	SLS	7440-47-3	
Cobalt, Dissolved	0.100	mg/L	0.010	6020	05/30/12 18:16	SLS	7440-48-4	
Copper, Dissolved	0.098	mg/L	0.002	6020	05/30/12 18:16	SLS	7440-50-8	
Lead, Dissolved	0.100	mg/L	0.002	6020	05/30/12 18:16	SLS	7439-92-1	
Manganese, Dissolved	0.787	mg/L	0.010	6020	05/30/12 18:16	SLS	7439-96-5	
Mercury, Dissolved	0.0021	mg/L	0.0001	7471A	05/30/12 15:23	JRT	7439-97-6	
Nickel, Dissolved	0.105	mg/L	0.010	6020	05/30/12 18:16	SLS	7440-02-0	
Selenium, Dissolved	0.103	mg/L	0.002	6020	05/30/12 18:16	SLS	7782-49-2	
Silver, Dissolved	0.0969	mg/L	0.0002	6020	05/30/12 18:16	SLS	7440-22-4	
Thallium, Dissolved	0.102	mg/L	0.002	6020	05/30/12 18:16	SLS	7440-28-0	
Vanadium, Dissolved	0.103	mg/L	0.002	6020	05/30/12 18:16	SLS	7440-62-2	
Zinc, Dissolved	0.101	mg/L	0.010	6020	05/30/12 18:16	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	0.5	ug/L	0.05	8082A	06/01/12 15:10	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	06/01/12 15:10	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	06/01/12 15:10	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	06/01/12 15:10	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	06/01/12 15:10	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	06/01/12 15:10	JANB	11097-69-1	
PCB-1260	0.5	ug/L	0.05	8082A	06/01/12 15:10	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	12	ug/L	1	8270C	06/04/12 16:16	PL	91-94-1	1
Hexachlorobenzene	49	ug/L	1	8270C	06/04/12 16:16	PL	118-74-1	1

1-Sample spiked at 0.052 mg/l



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.05 (continued)

Sample Tag: SB-A5.5-NW195_5-9 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	45	ug/L	1	8270C	06/04/12 16:16	PL	83-32-9	1
Acenaphthylene	42	ug/L	1	8270C	06/04/12 16:16	PL	208-96-8	1
Acetophenone	44	ug/L	1	8270C	06/04/12 16:16	PL	98-86-2	1
Anthracene	43	ug/L	1	8270C	06/04/12 16:16	PL	120-12-7	1
Atrazine	40	ug/L	1	8270C	06/04/12 16:16	PL	1912-24-9	1
1,1'-Biphenyl	42	ug/L	1	8270C	06/04/12 16:16	PL	92-52-4	1
4-Bromophenyl phenyl ether	48	ug/L	1	8270C	06/04/12 16:16	PL	101-55-3	1
di-n-Butyl phthalate	46	ug/L	1	8270C	06/04/12 16:16	PL	84-74-2	1
Benzaldehyde	35	ug/L	1	8270C	06/04/12 16:16	PL	100-52-7	1
Benzo(a)anthracene	48	ug/L	1	8270C	06/04/12 16:16	PL	56-55-3	1
Benzo(a)pyrene	41	ug/L	1	8270C	06/04/12 16:16	PL	50-32-8	1
Benzo(b)fluoranthene	49	ug/L	1	8270C	06/04/12 16:16	PL	205-99-2	1
Benzo(ghi)perylene	39	ug/L	1	8270C	06/04/12 16:16	PL	191-24-2	1
Benzo(k)fluoranthene	45	ug/L	1	8270C	06/04/12 16:16	PL	207-08-9	1
Butyl benzyl phthalate	50	ug/L	1	8270C	06/04/12 16:16	PL	85-68-7	1
2-Chloronaphthalene	45	ug/L	1	8270C	06/04/12 16:16	PL	91-58-7	1
2-Chlorophenol	39	ug/L	1	8270C	06/04/12 16:16	PL	95-57-8	1
4-Chloro-3-methylphenol	47	ug/L	1	8270C	06/04/12 16:16	PL	59-50-7	1
4-Chloroaniline	32	ug/L	2	8270C	06/04/12 16:16	PL	106-47-8	1
4-Chlorophenyl phenyl ether	50	ug/L	1	8270C	06/04/12 16:16	PL	7005-72-3	1
Caprolactam	7	ug/L	1	8270C	06/04/12 16:16	PL	105-60-2	1
Carbazole	47	ug/L	1	8270C	06/04/12 16:16	PL	86-74-8	1
bis(2-Chloroethoxy)methane	38	ug/L	1	8270C	06/04/12 16:16	PL	111-91-1	1
bis(2-Chloroethyl)ether	37	ug/L	1	8270C	06/04/12 16:16	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	31	ug/L	1	8270C	06/04/12 16:16	PL	108-60-1	1
Chrysene	48	ug/L	1	8270C	06/04/12 16:16	PL	218-01-9	1
2,4-Dichlorophenol	44	ug/L	1	8270C	06/04/12 16:16	PL	120-83-2	1
2,4-Dimethylphenol	45	ug/L	1	8270C	06/04/12 16:16	PL	105-67-9	1
2,4-Dinitrophenol	51	ug/L	1	8270C	06/04/12 16:16	PL	51-28-5	1
2,4-Dinitrotoluene	48	ug/L	1	8270C	06/04/12 16:16	PL	121-14-2	1
2,6-Dinitrotoluene	56	ug/L	1	8270C	06/04/12 16:16	PL	606-20-2	1
4,6-Dinitro-2-methylphenol	41	ug/L	1	8270C	06/04/12 16:16	PL	534-52-1	1
Dibenzo(ah)anthracene	40	ug/L	1	8270C	06/04/12 16:16	PL	53-70-3	1
Dibenzofuran	47	ug/L	1	8270C	06/04/12 16:16	PL	132-64-9	1
Diethyl phthalate	50	ug/L	2	8270C	06/04/12 16:16	PL	84-66-2	1
Dimethyl phthalate	51	ug/L	2	8270C	06/04/12 16:16	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	51	ug/L	2	8270C	06/04/12 16:16	PL	117-81-7	1
Fluoranthene	49	ug/L	1	8270C	06/04/12 16:16	PL	206-44-0	1
Fluorene	49	ug/L	1	8270C	06/04/12 16:16	PL	86-73-7	1
Hexachlorobutadiene	39	ug/L	1	8270C	06/04/12 16:16	PL	87-68-3	1
Hexachlorocyclopentadiene	31	ug/L	1	8270C	06/04/12 16:16	PL	77-47-4	1
Hexachloroethane	33	ug/L	1	8270C	06/04/12 16:16	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	41	ug/L	1	8270C	06/04/12 16:16	PL	193-39-5	1
Isophorone	39	ug/L	1	8270C	06/04/12 16:16	PL	78-59-1	1
2-Methylnaphthalene	40	ug/L	1	8270C	06/04/12 16:16	PL	91-57-6	1
2-Methylphenol	39	ug/L	1	8270C	06/04/12 16:16	PL	95-48-7	1
3-, 4-Methylphenol	81	ug/L	1	8270C	06/04/12 16:16	PL	3/4-Cresol	1
2-Nitroaniline	45	ug/L	1	8270C	06/04/12 16:16	PL	88-74-4	1

1-Sample spiked at 0.052 mg/l



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.05 (continued)

Sample Tag: SB-A5.5-NW195_5-9 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2-Nitrophenol	40	ug/L	1	8270C	06/04/12 16:16	PL	88-75-5	1
3-Nitroaniline	34	ug/L	1	8270C	06/04/12 16:16	PL	99-09-2	1
4-Nitroaniline	45	ug/L	1	8270C	06/04/12 16:16	PL	100-01-6	1
4-Nitrophenol	42	ug/L	1	8270C	06/04/12 16:16	PL	100-02-7	1
N-Nitrosodi-n-propylamine	40	ug/L	1	8270C	06/04/12 16:16	PL	621-64-7	1
N-Nitrosodiphenylamine	35	ug/L	1	8270C	06/04/12 16:16	PL	86-30-6	1
Naphthalene	35	ug/L	1	8270C	06/04/12 16:16	PL	91-20-3	1
Nitrobenzene	38	ug/L	1	8270C	06/04/12 16:16	PL	98-95-3	1
di-n-Octyl phthalate	54	ug/L	1	8270C	06/04/12 16:16	PL	117-84-0	1
Pentachlorophenol	48	ug/L	1	8270C	06/04/12 16:16	PL	87-86-5	1
Phenanthrene	43	ug/L	1	8270C	06/04/12 16:16	PL	85-01-8	1
Phenol	29	ug/L	1	8270C	06/04/12 16:16	PL	108-95-2	1
Pyrene	48	ug/L	1	8270C	06/04/12 16:16	PL	129-00-0	1
2,4,5-Trichlorophenol	50	ug/L	1	8270C	06/04/12 16:16	PL	95-95-4	1
2,4,6-Trichlorophenol	48	ug/L	1	8270C	06/04/12 16:16	PL	88-06-2	1

1-Sample spiked at 0.052 mg/l



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.06
Sample Tag: SB-A5.5-DUP51
Collected Date/Time: 05/25/2012 00:01
Matrix: Soil
COC Reference: 67415

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/31/12 11:21	CCM		
Extraction, PCB	Completed			3550B	05/30/12 16:36	CCM		
Mercury Digestion	Completed			7471A	06/01/12 10:35	JRH		
Metal Digestion	Completed			3050B	06/01/12 09:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	05/29/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/01/12 15:12	PER	7440-36-0	
Arsenic	12.4	mg/kg	0.10	6020	06/01/12 15:12	PER	7440-38-2	
Barium	20.6	mg/kg	1.0	6020	06/01/12 15:12	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/01/12 15:12	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/01/12 15:12	PER	7440-42-8	
Cadmium	0.12	mg/kg	0.10	6020	06/01/12 15:12	PER	7440-43-9	
Chromium	2.27	mg/kg	0.20	6020	06/01/12 15:12	PER	7440-47-3	
Cobalt	1.55	mg/kg	0.20	6020	06/01/12 15:12	PER	7440-48-4	
Copper	10.3	mg/kg	0.20	6020	06/01/12 15:12	PER	7440-50-8	
Lead	9.77	mg/kg	0.20	6020	06/01/12 15:12	PER	7439-92-1	
Manganese	148	mg/kg	0.20	6020	06/01/12 15:12	PER	7439-96-5	
Mercury	0.0127	mg/kg	0.0054	7471A	06/01/12 15:33	JRT	7439-97-6	
Nickel	6.26	mg/kg	0.20	6020	06/01/12 15:12	PER	7440-02-0	
Selenium	0.20	mg/kg	0.20	6020	06/01/12 15:12	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/01/12 15:12	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/01/12 15:12	PER	7440-28-0	
Vanadium	3.84	mg/kg	0.20	6020	06/01/12 15:12	PER	7440-62-2	
Zinc	13.5	mg/kg	1.0	6020	06/01/12 15:12	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	20	8082A	06/01/12 12:20	JANB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	20	8082A	06/01/12 12:20	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	20	8082A	06/01/12 12:20	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	20	8082A	06/01/12 12:20	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	20	8082A	06/01/12 12:20	JANB	12672-29-6	Y
PCB-1254	70	ug/kg	20	8082A	06/01/12 12:20	JANB	11097-69-1	Q
PCB-1260	Not detected	ug/kg	20	8082A	06/01/12 12:20	JANB	11096-82-5	Y

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	83-32-9	X
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Y-Elevated reporting limit due to high target concentration

Q-Reported result represents most abundant aroclor

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.06 (continued)

Sample Tag: SB-A5.5-DUP51

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acenaphthylene	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	98-86-2	X
Anthracene	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	120-12-7	X
Atrazine	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	06/04/12 21:06	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	105-60-2	X
Carbazole	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	108-60-1	X
Chrysene	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	06/04/12 21:06	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	06/04/12 21:06	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	06/04/12 21:06	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	206-44-0	X
Fluorene	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	193-39-5	X
Isophorone	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	06/04/12 21:06	PL	3/4-Cresol	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.06 (continued)

Sample Tag: SB-A5.5-DUP51

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	06/04/12 21:06	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	85-01-8	X
Phenol	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	108-95-2	X
Pyrene	1,100	ug/kg	900	8270C	06/04/12 21:06	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	900	8270C	06/04/12 21:06	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.07
Sample Tag: SB-A5.5-NO196_1-2
Collected Date/Time: 05/25/2012 10:55
Matrix: Soil
COC Reference: 67415

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/31/12 11:21	CCM		
Extraction, PCB	Completed			3550B	05/30/12 16:36	CCM		
Mercury Digestion	Completed			7471A	06/01/12 10:35	JRH		
Metal Digestion	Completed			3050B	06/01/12 09:00	PER		

Inorganics

Total Solids	97	%	1	Std M 2540 B	05/29/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/01/12 15:14	PER	7440-36-0	
Arsenic	7.47	mg/kg	0.10	6020	06/01/12 15:14	PER	7440-38-2	
Barium	9.01	mg/kg	1.0	6020	06/01/12 15:14	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/01/12 15:14	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/01/12 15:14	PER	7440-42-8	
Cadmium	0.29	mg/kg	0.10	6020	06/01/12 15:14	PER	7440-43-9	
Chromium	1.94	mg/kg	0.20	6020	06/01/12 15:14	PER	7440-47-3	
Cobalt	0.96	mg/kg	0.20	6020	06/01/12 15:14	PER	7440-48-4	
Copper	7.48	mg/kg	0.20	6020	06/01/12 15:14	PER	7440-50-8	
Lead	23.2	mg/kg	0.20	6020	06/01/12 15:14	PER	7439-92-1	
Manganese	121	mg/kg	0.20	6020	06/01/12 15:14	PER	7439-96-5	
Mercury	0.0094	mg/kg	0.0051	7471A	06/01/12 15:35	JRT	7439-97-6	
Nickel	5.15	mg/kg	0.20	6020	06/01/12 15:14	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/01/12 15:14	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/01/12 15:14	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/01/12 15:14	PER	7440-28-0	
Vanadium	2.13	mg/kg	0.20	6020	06/01/12 15:14	PER	7440-62-2	
Zinc	73.8	mg/kg	1.0	6020	06/01/12 15:14	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	10	8082A	05/31/12 15:32	JANB	12674-11-2	X
PCB-1242	Not detected	ug/kg	10	8082A	05/31/12 15:32	JANB	53469-21-9	X
PCB-1221	Not detected	ug/kg	10	8082A	05/31/12 15:32	JANB	11104-28-2	X
PCB-1232	Not detected	ug/kg	10	8082A	05/31/12 15:32	JANB	11141-16-5	X
PCB-1248	Not detected	ug/kg	10	8082A	05/31/12 15:32	JANB	12672-29-6	X
PCB-1254	Not detected	ug/kg	10	8082A	05/31/12 15:32	JANB	11097-69-1	X
PCB-1260	Not detected	ug/kg	10	8082A	05/31/12 15:32	JANB	11096-82-5	X

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	208-96-8	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.07 (continued)

Sample Tag: SB-A5.5-NO196_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	98-86-2	
Anthracene	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	120-12-7	
Atrazine	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	100	8270C	06/04/12 19:24	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	100-52-7	
Benzo(a)anthracene	170	ug/kg	70	8270C	06/04/12 19:24	PL	56-55-3	
Benzo(a)pyrene	160	ug/kg	70	8270C	06/04/12 19:24	PL	50-32-8	
Benzo(b)fluoranthene	340	ug/kg	70	8270C	06/04/12 19:24	PL	205-99-2	p
Benzo(ghi)perylene	70	ug/kg	70	8270C	06/04/12 19:24	PL	191-24-2	
Benzo(k)fluoranthene	340	ug/kg	70	8270C	06/04/12 19:24	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	105-60-2	
Carbazole	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	108-60-1	
Chrysene	230	ug/kg	70	8270C	06/04/12 19:24	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	100	8270C	06/04/12 19:24	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	100	8270C	06/04/12 19:24	PL	84-66-2	
Dimethyl phthalate	100	ug/kg	70	8270C	06/04/12 19:24	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	100	8270C	06/04/12 19:24	PL	117-81-7	
Fluoranthene	400	ug/kg	70	8270C	06/04/12 19:24	PL	206-44-0	
Fluorene	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	193-39-5	
Isophorone	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	100	8270C	06/04/12 19:24	PL	3/4-Cresol	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.07 (continued)

Sample Tag: SB-A5.5-NO196_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	86-30-6	
Naphthalene	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	100	8270C	06/04/12 19:24	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	87-86-5	
Phenanthrene	220	ug/kg	70	8270C	06/04/12 19:24	PL	85-01-8	
Phenol	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	108-95-2	
Pyrene	300	ug/kg	70	8270C	06/04/12 19:24	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	70	8270C	06/04/12 19:24	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.08
Sample Tag: SB-A5.5-NT196_0-1
Collected Date/Time: 05/25/2012 11:04
Matrix: Soil
COC Reference: 67415

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/31/12 11:21	CCM		
Extraction, PCB	Completed			3550B	05/30/12 16:36	CCM		
Mercury Digestion	Completed			7471A	06/01/12 10:35	JRH		
Metal Digestion	Completed			3050B	06/01/12 09:30	PER		

Inorganics

Total Solids	96	%	1	Std M 2540 B	05/29/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/01/12 15:27	PER	7440-36-0	
Arsenic	9.05	mg/kg	0.10	6020	06/01/12 15:27	PER	7440-38-2	
Barium	18.5	mg/kg	1.0	6020	06/01/12 15:27	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/01/12 15:27	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/01/12 15:27	PER	7440-42-8	
Cadmium	0.88	mg/kg	0.10	6020	06/01/12 15:27	PER	7440-43-9	
Chromium	2.43	mg/kg	0.20	6020	06/01/12 15:27	PER	7440-47-3	
Cobalt	2.30	mg/kg	0.20	6020	06/01/12 15:27	PER	7440-48-4	
Copper	12.5	mg/kg	0.20	6020	06/01/12 15:27	PER	7440-50-8	
Lead	21.9	mg/kg	0.20	6020	06/01/12 15:27	PER	7439-92-1	
Manganese	239	mg/kg	0.20	6020	06/01/12 15:27	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0053	7471A	06/01/12 15:37	JRT	7439-97-6	
Nickel	5.82	mg/kg	0.20	6020	06/01/12 15:27	PER	7440-02-0	
Selenium	0.21	mg/kg	0.20	6020	06/01/12 15:27	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/01/12 15:27	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/01/12 15:27	PER	7440-28-0	
Vanadium	3.36	mg/kg	0.20	6020	06/01/12 15:27	PER	7440-62-2	
Zinc	46.3	mg/kg	1.0	6020	06/01/12 15:27	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	20	8082A	05/31/12 15:42	JANB	12674-11-2	X
PCB-1242	Not detected	ug/kg	20	8082A	05/31/12 15:42	JANB	53469-21-9	X
PCB-1221	Not detected	ug/kg	20	8082A	05/31/12 15:42	JANB	11104-28-2	X
PCB-1232	Not detected	ug/kg	20	8082A	05/31/12 15:42	JANB	11141-16-5	X
PCB-1248	Not detected	ug/kg	20	8082A	05/31/12 15:42	JANB	12672-29-6	X
PCB-1254	Not detected	ug/kg	20	8082A	05/31/12 15:42	JANB	11097-69-1	X
PCB-1260	Not detected	ug/kg	20	8082A	05/31/12 15:42	JANB	11096-82-5	X

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	208-96-8	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.08 (continued)

Sample Tag: SB-A5.5-NT196_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	98-86-2	
Anthracene	40	ug/kg	30	8270C	06/04/12 19:58	PL	120-12-7	
Atrazine	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/04/12 19:58	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	100-52-7	
Benzo(a)anthracene	180	ug/kg	30	8270C	06/04/12 19:58	PL	56-55-3	
Benzo(a)pyrene	180	ug/kg	30	8270C	06/04/12 19:58	PL	50-32-8	
Benzo(b)fluoranthene	420	ug/kg	30	8270C	06/04/12 19:58	PL	205-99-2	p
Benzo(ghi)perylene	60	ug/kg	30	8270C	06/04/12 19:58	PL	191-24-2	
Benzo(k)fluoranthene	430	ug/kg	30	8270C	06/04/12 19:58	PL	207-08-9	p
Butyl benzyl phthalate	60	ug/kg	30	8270C	06/04/12 19:58	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	105-60-2	
Carbazole	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	108-60-1	
Chrysene	240	ug/kg	30	8270C	06/04/12 19:58	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/04/12 19:58	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/04/12 19:58	PL	84-66-2	
Dimethyl phthalate	50	ug/kg	30	8270C	06/04/12 19:58	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/04/12 19:58	PL	117-81-7	
Fluoranthene	410	ug/kg	30	8270C	06/04/12 19:58	PL	206-44-0	
Fluorene	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	50	ug/kg	30	8270C	06/04/12 19:58	PL	193-39-5	
Isophorone	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/04/12 19:58	PL	3/4-Cresol	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.08 (continued)

Sample Tag: SB-A5.5-NT196_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	86-30-6	
Naphthalene	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/04/12 19:58	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	87-86-5	
Phenanthrene	190	ug/kg	30	8270C	06/04/12 19:58	PL	85-01-8	
Phenol	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	108-95-2	
Pyrene	320	ug/kg	30	8270C	06/04/12 19:58	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	30	8270C	06/04/12 19:58	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.09

Sample Tag: SB-A5.5-NW195_12-13

Collected Date/Time: 05/25/2012 11:06

Matrix: Soil

COC Reference: 67415

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/31/12 11:21	CCM		
Extraction, PCB	Completed			3550B	05/30/12 16:36	CCM		
Mercury Digestion	Completed			7471A	06/01/12 10:35	JRH		
Metal Digestion	Completed			3050B	06/01/12 09:30	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/29/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/01/12 15:32	PER	7440-36-0	
Arsenic	7.91	mg/kg	0.10	6020	06/01/12 15:32	PER	7440-38-2	
Barium	20.5	mg/kg	1.0	6020	06/01/12 15:32	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/01/12 15:32	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/01/12 15:32	PER	7440-42-8	
Cadmium	0.16	mg/kg	0.10	6020	06/01/12 15:32	PER	7440-43-9	
Chromium	2.93	mg/kg	0.21	6020	06/01/12 15:32	PER	7440-47-3	
Cobalt	2.02	mg/kg	0.21	6020	06/01/12 15:32	PER	7440-48-4	
Copper	8.84	mg/kg	0.21	6020	06/01/12 15:32	PER	7440-50-8	
Lead	8.75	mg/kg	0.21	6020	06/01/12 15:32	PER	7439-92-1	
Manganese	150	mg/kg	0.21	6020	06/01/12 15:32	PER	7439-96-5	
Mercury	0.0120	mg/kg	0.0058	7471A	06/01/12 15:39	JRT	7439-97-6	
Nickel	6.04	mg/kg	0.21	6020	06/01/12 15:32	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/01/12 15:32	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/01/12 15:32	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/01/12 15:32	PER	7440-28-0	
Vanadium	4.43	mg/kg	0.21	6020	06/01/12 15:32	PER	7440-62-2	
Zinc	12.5	mg/kg	1.0	6020	06/01/12 15:32	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/31/12 16:03	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/31/12 16:03	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/31/12 16:03	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/31/12 16:03	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/31/12 16:03	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/31/12 16:03	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/31/12 16:03	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	208-96-8	
Acetophenone	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.09 (continued)

Sample Tag: SB-A5.5-NW195_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	120-12-7	
Atrazine	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	400	8270C	06/04/12 21:41	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	100-52-7	
Benzo(a)anthracene	400	ug/kg	200	8270C	06/04/12 21:41	PL	56-55-3	
Benzo(a)pyrene	500	ug/kg	200	8270C	06/04/12 21:41	PL	50-32-8	
Benzo(b)fluoranthene	1,300	ug/kg	200	8270C	06/04/12 21:41	PL	205-99-2	p
Benzo(ghi)perylene	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	191-24-2	
Benzo(k)fluoranthene	1,300	ug/kg	200	8270C	06/04/12 21:41	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	105-60-2	
Carbazole	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	108-60-1	
Chrysene	600	ug/kg	200	8270C	06/04/12 21:41	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	400	8270C	06/04/12 21:41	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	400	8270C	06/04/12 21:41	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	400	8270C	06/04/12 21:41	PL	117-81-7	X
Fluoranthene	600	ug/kg	200	8270C	06/04/12 21:41	PL	206-44-0	
Fluorene	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	193-39-5	
Isophorone	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	400	8270C	06/04/12 21:41	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	88-74-4	

X-Elevated reporting limit due to matrix interference

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.09 (continued)

Sample Tag: SB-A5.5-NW195_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	86-30-6	
Naphthalene	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	400	8270C	06/04/12 21:41	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	85-01-8	
Phenol	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	108-95-2	
Pyrene	600	ug/kg	200	8270C	06/04/12 21:41	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	200	8270C	06/04/12 21:41	PL	88-06-2	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.10
Sample Tag: SB-A5.5-NT196_5-6
Collected Date/Time: 05/25/2012 11:28
Matrix: Soil
COC Reference: 67415

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction Completed 3550B 05/31/12 11:21 CCM

Inorganics

Total Solids 88 % 1 Std M 2540 B 05/29/12 15:00 WAR

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	208-96-8	
Acetophenone	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	98-86-2	
Anthracene	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	120-12-7	
Atrazine	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	8270C	06/05/12 21:09	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	100-52-7	
Benzo(a)anthracene	210	ug/kg	80	8270C	06/05/12 21:09	PL	56-55-3	
Benzo(a)pyrene	200	ug/kg	80	8270C	06/05/12 21:09	PL	50-32-8	
Benzo(b)fluoranthene	430	ug/kg	80	8270C	06/05/12 21:09	PL	205-99-2	p
Benzo(ghi)perylene	110	ug/kg	80	8270C	06/05/12 21:09	PL	191-24-2	
Benzo(k)fluoranthene	460	ug/kg	80	8270C	06/05/12 21:09	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	105-60-2	
Carbazole	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	108-60-1	
Chrysene	240	ug/kg	80	8270C	06/05/12 21:09	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	8270C	06/05/12 21:09	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	132-64-9	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.10 (continued)

Sample Tag: SB-A5.5-NT196_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Diethyl phthalate	Not detected	ug/kg	200	8270C	06/05/12 21:09	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	8270C	06/05/12 21:09	PL	117-81-7	
Fluoranthene	440	ug/kg	80	8270C	06/05/12 21:09	PL	206-44-0	
Fluorene	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	90	ug/kg	80	8270C	06/05/12 21:09	PL	193-39-5	
Isophorone	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	8270C	06/05/12 21:09	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	86-30-6	
Naphthalene	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	8270C	06/05/12 21:09	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	87-86-5	
Phenanthrene	240	ug/kg	80	8270C	06/05/12 21:09	PL	85-01-8	
Phenol	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	108-95-2	
Pyrene	390	ug/kg	80	8270C	06/05/12 21:09	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	80	8270C	06/05/12 21:09	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.11
Sample Tag: SB-A5.5-NT196_5-9
Collected Date/Time: 05/25/2012 11:45
Matrix: Groundwater
COC Reference: 67415

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	3.5	IR
2	40ml Glass	HCL	Yes	3.5	IR
1	125ml Plastic	HNO3	Yes	3.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/31/12 17:30	EMR		
Extraction, PCB	Completed			3510C	06/01/12 12:40	ADB		
Mercury Digestion	Completed			7471A	05/30/12 12:00	JRH		
Metal Digestion	Completed			3015A	05/30/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 19:12	SLS	7440-36-0	
Arsenic, Dissolved	0.016	mg/L	0.002	6020	05/30/12 19:12	SLS	7440-38-2	
Barium, Dissolved	0.079	mg/L	0.010	6020	05/30/12 19:12	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/31/12 15:27	SLS	7440-41-7	
Boron, Dissolved	0.09	mg/L	0.04	6020	05/30/12 19:12	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/30/12 19:12	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 19:12	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 19:12	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 19:12	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 19:12	SLS	7439-92-1	
Manganese, Dissolved	1.22	mg/L	0.010	6020	05/30/12 19:12	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/30/12 15:46	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 19:12	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 19:12	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/30/12 19:12	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 19:12	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 19:12	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 19:12	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	06/01/12 15:20	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	06/01/12 15:20	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	06/01/12 15:20	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	06/01/12 15:20	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	06/01/12 15:20	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	06/01/12 15:20	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	06/01/12 15:20	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/01/12 15:40	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/01/12 15:40	PL	118-74-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.11 (continued)

Sample Tag: SB-A5.5-NT196_5-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	06/04/12 16:45	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	06/04/12 16:45	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	06/04/12 16:45	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	06/04/12 16:45	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	88-75-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.11 (continued)

Sample Tag: SB-A5.5-NT196_5-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	06/04/12 16:45	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	06/07/12 01:59	JGH	123-91-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.12
Sample Tag: SB-A5.5-NT196_5-9 MS
Collected Date/Time: 05/25/2012 11:45
Matrix: Groundwater
COC Reference: 67415

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	3.5	IR
2	40ml Glass	HCL	Yes	3.5	IR
1	125ml Plastic	HNO3	Yes	3.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/31/12 17:30	EMR		
Extraction, PCB	Completed			3510C	06/01/12 12:40	ADB		
Mercury Digestion	Completed			7471A	05/30/12 12:00	JRH		
Metal Digestion	Completed			3015A	05/30/12 01:00	SLR		

Metals

Antimony, Dissolved	0.107	mg/L	0.002	6020	05/30/12 19:16	SLS	7440-36-0	
Arsenic, Dissolved	0.120	mg/L	0.002	6020	05/30/12 19:16	SLS	7440-38-2	
Barium, Dissolved	0.179	mg/L	0.010	6020	05/30/12 19:16	SLS	7440-39-3	
Beryllium, Dissolved	0.0974	mg/L	0.001	6020	05/31/12 15:29	SLS	7440-41-7	
Boron, Dissolved	0.17	mg/L	0.04	6020	05/30/12 19:16	SLS	7440-42-8	
Cadmium, Dissolved	0.102	mg/L	0.001	6020	05/30/12 19:16	SLS	7440-43-9	
Chromium, Dissolved	0.100	mg/L	0.010	6020	05/30/12 19:16	SLS	7440-47-3	
Cobalt, Dissolved	0.100	mg/L	0.010	6020	05/30/12 19:16	SLS	7440-48-4	
Copper, Dissolved	0.097	mg/L	0.002	6020	05/30/12 19:16	SLS	7440-50-8	
Lead, Dissolved	0.100	mg/L	0.002	6020	05/30/12 19:16	SLS	7439-92-1	
Manganese, Dissolved	1.34	mg/L	0.010	6020	05/30/12 19:16	SLS	7439-96-5	
Mercury, Dissolved	0.0020	mg/L	0.0001	7471A	05/30/12 15:48	JRT	7439-97-6	
Nickel, Dissolved	0.101	mg/L	0.010	6020	05/30/12 19:16	SLS	7440-02-0	
Selenium, Dissolved	0.103	mg/L	0.002	6020	05/30/12 19:16	SLS	7782-49-2	
Silver, Dissolved	0.0966	mg/L	0.0002	6020	05/30/12 19:16	SLS	7440-22-4	
Thallium, Dissolved	0.102	mg/L	0.002	6020	05/30/12 19:16	SLS	7440-28-0	
Vanadium, Dissolved	0.102	mg/L	0.002	6020	05/30/12 19:16	SLS	7440-62-2	
Zinc, Dissolved	0.100	mg/L	0.010	6020	05/30/12 19:16	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	0.5	ug/L	0.05	8082A	06/01/12 15:31	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	06/01/12 15:31	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	06/01/12 15:31	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	06/01/12 15:31	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	06/01/12 15:31	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	06/01/12 15:31	JANB	11097-69-1	
PCB-1260	0.5	ug/L	0.05	8082A	06/01/12 15:31	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	28	ug/L	1	8270C	06/04/12 17:15	PL	91-94-1	1
Hexachlorobenzene	44	ug/L	1	8270C	06/04/12 17:15	PL	118-74-1	1

1-Sample spiked at 0.050 mg/l



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.12 (continued)

Sample Tag: SB-A5.5-NT196_5-9 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	42	ug/L	1	8270C	06/04/12 17:15	PL	83-32-9	1
Acenaphthylene	39	ug/L	1	8270C	06/04/12 17:15	PL	208-96-8	1
Acetophenone	40	ug/L	1	8270C	06/04/12 17:15	PL	98-86-2	1
Anthracene	39	ug/L	1	8270C	06/04/12 17:15	PL	120-12-7	1
Atrazine	38	ug/L	1	8270C	06/04/12 17:15	PL	1912-24-9	1
1,1'-Biphenyl	39	ug/L	1	8270C	06/04/12 17:15	PL	92-52-4	1
4-Bromophenyl phenyl ether	43	ug/L	1	8270C	06/04/12 17:15	PL	101-55-3	1
di-n-Butyl phthalate	42	ug/L	1	8270C	06/04/12 17:15	PL	84-74-2	1
Benzaldehyde	32	ug/L	1	8270C	06/04/12 17:15	PL	100-52-7	1
Benzo(a)anthracene	44	ug/L	1	8270C	06/04/12 17:15	PL	56-55-3	1
Benzo(a)pyrene	37	ug/L	1	8270C	06/04/12 17:15	PL	50-32-8	1
Benzo(b)fluoranthene	43	ug/L	1	8270C	06/04/12 17:15	PL	205-99-2	1
Benzo(ghi)perylene	35	ug/L	1	8270C	06/04/12 17:15	PL	191-24-2	1
Benzo(k)fluoranthene	42	ug/L	1	8270C	06/04/12 17:15	PL	207-08-9	1
Butyl benzyl phthalate	45	ug/L	1	8270C	06/04/12 17:15	PL	85-68-7	1
2-Chloronaphthalene	42	ug/L	1	8270C	06/04/12 17:15	PL	91-58-7	1
2-Chlorophenol	36	ug/L	1	8270C	06/04/12 17:15	PL	95-57-8	1
4-Chloro-3-methylphenol	44	ug/L	1	8270C	06/04/12 17:15	PL	59-50-7	1
4-Chloroaniline	33	ug/L	2	8270C	06/04/12 17:15	PL	106-47-8	1
4-Chlorophenyl phenyl ether	46	ug/L	1	8270C	06/04/12 17:15	PL	7005-72-3	1
Caprolactam	6	ug/L	1	8270C	06/04/12 17:15	PL	105-60-2	1
Carbazole	43	ug/L	1	8270C	06/04/12 17:15	PL	86-74-8	1
bis(2-Chloroethoxy)methane	36	ug/L	1	8270C	06/04/12 17:15	PL	111-91-1	1
bis(2-Chloroethyl)ether	34	ug/L	1	8270C	06/04/12 17:15	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	29	ug/L	1	8270C	06/04/12 17:15	PL	108-60-1	1
Chrysene	44	ug/L	1	8270C	06/04/12 17:15	PL	218-01-9	1
2,4-Dichlorophenol	41	ug/L	1	8270C	06/04/12 17:15	PL	120-83-2	1
2,4-Dimethylphenol	40	ug/L	1	8270C	06/04/12 17:15	PL	105-67-9	1
2,4-Dinitrophenol	45	ug/L	1	8270C	06/04/12 17:15	PL	51-28-5	1
2,4-Dinitrotoluene	45	ug/L	1	8270C	06/04/12 17:15	PL	121-14-2	1
2,6-Dinitrotoluene	51	ug/L	1	8270C	06/04/12 17:15	PL	606-20-2	1
4,6-Dinitro-2-methylphenol	37	ug/L	1	8270C	06/04/12 17:15	PL	534-52-1	1
Dibenzo(ah)anthracene	36	ug/L	1	8270C	06/04/12 17:15	PL	53-70-3	1
Dibenzofuran	43	ug/L	1	8270C	06/04/12 17:15	PL	132-64-9	1
Diethyl phthalate	46	ug/L	2	8270C	06/04/12 17:15	PL	84-66-2	1
Dimethyl phthalate	46	ug/L	2	8270C	06/04/12 17:15	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	46	ug/L	2	8270C	06/04/12 17:15	PL	117-81-7	1
Fluoranthene	45	ug/L	1	8270C	06/04/12 17:15	PL	206-44-0	1
Fluorene	44	ug/L	1	8270C	06/04/12 17:15	PL	86-73-7	1
Hexachlorobutadiene	36	ug/L	1	8270C	06/04/12 17:15	PL	87-68-3	1
Hexachlorocyclopentadiene	30	ug/L	1	8270C	06/04/12 17:15	PL	77-47-4	1
Hexachloroethane	31	ug/L	1	8270C	06/04/12 17:15	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	36	ug/L	1	8270C	06/04/12 17:15	PL	193-39-5	1
Isophorone	37	ug/L	1	8270C	06/04/12 17:15	PL	78-59-1	1
2-Methylnaphthalene	38	ug/L	1	8270C	06/04/12 17:15	PL	91-57-6	1
2-Methylphenol	36	ug/L	1	8270C	06/04/12 17:15	PL	95-48-7	1
3-, 4-Methylphenol	76	ug/L	1	8270C	06/04/12 17:15	PL	3/4-Cresol	1
2-Nitroaniline	43	ug/L	1	8270C	06/04/12 17:15	PL	88-74-4	1

1-Sample spiked at 0.050 mg/l



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.12 (continued)

Sample Tag: SB-A5.5-NT196_5-9 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2-Nitrophenol	38	ug/L	1	8270C	06/04/12 17:15	PL	88-75-5	1
3-Nitroaniline	35	ug/L	1	8270C	06/04/12 17:15	PL	99-09-2	1
4-Nitroaniline	43	ug/L	1	8270C	06/04/12 17:15	PL	100-01-6	1
4-Nitrophenol	37	ug/L	1	8270C	06/04/12 17:15	PL	100-02-7	1
N-Nitrosodi-n-propylamine	37	ug/L	1	8270C	06/04/12 17:15	PL	621-64-7	1
N-Nitrosodiphenylamine	32	ug/L	1	8270C	06/04/12 17:15	PL	86-30-6	1
Naphthalene	33	ug/L	1	8270C	06/04/12 17:15	PL	91-20-3	1
Nitrobenzene	36	ug/L	1	8270C	06/04/12 17:15	PL	98-95-3	1
di-n-Octyl phthalate	48	ug/L	1	8270C	06/04/12 17:15	PL	117-84-0	1
Pentachlorophenol	41	ug/L	1	8270C	06/04/12 17:15	PL	87-86-5	1
Phenanthrene	40	ug/L	1	8270C	06/04/12 17:15	PL	85-01-8	1
Phenol	26	ug/L	1	8270C	06/04/12 17:15	PL	108-95-2	1
Pyrene	43	ug/L	1	8270C	06/04/12 17:15	PL	129-00-0	1
2,4,5-Trichlorophenol	46	ug/L	1	8270C	06/04/12 17:15	PL	95-95-4	1
2,4,6-Trichlorophenol	44	ug/L	1	8270C	06/04/12 17:15	PL	88-06-2	1

1-Sample spiked at 0.050 mg/l



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.13
Sample Tag: SB-A5.5-NT196_5-9 MSD
Collected Date/Time: 05/25/2012 11:45
Matrix: Groundwater
COC Reference: 67415

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	3.5	IR
2	40ml Glass	HCL	Yes	3.5	IR
1	125ml Plastic	HNO3	Yes	3.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/31/12 17:30	EMR		
Extraction, PCB	Completed			3510C	06/01/12 12:40	ADB		
Mercury Digestion	Completed			7471A	05/30/12 12:00	JRH		
Metal Digestion	Completed			3015A	05/30/12 01:00	SLR		

Metals

Antimony, Dissolved	0.108	mg/L	0.002	6020	05/30/12 19:20	SLS	7440-36-0	
Arsenic, Dissolved	0.119	mg/L	0.002	6020	05/30/12 19:20	SLS	7440-38-2	
Barium, Dissolved	0.180	mg/L	0.010	6020	05/30/12 19:20	SLS	7440-39-3	
Beryllium, Dissolved	0.0994	mg/L	0.001	6020	05/31/12 15:31	SLS	7440-41-7	
Boron, Dissolved	0.18	mg/L	0.04	6020	05/30/12 19:20	SLS	7440-42-8	
Cadmium, Dissolved	0.104	mg/L	0.001	6020	05/30/12 19:20	SLS	7440-43-9	
Chromium, Dissolved	0.101	mg/L	0.010	6020	05/30/12 19:20	SLS	7440-47-3	
Cobalt, Dissolved	0.100	mg/L	0.010	6020	05/30/12 19:20	SLS	7440-48-4	
Copper, Dissolved	0.097	mg/L	0.002	6020	05/30/12 19:20	SLS	7440-50-8	
Lead, Dissolved	0.101	mg/L	0.002	6020	05/30/12 19:20	SLS	7439-92-1	
Manganese, Dissolved	1.34	mg/L	0.010	6020	05/30/12 19:20	SLS	7439-96-5	
Mercury, Dissolved	0.0021	mg/L	0.0001	7471A	05/30/12 15:51	JRT	7439-97-6	
Nickel, Dissolved	0.100	mg/L	0.010	6020	05/30/12 19:20	SLS	7440-02-0	
Selenium, Dissolved	0.103	mg/L	0.002	6020	05/30/12 19:20	SLS	7782-49-2	
Silver, Dissolved	0.0977	mg/L	0.0002	6020	05/30/12 19:20	SLS	7440-22-4	
Thallium, Dissolved	0.102	mg/L	0.002	6020	05/30/12 19:20	SLS	7440-28-0	
Vanadium, Dissolved	0.102	mg/L	0.002	6020	05/30/12 19:20	SLS	7440-62-2	
Zinc, Dissolved	0.100	mg/L	0.010	6020	05/30/12 19:20	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	0.5	ug/L	0.05	8082A	06/01/12 15:41	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	06/01/12 15:41	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	06/01/12 15:41	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	06/01/12 15:41	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	06/01/12 15:41	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	06/01/12 15:41	JANB	11097-69-1	
PCB-1260	0.5	ug/L	0.05	8082A	06/01/12 15:41	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	33	ug/L	1	8270C	06/04/12 17:44	PL	91-94-1	1
Hexachlorobenzene	49	ug/L	1	8270C	06/04/12 17:44	PL	118-74-1	1

1-Sample spiked at 0.050 mg/l



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.13 (continued)

Sample Tag: SB-A5.5-NT196_5-9 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	44	ug/L	1	8270C	06/04/12 17:44	PL	83-32-9	1
Acenaphthylene	42	ug/L	1	8270C	06/04/12 17:44	PL	208-96-8	1
Acetophenone	43	ug/L	1	8270C	06/04/12 17:44	PL	98-86-2	1
Anthracene	43	ug/L	1	8270C	06/04/12 17:44	PL	120-12-7	1
Atrazine	42	ug/L	1	8270C	06/04/12 17:44	PL	1912-24-9	1
1,1'-Biphenyl	42	ug/L	1	8270C	06/04/12 17:44	PL	92-52-4	1
4-Bromophenyl phenyl ether	49	ug/L	1	8270C	06/04/12 17:44	PL	101-55-3	1
di-n-Butyl phthalate	47	ug/L	1	8270C	06/04/12 17:44	PL	84-74-2	1
Benzaldehyde	34	ug/L	1	8270C	06/04/12 17:44	PL	100-52-7	1
Benzo(a)anthracene	49	ug/L	1	8270C	06/04/12 17:44	PL	56-55-3	1
Benzo(a)pyrene	42	ug/L	1	8270C	06/04/12 17:44	PL	50-32-8	1
Benzo(b)fluoranthene	47	ug/L	1	8270C	06/04/12 17:44	PL	205-99-2	1
Benzo(ghi)perylene	39	ug/L	1	8270C	06/04/12 17:44	PL	191-24-2	1
Benzo(k)fluoranthene	49	ug/L	1	8270C	06/04/12 17:44	PL	207-08-9	1
Butyl benzyl phthalate	50	ug/L	1	8270C	06/04/12 17:44	PL	85-68-7	1
2-Chloronaphthalene	45	ug/L	1	8270C	06/04/12 17:44	PL	91-58-7	1
2-Chlorophenol	38	ug/L	1	8270C	06/04/12 17:44	PL	95-57-8	1
4-Chloro-3-methylphenol	48	ug/L	1	8270C	06/04/12 17:44	PL	59-50-7	1
4-Chloroaniline	34	ug/L	2	8270C	06/04/12 17:44	PL	106-47-8	1
4-Chlorophenyl phenyl ether	50	ug/L	1	8270C	06/04/12 17:44	PL	7005-72-3	1
Caprolactam	7	ug/L	1	8270C	06/04/12 17:44	PL	105-60-2	1
Carbazole	48	ug/L	1	8270C	06/04/12 17:44	PL	86-74-8	1
bis(2-Chloroethoxy)methane	38	ug/L	1	8270C	06/04/12 17:44	PL	111-91-1	1
bis(2-Chloroethyl)ether	35	ug/L	1	8270C	06/04/12 17:44	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	31	ug/L	1	8270C	06/04/12 17:44	PL	108-60-1	1
Chrysene	49	ug/L	1	8270C	06/04/12 17:44	PL	218-01-9	1
2,4-Dichlorophenol	44	ug/L	1	8270C	06/04/12 17:44	PL	120-83-2	1
2,4-Dimethylphenol	43	ug/L	1	8270C	06/04/12 17:44	PL	105-67-9	1
2,4-Dinitrophenol	51	ug/L	1	8270C	06/04/12 17:44	PL	51-28-5	1
2,4-Dinitrotoluene	49	ug/L	1	8270C	06/04/12 17:44	PL	121-14-2	1
2,6-Dinitrotoluene	56	ug/L	1	8270C	06/04/12 17:44	PL	606-20-2	1
4,6-Dinitro-2-methylphenol	42	ug/L	1	8270C	06/04/12 17:44	PL	534-52-1	1
Dibenzo(ah)anthracene	40	ug/L	1	8270C	06/04/12 17:44	PL	53-70-3	1
Dibenzofuran	46	ug/L	1	8270C	06/04/12 17:44	PL	132-64-9	1
Diethyl phthalate	51	ug/L	2	8270C	06/04/12 17:44	PL	84-66-2	1
Dimethyl phthalate	51	ug/L	2	8270C	06/04/12 17:44	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	51	ug/L	2	8270C	06/04/12 17:44	PL	117-81-7	1
Fluoranthene	50	ug/L	1	8270C	06/04/12 17:44	PL	206-44-0	1
Fluorene	48	ug/L	1	8270C	06/04/12 17:44	PL	86-73-7	1
Hexachlorobutadiene	37	ug/L	1	8270C	06/04/12 17:44	PL	87-68-3	1
Hexachlorocyclopentadiene	32	ug/L	1	8270C	06/04/12 17:44	PL	77-47-4	1
Hexachloroethane	32	ug/L	1	8270C	06/04/12 17:44	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	41	ug/L	1	8270C	06/04/12 17:44	PL	193-39-5	1
Isophorone	39	ug/L	1	8270C	06/04/12 17:44	PL	78-59-1	1
2-Methylnaphthalene	41	ug/L	1	8270C	06/04/12 17:44	PL	91-57-6	1
2-Methylphenol	38	ug/L	1	8270C	06/04/12 17:44	PL	95-48-7	1
3-, 4-Methylphenol	80	ug/L	1	8270C	06/04/12 17:44	PL	3/4-Cresol	1
2-Nitroaniline	46	ug/L	1	8270C	06/04/12 17:44	PL	88-74-4	1

1-Sample spiked at 0.050 mg/l



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.13 (continued)

Sample Tag: SB-A5.5-NT196_5-9 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2-Nitrophenol	40	ug/L	1	8270C	06/04/12 17:44	PL	88-75-5	1
3-Nitroaniline	39	ug/L	1	8270C	06/04/12 17:44	PL	99-09-2	1
4-Nitroaniline	48	ug/L	1	8270C	06/04/12 17:44	PL	100-01-6	1
4-Nitrophenol	39	ug/L	1	8270C	06/04/12 17:44	PL	100-02-7	1
N-Nitrosodi-n-propylamine	40	ug/L	1	8270C	06/04/12 17:44	PL	621-64-7	1
N-Nitrosodiphenylamine	36	ug/L	1	8270C	06/04/12 17:44	PL	86-30-6	1
Naphthalene	34	ug/L	1	8270C	06/04/12 17:44	PL	91-20-3	1
Nitrobenzene	37	ug/L	1	8270C	06/04/12 17:44	PL	98-95-3	1
di-n-Octyl phthalate	54	ug/L	1	8270C	06/04/12 17:44	PL	117-84-0	1
Pentachlorophenol	47	ug/L	1	8270C	06/04/12 17:44	PL	87-86-5	1
Phenanthrene	44	ug/L	1	8270C	06/04/12 17:44	PL	85-01-8	1
Phenol	27	ug/L	1	8270C	06/04/12 17:44	PL	108-95-2	1
Pyrene	48	ug/L	1	8270C	06/04/12 17:44	PL	129-00-0	1
2,4,5-Trichlorophenol	50	ug/L	1	8270C	06/04/12 17:44	PL	95-95-4	1
2,4,6-Trichlorophenol	47	ug/L	1	8270C	06/04/12 17:44	PL	88-06-2	1

1-Sample spiked at 0.050 mg/l



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.14
Sample Tag: Trip Blank
Collected Date/Time: 05/25/2012 00:01
Matrix: Groundwater
COC Reference: 67415

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	3.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	06/07/12 02:18	JGH	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	06/07/12 18:35	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	06/07/12 18:35	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	06/07/12 18:35	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	06/07/12 18:35	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	06/07/12 18:35	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/07/12 18:35	WAT		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.14 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	06/07/12 18:35	WAT	96-12-8	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.15

Sample Tag: SB-A5.5-NT196_14-15

Collected Date/Time: 05/25/2012 13:01

Matrix: Soil

COC Reference: 67415

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/31/12 11:21	CCM		
Extraction, PCB	Completed			3550B	05/30/12 16:36	CCM		
Mercury Digestion	Completed			7471A	06/01/12 10:35	JRH		
Metal Digestion	Completed			3050B	06/01/12 09:30	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/29/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/01/12 15:33	PER	7440-36-0	
Arsenic	0.78	mg/kg	0.10	6020	06/01/12 15:33	PER	7440-38-2	
Barium	23.1	mg/kg	1.0	6020	06/01/12 15:33	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/01/12 15:33	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/01/12 15:33	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/01/12 15:33	PER	7440-43-9	
Chromium	2.68	mg/kg	0.20	6020	06/01/12 15:33	PER	7440-47-3	
Cobalt	2.57	mg/kg	0.20	6020	06/01/12 15:33	PER	7440-48-4	
Copper	9.08	mg/kg	0.20	6020	06/01/12 15:33	PER	7440-50-8	
Lead	3.71	mg/kg	0.20	6020	06/01/12 15:33	PER	7439-92-1	
Manganese	227	mg/kg	0.20	6020	06/01/12 15:33	PER	7439-96-5	
Mercury	0.0094	mg/kg	0.0055	7471A	06/01/12 15:41	JRT	7439-97-6	
Nickel	8.77	mg/kg	0.20	6020	06/01/12 15:33	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/01/12 15:33	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/01/12 15:33	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/01/12 15:33	PER	7440-28-0	
Vanadium	5.43	mg/kg	0.20	6020	06/01/12 15:33	PER	7440-62-2	
Zinc	13.4	mg/kg	1.0	6020	06/01/12 15:33	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	05/30/12 18:20	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/30/12 18:20	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/30/12 18:20	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/30/12 18:20	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/30/12 18:20	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/30/12 18:20	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/30/12 18:20	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.15 (continued)

Sample Tag: SB-A5.5-NT196_14-15

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/06/12 17:18	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/06/12 17:18	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/06/12 17:18	PL	84-66-2	
Dimethyl phthalate	40	ug/kg	40	8270C	06/06/12 17:18	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/06/12 17:18	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/06/12 17:18	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.15 (continued)

Sample Tag: SB-A5.5-NT196_14-15

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/06/12 17:18	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 17:18	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.16
Sample Tag: SB-A5.5-NO196_8-9
Collected Date/Time: 05/25/2012 13:18
Matrix: Soil
COC Reference: 67415

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/31/12 11:21	CCM		
Extraction, PCB	Completed			3550B	05/30/12 16:36	CCM		
Mercury Digestion	Completed			7471A	06/01/12 10:35	JRH		
Metal Digestion	Completed			3050B	06/01/12 09:30	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/29/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/01/12 15:35	PER	7440-36-0	
Arsenic	4.01	mg/kg	0.10	6020	06/01/12 15:35	PER	7440-38-2	
Barium	6.19	mg/kg	1.0	6020	06/01/12 15:35	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/01/12 15:35	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/01/12 15:35	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/01/12 15:35	PER	7440-43-9	
Chromium	1.04	mg/kg	0.20	6020	06/01/12 15:35	PER	7440-47-3	
Cobalt	0.86	mg/kg	0.20	6020	06/01/12 15:35	PER	7440-48-4	
Copper	5.73	mg/kg	0.20	6020	06/01/12 15:35	PER	7440-50-8	
Lead	2.72	mg/kg	0.20	6020	06/01/12 15:35	PER	7439-92-1	
Manganese	116	mg/kg	0.20	6020	06/01/12 15:35	PER	7439-96-5	
Mercury	0.0289	mg/kg	0.0057	7471A	06/01/12 15:44	JRT	7439-97-6	
Nickel	4.19	mg/kg	0.20	6020	06/01/12 15:35	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/01/12 15:35	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/01/12 15:35	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/01/12 15:35	PER	7440-28-0	
Vanadium	1.96	mg/kg	0.20	6020	06/01/12 15:35	PER	7440-62-2	
Zinc	6.83	mg/kg	1.0	6020	06/01/12 15:35	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	05/30/12 18:31	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	05/30/12 18:31	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	05/30/12 18:31	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	05/30/12 18:31	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	05/30/12 18:31	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	05/30/12 18:31	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	05/30/12 18:31	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.16 (continued)

Sample Tag: SB-A5.5-NO196_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/06/12 17:53	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	100-52-7	
Benzo(a)anthracene	50	ug/kg	40	8270C	06/06/12 17:53	PL	56-55-3	
Benzo(a)pyrene	40	ug/kg	40	8270C	06/06/12 17:53	PL	50-32-8	
Benzo(b)fluoranthene	80	ug/kg	40	8270C	06/06/12 17:53	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	191-24-2	
Benzo(k)fluoranthene	80	ug/kg	40	8270C	06/06/12 17:53	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	108-60-1	
Chrysene	50	ug/kg	40	8270C	06/06/12 17:53	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/06/12 17:53	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/06/12 17:53	PL	84-66-2	
Dimethyl phthalate	50	ug/kg	40	8270C	06/06/12 17:53	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/06/12 17:53	PL	117-81-7	
Fluoranthene	130	ug/kg	40	8270C	06/06/12 17:53	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/06/12 17:53	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.16 (continued)

Sample Tag: SB-A5.5-NO196_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/06/12 17:53	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	87-86-5	
Phenanthrene	100	ug/kg	40	8270C	06/06/12 17:53	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	108-95-2	
Pyrene	130	ug/kg	40	8270C	06/06/12 17:53	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 17:53	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.17
Sample Tag: SB-A5.5-NO196_5-9
Collected Date/Time: 05/25/2012 13:35
Matrix: Groundwater
COC Reference: 67414

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	3.5	IR
2	40ml Glass	HCL	Yes	3.5	IR
1	125ml Plastic	HNO3	Yes	3.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/31/12 17:30	EMR		
Extraction, PCB	Completed			3510C	05/29/12 12:42	ADB		
Mercury Digestion	Completed			7471A	05/30/12 12:00	JRH		
Metal Digestion	Completed			3015A	05/30/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 19:07	SLS	7440-36-0	
Arsenic, Dissolved	0.011	mg/L	0.002	6020	05/30/12 19:07	SLS	7440-38-2	
Barium, Dissolved	0.061	mg/L	0.010	6020	05/30/12 19:07	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/31/12 15:25	SLS	7440-41-7	
Boron, Dissolved	0.11	mg/L	0.04	6020	05/30/12 19:07	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/30/12 19:07	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 19:07	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 19:07	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 19:07	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 19:07	SLS	7439-92-1	
Manganese, Dissolved	1.46	mg/L	0.010	6020	05/30/12 19:07	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/30/12 15:17	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 19:07	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 19:07	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/30/12 19:07	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 19:07	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 19:07	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 19:07	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/29/12 16:32	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/29/12 16:32	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/29/12 16:32	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/29/12 16:32	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/29/12 16:32	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/29/12 16:32	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/29/12 16:32	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/01/12 16:10	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/01/12 16:10	PL	118-74-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.17 (continued)

Sample Tag: SB-A5.5-NO196_5-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	101-55-3	
di-n-Butyl phthalate	1	ug/L	1	8270C	06/04/12 18:13	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	06/04/12 18:13	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	06/04/12 18:13	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	06/04/12 18:13	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	06/04/12 18:13	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	88-75-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.17 (continued)

Sample Tag: SB-A5.5-NO196_5-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	06/04/12 18:13	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	06/07/12 02:36	JGH	123-91-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.18
Sample Tag: SB-A5.5-DUP52
Collected Date/Time: 05/25/2012 00:01
Matrix: Soil
COC Reference: 67414

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/31/12 11:21	CCM		
Extraction, PCB	Completed			3550B	05/31/12 16:02	ADB		
Mercury Digestion	Completed			7471A	06/01/12 10:35	JRH		
Metal Digestion	Completed			3050B	06/01/12 09:30	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/29/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/01/12 15:37	PER	7440-36-0	
Arsenic	1.99	mg/kg	0.10	6020	06/01/12 15:37	PER	7440-38-2	
Barium	14.9	mg/kg	1.0	6020	06/01/12 15:37	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/01/12 15:37	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/01/12 15:37	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/01/12 15:37	PER	7440-43-9	
Chromium	1.60	mg/kg	0.20	6020	06/01/12 15:37	PER	7440-47-3	
Cobalt	1.17	mg/kg	0.20	6020	06/01/12 15:37	PER	7440-48-4	
Copper	6.15	mg/kg	0.20	6020	06/01/12 15:37	PER	7440-50-8	
Lead	5.37	mg/kg	0.20	6020	06/01/12 15:37	PER	7439-92-1	
Manganese	115	mg/kg	0.20	6020	06/01/12 15:37	PER	7439-96-5	
Mercury	0.0354	mg/kg	0.0056	7471A	06/01/12 15:46	JRT	7439-97-6	
Nickel	4.14	mg/kg	0.20	6020	06/01/12 15:37	PER	7440-02-0	
Selenium	0.28	mg/kg	0.20	6020	06/01/12 15:37	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/01/12 15:37	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/01/12 15:37	PER	7440-28-0	
Vanadium	2.70	mg/kg	0.20	6020	06/01/12 15:37	PER	7440-62-2	
Zinc	9.63	mg/kg	1.0	6020	06/01/12 15:37	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	06/01/12 13:56	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/01/12 13:56	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/01/12 13:56	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/01/12 13:56	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/01/12 13:56	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	06/01/12 13:56	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	06/01/12 13:56	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	98-86-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.18 (continued)

Sample Tag: SB-A5.5-DUP52

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/05/12 14:52	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/05/12 14:52	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/05/12 14:52	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/05/12 14:52	PL	117-81-7	
Fluoranthene	40	ug/kg	40	8270C	06/05/12 14:52	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/05/12 14:52	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	99-09-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52650.18 (continued)

Sample Tag: SB-A5.5-DUP52

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/05/12 14:52	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	108-95-2	
Pyrene	60	ug/kg	40	8270C	06/05/12 14:52	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/05/12 14:52	PL	88-06-2	

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME				Randy Christensen			
COMPANY				ARCADIS			
ADDRESS							
10559 Citation Drive Suite 100							
CITY						STATE	ZIP CODE
Brighton						MI	48116
PHONE NO.			FAX NO.			P.O. NO.	
810-225-1910						PO125047	
E-MAIL ADDRESS						QUOTE NO.	
randy.christensen@arcadis-us.com						Task# 5	

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208		E-MAIL ADDRESS dfavero@racertrust.org	

PROJECT NO./NAME Lansing Plant 2 Project# B0064478 2012	SAMPLER(S) - PLEASE PRINT/SIGN NAME Megan Hicks Megan Hicks Megan Hicks
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER	

DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE:	GW-GROUNDWATER	WW-WASTEWATER	S-SOIL	L=LIQUID	SD-SOLID	# Containers & Preservatives
	SL-SLUDGE	DW-DRINKING WATER	O-OIL	WP-WIPE	A-AIR	

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	HClO ₄	MeOH	MeOH	OTHER
	DATE	TIME											
5/26/01	5-25-02	0833	SB-AS.5-NW195-1-2	S	1	x							
.02		0855	JB-AS.5-NW195-8-9	S	1	x							
03/04/05		0920	SB-AS.5-NW195-5-9	SW	15		x						
.06			SB-AS.5-Dup1	S	1	x							
.07		1055	SB-AS.5-NW196-1-2	S	1	x							
.08		1104	SB-AS.5-NT196-0-1	S	1	x							
.09		1106	SB-AS.5-NW195-12-13	S	1	x							
.10		1128	SB-AS.5-NW196-5-6	S	1	x							
11/12/13		1145	SB-AS.5-NW196-5-9	SW	15	x	x						
.14			TRIP BLANK	L	1		x						
.15		1301	SB-AS.5-NW196-13-14	S	1	x	x						
.16		1318	SB-AS.5-NW196-8-9	S	1	x							

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)									
VOCs, 1,4-Dioxane	SVOCs	PCBs	Metals (w/Hg)						
									Certifications ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES Project Locations ☐ Detroit ☐ New York ☒ Other <u>Lansing</u> Special Instructions
	X	X	X						* hold 1,4 Dioxane
	X	X	X						* metals, PCBs + SVOCs FF.
X	X	X	X						* MS1/MSD (NWAS-5-9)
	X	X	X						
	X	X	X						
	X	X	X						
	X	X	X						
X	X	X	X						* MS1/MSD (NO196-5-9)
X									
	X	X	X						
	X	X	X						

RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>Megan Meckley</i>	☒ Sampler	DATE <i>5/25/12</i>	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>Isaiah Miller</i>		DATE <i>5/25/12</i>	TIME <i>500</i>
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION		<i>Isa W...</i>		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION		<i>Pand...</i>		DATE	TIME
				5-29-12	0800
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES:	TEMP. ON ARRIVAL <u>3.5</u>	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS			



Analytical Laboratory Report

Report ID: S52654.01(01)
Generated on 06/08/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52654.01-S52654.18
Project: Lansing Plant #2 Project# B0064479.2012
Collected Date: 05/24/2012
Submitted Date/Time: 05/29/2012 08:00
Sampled by: M.Meckly
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (18 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52654.01	SB-A5.5-NX188_1-2	Soil	05/24/2012 10:13
S52654.02	SB-A5.5-NX188_7-8	Soil	05/24/2012 10:40
S52654.03	SB-A5.5-NX188_3.5-7.5	Groundwater	05/24/2012 10:52
S52654.04	SB-A5.5-NX188_16-17	Soil	05/24/2012 11:40
S52654.05	SB-A5.5-NU185_2-3	Soil	05/24/2012 12:07
S52654.06	SB-A5.5-NU185_8-9	Soil	05/24/2012 12:15
S52654.07	SB-A5.5-NU185_5-9	Groundwater	05/24/2012 12:28
S52654.08	SB-A5.5-DUP48	Soil	05/24/2012 00:01
S52654.09	SB-A5.5-NU185_16-17	Soil	05/24/2012 13:45
S52654.10	SB-A5.5-NQ185_1-2	Soil	05/24/2012 14:45
S52654.11	SB-A5.5-NQ185_8-9	Soil	05/24/2012 14:50
S52654.12	SB-A5.5-NQ185_15-16	Soil	05/24/2012 15:36
S52654.13	SB-A5.5-NQ185_5-9	Groundwater	05/24/2012 15:00
S52654.14	SB-A5.5-NM187_1-2	Soil	05/24/2012 16:00
S52654.15	SB-A5.5-NM187_8-9	Soil	05/24/2012 16:07
S52654.16	SB-A5.5-NM187_5-9	Groundwater	05/24/2012 16:18
S52654.17	Trip Blank	Water	05/24/2012 00:01
S52654.18	SB-A5.5-NM187_16-17	Soil	05/24/2012 17:05



Analytical Laboratory Report

Lab Sample ID: S52654.01
Sample Tag: SB-A5.5-NX188_1-2
Collected Date/Time: 05/24/2012 10:13
Matrix: Soil
COC Reference: 68850

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/31/12 17:18	EMR		
Extraction, PCB	Completed			3550B	05/31/12 16:02	ADB		
Mercury Digestion	Completed			7471A	06/04/12 15:30	JRH		
Metal Digestion	Completed			3050B	06/01/12 10:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/29/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/01/12 18:44	PER	7440-36-0	
Arsenic	1.16	mg/kg	0.10	6020	06/01/12 18:44	PER	7440-38-2	
Barium	4.94	mg/kg	1.0	6020	06/01/12 18:44	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/01/12 18:44	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/01/12 18:44	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/01/12 18:44	PER	7440-43-9	
Chromium	1.28	mg/kg	0.21	6020	06/01/12 18:44	PER	7440-47-3	
Cobalt	2.05	mg/kg	0.21	6020	06/01/12 18:44	PER	7440-48-4	
Copper	1.29	mg/kg	0.21	6020	06/01/12 18:44	PER	7440-50-8	
Lead	1.66	mg/kg	0.21	6020	06/01/12 18:44	PER	7439-92-1	
Manganese	117	mg/kg	0.21	6020	06/01/12 18:44	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0055	7471A	06/05/12 11:30	JRT	7439-97-6	
Nickel	3.61	mg/kg	0.21	6020	06/01/12 18:44	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/01/12 18:44	PER	7782-49-2	
Silver	0.12	mg/kg	0.10	6020	06/01/12 18:44	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/01/12 18:44	PER	7440-28-0	
Vanadium	2.09	mg/kg	0.21	6020	06/01/12 18:44	PER	7440-62-2	
Zinc	2.87	mg/kg	1.0	6020	06/01/12 18:44	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	06/01/12 14:07	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/01/12 14:07	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/01/12 14:07	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/01/12 14:07	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/01/12 14:07	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	06/01/12 14:07	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	06/01/12 14:07	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52654.01 (continued)

Sample Tag: SB-A5.5-NX188_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/05/12 23:55	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/05/12 23:55	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/05/12 23:55	PL	84-66-2	
Dimethyl phthalate	60	ug/kg	40	8270C	06/05/12 23:55	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/05/12 23:55	PL	117-81-7	
Fluoranthene	40	ug/kg	40	8270C	06/05/12 23:55	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/05/12 23:55	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52654.01 (continued)

Sample Tag: SB-A5.5-NX188_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/05/12 23:55	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/05/12 23:55	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52654.02
Sample Tag: SB-A5.5-NX188_7-8
Collected Date/Time: 05/24/2012 10:40
Matrix: Soil
COC Reference: 68850

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/31/12 17:18	EMR		
Extraction, PCB	Completed			3550B	05/31/12 16:02	ADB		
Mercury Digestion	Completed			7471A	06/04/12 15:30	JRH		
Metal Digestion	Completed			3050B	06/01/12 10:00	PER		

Inorganics

Total Solids	85	%	1	Std M 2540 B	05/29/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/01/12 18:46	PER	7440-36-0	
Arsenic	1.07	mg/kg	0.10	6020	06/01/12 18:46	PER	7440-38-2	
Barium	25.8	mg/kg	1.0	6020	06/01/12 18:46	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/01/12 18:46	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	06/01/12 18:46	PER	7440-42-8	
Cadmium	0.12	mg/kg	0.10	6020	06/01/12 18:46	PER	7440-43-9	
Chromium	2.73	mg/kg	0.21	6020	06/01/12 18:46	PER	7440-47-3	
Cobalt	1.92	mg/kg	0.21	6020	06/01/12 18:46	PER	7440-48-4	
Copper	7.41	mg/kg	0.21	6020	06/01/12 18:46	PER	7440-50-8	
Lead	4.02	mg/kg	0.21	6020	06/01/12 18:46	PER	7439-92-1	
Manganese	170	mg/kg	0.21	6020	06/01/12 18:46	PER	7439-96-5	
Mercury	0.0104	mg/kg	0.0059	7471A	06/05/12 11:33	JRT	7439-97-6	
Nickel	5.44	mg/kg	0.21	6020	06/01/12 18:46	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/01/12 18:46	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/01/12 18:46	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/01/12 18:46	PER	7440-28-0	
Vanadium	5.69	mg/kg	0.21	6020	06/01/12 18:46	PER	7440-62-2	
Zinc	10.8	mg/kg	1.0	6020	06/01/12 18:46	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	06/01/12 15:52	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/01/12 15:52	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/01/12 15:52	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/01/12 15:52	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/01/12 15:52	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	06/01/12 15:52	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	06/01/12 15:52	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52654.02 (continued)

Sample Tag: SB-A5.5-NX188_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/06/12 00:24	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	50-32-8	
Benzo(b)fluoranthene	60	ug/kg	40	8270C	06/06/12 00:24	PL	205-99-2	p
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	191-24-2	
Benzo(k)fluoranthene	60	ug/kg	40	8270C	06/06/12 00:24	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/06/12 00:24	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/06/12 00:24	PL	84-66-2	
Dimethyl phthalate	50	ug/kg	40	8270C	06/06/12 00:24	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/06/12 00:24	PL	117-81-7	
Fluoranthene	40	ug/kg	40	8270C	06/06/12 00:24	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/06/12 00:24	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	88-74-4	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52654.02 (continued)

Sample Tag: SB-A5.5-NX188_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/06/12 00:24	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	108-95-2	
Pyrene	40	ug/kg	40	8270C	06/06/12 00:24	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 00:24	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52654.03
Sample Tag: SB-A5.5-NX188_3.5-7.5
Collected Date/Time: 05/24/2012 10:52
Matrix: Groundwater
COC Reference: 68850

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR
2	40ml Glass	HCL	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/31/12 01:51	EMR		
Extraction, PCB	Completed			3510C	05/29/12 12:42	ADB		
Mercury Digestion	Completed			7471A	05/30/12 12:00	JRH		
Metal Digestion	Completed			3015A	05/30/12 01:00	SLR		

Metals

Antimony, Dissolved	0.002	mg/L	0.002	6020	05/30/12 18:54	SLS	7440-36-0	
Arsenic, Dissolved	0.004	mg/L	0.002	6020	05/30/12 18:54	SLS	7440-38-2	
Barium, Dissolved	0.012	mg/L	0.010	6020	05/30/12 18:54	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/31/12 15:20	SLS	7440-41-7	
Boron, Dissolved	0.11	mg/L	0.04	6020	05/30/12 18:54	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/30/12 18:54	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 18:54	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 18:54	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 18:54	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 18:54	SLS	7439-92-1	
Manganese, Dissolved	0.057	mg/L	0.010	6020	05/30/12 18:54	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/30/12 15:37	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 18:54	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 18:54	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/30/12 18:54	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 18:54	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 18:54	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 18:54	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/29/12 16:43	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/29/12 16:43	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/29/12 16:43	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/29/12 16:43	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/29/12 16:43	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/29/12 16:43	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/29/12 16:43	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.06	8270C	06/01/12 17:09	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.06	8270C	06/01/12 17:09	PL	118-74-1	



Analytical Laboratory Report

Lab Sample ID: S52654.03 (continued)

Sample Tag: SB-A5.5-NX188_3.5-7.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	06/04/12 19:12	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	06/04/12 19:12	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	06/04/12 19:12	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	06/04/12 19:12	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	88-75-5	



Analytical Laboratory Report

Lab Sample ID: S52654.03 (continued)

Sample Tag: SB-A5.5-NX188_3.5-7.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	06/04/12 19:12	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	06/07/12 03:31	JGH	123-91-1	



Analytical Laboratory Report

Lab Sample ID: S52654.04
Sample Tag: SB-A5.5-NX188_16-17
Collected Date/Time: 05/24/2012 11:40
Matrix: Soil
COC Reference: 68850

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/31/12 17:18	EMR		
Extraction, PCB	Completed			3550B	05/31/12 16:02	ADB		
Mercury Digestion	Completed			7471A	06/04/12 15:30	JRH		
Metal Digestion	Completed			3050B	06/01/12 10:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/29/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/01/12 18:48	PER	7440-36-0	
Arsenic	1.97	mg/kg	0.10	6020	06/01/12 18:48	PER	7440-38-2	
Barium	55.4	mg/kg	1.0	6020	06/01/12 18:48	PER	7440-39-3	
Beryllium	0.28	mg/kg	0.21	6020	06/01/12 18:48	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	06/01/12 18:48	PER	7440-42-8	
Cadmium	0.15	mg/kg	0.10	6020	06/01/12 18:48	PER	7440-43-9	
Chromium	4.41	mg/kg	0.21	6020	06/01/12 18:48	PER	7440-47-3	
Cobalt	4.57	mg/kg	0.21	6020	06/01/12 18:48	PER	7440-48-4	
Copper	13.8	mg/kg	0.21	6020	06/01/12 18:48	PER	7440-50-8	
Lead	6.71	mg/kg	0.21	6020	06/01/12 18:48	PER	7439-92-1	
Manganese	301	mg/kg	0.21	6020	06/01/12 18:48	PER	7439-96-5	
Mercury	0.0145	mg/kg	0.0057	7471A	06/05/12 11:35	JRT	7439-97-6	
Nickel	13.2	mg/kg	0.21	6020	06/01/12 18:48	PER	7440-02-0	
Selenium	0.25	mg/kg	0.21	6020	06/01/12 18:48	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/01/12 18:48	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/01/12 18:48	PER	7440-28-0	
Vanadium	7.96	mg/kg	0.21	6020	06/01/12 18:48	PER	7440-62-2	
Zinc	19.5	mg/kg	1.0	6020	06/01/12 18:48	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	06/01/12 16:02	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/01/12 16:02	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/01/12 16:02	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/01/12 16:02	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/01/12 16:02	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	06/01/12 16:02	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	06/01/12 16:02	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52654.04 (continued)

Sample Tag: SB-A5.5-NX188_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/06/12 00:53	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/06/12 00:53	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/06/12 00:53	PL	84-66-2	
Dimethyl phthalate	170	ug/kg	40	8270C	06/06/12 00:53	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/06/12 00:53	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/06/12 00:53	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52654.04 (continued)

Sample Tag: SB-A5.5-NX188_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/06/12 00:53	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 00:53	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52654.05
Sample Tag: SB-A5.5-NU185_2-3
Collected Date/Time: 05/24/2012 12:07
Matrix: Soil
COC Reference: 68850

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/31/12 17:18	EMR		
Extraction, PCB	Completed			3550B	05/31/12 16:02	ADB		
Mercury Digestion	Completed			7471A	06/04/12 15:30	JRH		
Metal Digestion	Completed			3050B	06/01/12 10:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/29/12 13:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/01/12 18:50	PER	7440-36-0	
Arsenic	1.02	mg/kg	0.10	6020	06/01/12 18:50	PER	7440-38-2	
Barium	9.28	mg/kg	1.0	6020	06/01/12 18:50	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/01/12 18:50	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/01/12 18:50	PER	7440-42-8	
Cadmium	0.12	mg/kg	0.10	6020	06/01/12 18:50	PER	7440-43-9	
Chromium	3.19	mg/kg	0.20	6020	06/01/12 18:50	PER	7440-47-3	
Cobalt	7.61	mg/kg	0.20	6020	06/01/12 18:50	PER	7440-48-4	
Copper	4.53	mg/kg	0.20	6020	06/01/12 18:50	PER	7440-50-8	
Lead	5.10	mg/kg	0.20	6020	06/01/12 18:50	PER	7439-92-1	
Manganese	254	mg/kg	0.20	6020	06/01/12 18:50	PER	7439-96-5	
Mercury	0.0175	mg/kg	0.0054	7471A	06/05/12 11:37	JRT	7439-97-6	
Nickel	5.04	mg/kg	0.20	6020	06/01/12 18:50	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/01/12 18:50	PER	7782-49-2	
Silver	0.49	mg/kg	0.10	6020	06/01/12 18:50	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/01/12 18:50	PER	7440-28-0	
Vanadium	4.13	mg/kg	0.20	6020	06/01/12 18:50	PER	7440-62-2	
Zinc	9.46	mg/kg	1.0	6020	06/01/12 18:50	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	06/01/12 14:17	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/01/12 14:17	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/01/12 14:17	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/01/12 14:17	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/01/12 14:17	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	06/01/12 14:17	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	06/01/12 14:17	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	208-96-8	
Acetophenone	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52654.05 (continued)

Sample Tag: SB-A5.5-NU185_2-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	120-12-7	
Atrazine	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	100	8270C	06/06/12 03:48	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	100-52-7	
Benzo(a)anthracene	130	ug/kg	70	8270C	06/06/12 03:48	PL	56-55-3	
Benzo(a)pyrene	130	ug/kg	70	8270C	06/06/12 03:48	PL	50-32-8	I
Benzo(b)fluoranthene	300	ug/kg	70	8270C	06/06/12 03:48	PL	205-99-2	lp
Benzo(ghi)perylene	90	ug/kg	70	8270C	06/06/12 03:48	PL	191-24-2	I
Benzo(k)fluoranthene	310	ug/kg	70	8270C	06/06/12 03:48	PL	207-08-9	lp
Butyl benzyl phthalate	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	105-60-2	
Carbazole	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	108-60-1	
Chrysene	140	ug/kg	70	8270C	06/06/12 03:48	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	100	8270C	06/06/12 03:48	PL	53-70-3	I
Dibenzofuran	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	100	8270C	06/06/12 03:48	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	100	8270C	06/06/12 03:48	PL	117-81-7	
Fluoranthene	290	ug/kg	70	8270C	06/06/12 03:48	PL	206-44-0	
Fluorene	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	193-39-5	I
Isophorone	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	100	8270C	06/06/12 03:48	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	88-74-4	

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S52654.05 (continued)

Sample Tag: SB-A5.5-NU185_2-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	86-30-6	
Naphthalene	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	100	8270C	06/06/12 03:48	PL	117-84-0	I
Pentachlorophenol	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	87-86-5	
Phenanthrene	160	ug/kg	70	8270C	06/06/12 03:48	PL	85-01-8	
Phenol	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	108-95-2	
Pyrene	320	ug/kg	70	8270C	06/06/12 03:48	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	70	8270C	06/06/12 03:48	PL	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	208-96-8	
Acetophenone	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	98-86-2	
Anthracene	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	120-12-7	
Atrazine	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	100	8270C	06/06/12 21:53	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	100-52-7	
Benzo(a)anthracene	130	ug/kg	70	8270C	06/06/12 21:53	PL	56-55-3	I
Benzo(a)pyrene	160	ug/kg	70	8270C	06/06/12 21:53	PL	50-32-8	lp
Benzo(b)fluoranthene	330	ug/kg	70	8270C	06/06/12 21:53	PL	205-99-2	I
Benzo(ghi)perylene	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	191-24-2	I
Benzo(k)fluoranthene	350	ug/kg	70	8270C	06/06/12 21:53	PL	207-08-9	lp
Butyl benzyl phthalate	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	85-68-7	I
2-Chloronaphthalene	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	105-60-2	
Carbazole	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	108-60-1	
Chrysene	130	ug/kg	70	8270C	06/06/12 21:53	PL	218-01-9	I
2,4-Dichlorophenol	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	121-14-2	

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S52654.05 (continued)

Sample Tag: SB-A5.5-NU185_2-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
2,6-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	91-94-1	I
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	100	8270C	06/06/12 21:53	PL	53-70-3	I
Dibenzofuran	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	100	8270C	06/06/12 21:53	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	100	8270C	06/06/12 21:53	PL	117-81-7	I
Fluoranthene	240	ug/kg	70	8270C	06/06/12 21:53	PL	206-44-0	
Fluorene	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	193-39-5	I
Isophorone	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	100	8270C	06/06/12 21:53	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	86-30-6	
Naphthalene	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	100	8270C	06/06/12 21:53	PL	117-84-0	I
Pentachlorophenol	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	87-86-5	
Phenanthrene	160	ug/kg	70	8270C	06/06/12 21:53	PL	85-01-8	
Phenol	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	108-95-2	
Pyrene	410	ug/kg	70	8270C	06/06/12 21:53	PL	129-00-0	I
2,4,5-Trichlorophenol	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	70	8270C	06/06/12 21:53	PL	88-06-2	

I-Matrix interference with internal standard



Analytical Laboratory Report

Lab Sample ID: S52654.06
Sample Tag: SB-A5.5-NU185_8-9
Collected Date/Time: 05/24/2012 12:15
Matrix: Soil
COC Reference: 68850

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/31/12 17:18	EMR		
Extraction, PCB	Completed			3550B	05/31/12 16:02	ADB		
Mercury Digestion	Completed			7471A	06/04/12 15:30	JRH		
Metal Digestion	Completed			3050B	06/01/12 10:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/29/12 13:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/01/12 18:52	PER	7440-36-0	
Arsenic	1.23	mg/kg	0.10	6020	06/01/12 18:52	PER	7440-38-2	
Barium	20.5	mg/kg	1.0	6020	06/01/12 18:52	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/01/12 18:52	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/01/12 18:52	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/01/12 18:52	PER	7440-43-9	
Chromium	3.00	mg/kg	0.20	6020	06/01/12 18:52	PER	7440-47-3	
Cobalt	2.58	mg/kg	0.20	6020	06/01/12 18:52	PER	7440-48-4	
Copper	8.81	mg/kg	0.20	6020	06/01/12 18:52	PER	7440-50-8	
Lead	4.36	mg/kg	0.20	6020	06/01/12 18:52	PER	7439-92-1	
Manganese	218	mg/kg	0.20	6020	06/01/12 18:52	PER	7439-96-5	
Mercury	0.0092	mg/kg	0.0055	7471A	06/05/12 11:39	JRT	7439-97-6	
Nickel	7.39	mg/kg	0.20	6020	06/01/12 18:52	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/01/12 18:52	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/01/12 18:52	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/01/12 18:52	PER	7440-28-0	
Vanadium	5.93	mg/kg	0.20	6020	06/01/12 18:52	PER	7440-62-2	
Zinc	19.1	mg/kg	1.0	6020	06/01/12 18:52	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	06/04/12 13:24	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/04/12 13:24	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/04/12 13:24	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/04/12 13:24	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/04/12 13:24	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	06/04/12 13:24	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	06/04/12 13:24	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	208-96-8	
Acetophenone	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52654.06 (continued)

Sample Tag: SB-A5.5-NU185_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	120-12-7	
Atrazine	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	400	8270C	06/06/12 01:52	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	105-60-2	
Carbazole	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	108-60-1	
Chrysene	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	400	8270C	06/06/12 01:52	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	400	8270C	06/06/12 01:52	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	400	8270C	06/06/12 01:52	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	206-44-0	
Fluorene	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	193-39-5	
Isophorone	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	400	8270C	06/06/12 01:52	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	88-75-5	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52654.06 (continued)

Sample Tag: SB-A5.5-NU185_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	86-30-6	
Naphthalene	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	400	8270C	06/06/12 01:52	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	85-01-8	
Phenol	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	108-95-2	
Pyrene	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	200	8270C	06/06/12 01:52	PL	88-06-2	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52654.07
Sample Tag: SB-A5.5-NU185_5-9
Collected Date/Time: 05/24/2012 12:28
Matrix: Groundwater
COC Reference: 68850

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR
2	40ml Glass	HCL	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/31/12 01:51	EMR		
Extraction, PCB	Completed			3510C	05/29/12 12:42	ADB		
Mercury Digestion	Completed			7471A	05/30/12 12:00	JRH		
Metal Digestion	Completed			3015A	05/30/12 01:00	SLR		

Metals

Antimony, Dissolved	0.003	mg/L	0.002	6020	05/30/12 18:59	SLS	7440-36-0	
Arsenic, Dissolved	0.010	mg/L	0.002	6020	05/30/12 18:59	SLS	7440-38-2	
Barium, Dissolved	0.026	mg/L	0.010	6020	05/30/12 18:59	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/31/12 15:22	SLS	7440-41-7	
Boron, Dissolved	0.18	mg/L	0.04	6020	05/30/12 18:59	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/30/12 18:59	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 18:59	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 18:59	SLS	7440-48-4	
Copper, Dissolved	0.003	mg/L	0.002	6020	05/30/12 18:59	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 18:59	SLS	7439-92-1	
Manganese, Dissolved	0.055	mg/L	0.010	6020	05/30/12 18:59	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/30/12 15:39	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 18:59	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 18:59	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/30/12 18:59	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 18:59	SLS	7440-28-0	
Vanadium, Dissolved	0.002	mg/L	0.002	6020	05/30/12 18:59	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 18:59	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/29/12 16:53	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/29/12 16:53	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/29/12 16:53	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/29/12 16:53	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/29/12 16:53	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/29/12 16:53	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/29/12 16:53	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/01/12 17:39	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/01/12 17:39	PL	118-74-1	



Analytical Laboratory Report

Lab Sample ID: S52654.07 (continued)

Sample Tag: SB-A5.5-NU185_5-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	06/04/12 19:41	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	120-83-2	
2,4-Dimethylphenol	2	ug/L	1	8270C	06/04/12 19:41	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	06/04/12 19:41	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	06/04/12 19:41	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	06/04/12 19:41	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	88-75-5	



Analytical Laboratory Report

Lab Sample ID: S52654.07 (continued)

Sample Tag: SB-A5.5-NU185_5-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	06/04/12 19:41	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	06/07/12 03:49	JGH	123-91-1	



Analytical Laboratory Report

Lab Sample ID: S52654.08
Sample Tag: SB-A5.5-DUP48
Collected Date/Time: 05/24/2012 00:01
Matrix: Soil
COC Reference: 68850

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/31/12 17:18	EMR		
Extraction, PCB	Completed			3550B	05/31/12 16:02	ADB		
Mercury Digestion	Completed			7471A	06/04/12 15:30	JRH		
Metal Digestion	Completed			3050B	06/01/12 10:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/29/12 13:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/01/12 18:54	PER	7440-36-0	
Arsenic	1.36	mg/kg	0.10	6020	06/01/12 18:54	PER	7440-38-2	
Barium	27.6	mg/kg	1.0	6020	06/01/12 18:54	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/01/12 18:54	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/01/12 18:54	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/01/12 18:54	PER	7440-43-9	
Chromium	3.47	mg/kg	0.20	6020	06/01/12 18:54	PER	7440-47-3	
Cobalt	2.55	mg/kg	0.20	6020	06/01/12 18:54	PER	7440-48-4	
Copper	13.9	mg/kg	0.20	6020	06/01/12 18:54	PER	7440-50-8	
Lead	5.78	mg/kg	0.20	6020	06/01/12 18:54	PER	7439-92-1	
Manganese	305	mg/kg	0.20	6020	06/01/12 18:54	PER	7439-96-5	
Mercury	0.0097	mg/kg	0.0056	7471A	06/05/12 11:42	JRT	7439-97-6	
Nickel	8.71	mg/kg	0.20	6020	06/01/12 18:54	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/01/12 18:54	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/01/12 18:54	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/01/12 18:54	PER	7440-28-0	
Vanadium	6.38	mg/kg	0.20	6020	06/01/12 18:54	PER	7440-62-2	
Zinc	14.6	mg/kg	1.0	6020	06/01/12 18:54	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	06/04/12 13:35	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/04/12 13:35	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/04/12 13:35	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/04/12 13:35	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/04/12 13:35	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	06/04/12 13:35	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	06/04/12 13:35	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	208-96-8	
Acetophenone	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52654.08 (continued)

Sample Tag: SB-A5.5-DUP48

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	120-12-7	
Atrazine	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	400	8270C	06/06/12 02:21	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	105-60-2	
Carbazole	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	108-60-1	
Chrysene	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	400	8270C	06/06/12 02:21	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	400	8270C	06/06/12 02:21	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	400	8270C	06/06/12 02:21	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	206-44-0	
Fluorene	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	193-39-5	
Isophorone	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	400	8270C	06/06/12 02:21	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	88-75-5	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52654.08 (continued)

Sample Tag: SB-A5.5-DUP48

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	86-30-6	
Naphthalene	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	400	8270C	06/06/12 02:21	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	85-01-8	
Phenol	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	108-95-2	
Pyrene	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	200	8270C	06/06/12 02:21	PL	88-06-2	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52654.09
Sample Tag: SB-A5.5-NU185_16-17
Collected Date/Time: 05/24/2012 13:45
Matrix: Soil
COC Reference: 68850

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/31/12 17:18	EMR		
Extraction, PCB	Completed			3550B	05/31/12 16:02	ADB		
Mercury Digestion	Completed			7471A	06/04/12 15:30	JRH		
Metal Digestion	Completed			3050B	06/04/12 14:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/29/12 13:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/05/12 13:38	PER	7440-36-0	
Arsenic	1.97	mg/kg	0.10	6020	06/05/12 13:38	PER	7440-38-2	
Barium	19.9	mg/kg	1.0	6020	06/05/12 13:38	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/05/12 13:38	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/05/12 13:38	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/05/12 13:38	PER	7440-43-9	
Chromium	1.95	mg/kg	0.20	6020	06/05/12 13:38	PER	7440-47-3	
Cobalt	1.95	mg/kg	0.20	6020	06/05/12 13:38	PER	7440-48-4	
Copper	5.95	mg/kg	0.20	6020	06/05/12 13:38	PER	7440-50-8	
Lead	3.37	mg/kg	0.20	6020	06/05/12 13:38	PER	7439-92-1	
Manganese	183	mg/kg	0.20	6020	06/05/12 13:38	PER	7439-96-5	
Mercury	0.0087	mg/kg	0.0053	7471A	06/05/12 11:44	JRT	7439-97-6	
Nickel	6.04	mg/kg	0.20	6020	06/05/12 13:38	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/05/12 13:38	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/05/12 13:38	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/05/12 13:38	PER	7440-28-0	
Vanadium	3.72	mg/kg	0.20	6020	06/05/12 13:38	PER	7440-62-2	
Zinc	14.1	mg/kg	1.0	6020	06/05/12 13:38	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	06/01/12 17:05	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/01/12 17:05	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/01/12 17:05	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/01/12 17:05	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/01/12 17:05	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	06/01/12 17:05	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	06/01/12 17:05	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52654.09 (continued)

Sample Tag: SB-A5.5-NU185_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/06/12 01:22	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/06/12 01:22	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/06/12 01:22	PL	84-66-2	
Dimethyl phthalate	50	ug/kg	40	8270C	06/06/12 01:22	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/06/12 01:22	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/06/12 01:22	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52654.09 (continued)

Sample Tag: SB-A5.5-NU185_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/06/12 01:22	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 01:22	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52654.10
Sample Tag: SB-A5.5-NQ185_1-2
Collected Date/Time: 05/24/2012 14:45
Matrix: Soil
COC Reference: 68850

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	05/31/12 17:18	EMR		
Extraction, PCB	Completed			3550B	05/31/12 16:02	ADB		
Mercury Digestion	Completed			7471A	06/04/12 15:30	JRH		
Metal Digestion	Completed			3050B	06/04/12 14:00	PER		

Inorganics

Total Solids	95	%	1	Std M 2540 B	05/29/12 13:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/05/12 13:42	PER	7440-36-0	
Arsenic	0.55	mg/kg	0.10	6020	06/05/12 13:42	PER	7440-38-2	
Barium	8.48	mg/kg	1.0	6020	06/05/12 13:42	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/05/12 13:42	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/05/12 13:42	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/05/12 13:42	PER	7440-43-9	
Chromium	1.11	mg/kg	0.20	6020	06/05/12 13:42	PER	7440-47-3	
Cobalt	1.84	mg/kg	0.20	6020	06/05/12 13:42	PER	7440-48-4	
Copper	2.06	mg/kg	0.20	6020	06/05/12 13:42	PER	7440-50-8	
Lead	2.65	mg/kg	0.20	6020	06/05/12 13:42	PER	7439-92-1	
Manganese	103	mg/kg	0.20	6020	06/05/12 13:42	PER	7439-96-5	
Mercury	0.0088	mg/kg	0.0053	7471A	06/05/12 11:46	JRT	7439-97-6	
Nickel	1.92	mg/kg	0.20	6020	06/05/12 13:42	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/05/12 13:42	PER	7782-49-2	
Silver	0.11	mg/kg	0.10	6020	06/05/12 13:42	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/05/12 13:42	PER	7440-28-0	
Vanadium	1.94	mg/kg	0.20	6020	06/05/12 13:42	PER	7440-62-2	
Zinc	4.10	mg/kg	1.0	6020	06/05/12 13:42	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	06/01/12 14:28	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/01/12 14:28	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/01/12 14:28	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/01/12 14:28	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/01/12 14:28	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	06/01/12 14:28	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	06/01/12 14:28	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	208-96-8	
Acetophenone	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52654.10 (continued)

Sample Tag: SB-A5.5-NQ185_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	120-12-7	
Atrazine	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	100	8270C	06/05/12 20:34	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	50-32-8	I
Benzo(b)fluoranthene	110	ug/kg	70	8270C	06/05/12 20:34	PL	205-99-2	pl
Benzo(ghi)perylene	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	191-24-2	I
Benzo(k)fluoranthene	120	ug/kg	70	8270C	06/05/12 20:34	PL	207-08-9	pl
Butyl benzyl phthalate	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	105-60-2	
Carbazole	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	108-60-1	
Chrysene	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	100	8270C	06/05/12 20:34	PL	53-70-3	I
Dibenzofuran	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	100	8270C	06/05/12 20:34	PL	84-66-2	
Dimethyl phthalate	80	ug/kg	70	8270C	06/05/12 20:34	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	100	8270C	06/05/12 20:34	PL	117-81-7	
Fluoranthene	110	ug/kg	70	8270C	06/05/12 20:34	PL	206-44-0	
Fluorene	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	193-39-5	I
Isophorone	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	100	8270C	06/05/12 20:34	PL	3/4-Cresol	

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52654.10 (continued)

Sample Tag: SB-A5.5-NQ185_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	86-30-6	
Naphthalene	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	100	8270C	06/05/12 20:34	PL	117-84-0	I
Pentachlorophenol	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	87-86-5	
Phenanthrene	70	ug/kg	70	8270C	06/05/12 20:34	PL	85-01-8	
Phenol	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	108-95-2	
Pyrene	110	ug/kg	70	8270C	06/05/12 20:34	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	70	8270C	06/05/12 20:34	PL	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	208-96-8	
Acetophenone	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	98-86-2	
Anthracene	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	120-12-7	
Atrazine	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	100	8270C	06/06/12 19:36	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	50-32-8	I
Benzo(b)fluoranthene	110	ug/kg	70	8270C	06/06/12 19:36	PL	205-99-2	lp
Benzo(ghi)perylene	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	191-24-2	I
Benzo(k)fluoranthene	120	ug/kg	70	8270C	06/06/12 19:36	PL	207-08-9	lp
Butyl benzyl phthalate	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	105-60-2	
Carbazole	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	108-60-1	
Chrysene	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	51-28-5	

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S52654.10 (continued)

Sample Tag: SB-A5.5-NQ185_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
2,4-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	100	8270C	06/06/12 19:36	PL	53-70-3	I
Dibenzofuran	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	100	8270C	06/06/12 19:36	PL	84-66-2	
Dimethyl phthalate	80	ug/kg	70	8270C	06/06/12 19:36	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	100	8270C	06/06/12 19:36	PL	117-81-7	
Fluoranthene	100	ug/kg	70	8270C	06/06/12 19:36	PL	206-44-0	
Fluorene	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	193-39-5	I
Isophorone	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	100	8270C	06/06/12 19:36	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	86-30-6	
Naphthalene	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	100	8270C	06/06/12 19:36	PL	117-84-0	I
Pentachlorophenol	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	87-86-5	
Phenanthrene	70	ug/kg	70	8270C	06/06/12 19:36	PL	85-01-8	
Phenol	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	108-95-2	
Pyrene	100	ug/kg	70	8270C	06/06/12 19:36	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	70	8270C	06/06/12 19:36	PL	88-06-2	

I-Matrix interference with internal standard

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52654.11
Sample Tag: SB-A5.5-NQ185_8-9
Collected Date/Time: 05/24/2012 14:50
Matrix: Soil
COC Reference: 68850

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/01/12 19:05	EMR		
Extraction, PCB	Completed			3550B	05/31/12 16:02	ADB		
Mercury Digestion	Completed			7471A	06/04/12 15:30	JRH		
Metal Digestion	Completed			3050B	06/04/12 14:00	PER		

Inorganics

Total Solids	84	%	1	Std M 2540 B	05/29/12 13:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/05/12 13:44	PER	7440-36-0	
Arsenic	0.27	mg/kg	0.10	6020	06/05/12 13:44	PER	7440-38-2	
Barium	31.7	mg/kg	1.0	6020	06/05/12 13:44	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/05/12 13:44	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/05/12 13:44	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/05/12 13:44	PER	7440-43-9	
Chromium	2.08	mg/kg	0.21	6020	06/05/12 13:44	PER	7440-47-3	
Cobalt	0.88	mg/kg	0.21	6020	06/05/12 13:44	PER	7440-48-4	
Copper	1.97	mg/kg	0.21	6020	06/05/12 13:44	PER	7440-50-8	
Lead	4.68	mg/kg	0.21	6020	06/05/12 13:44	PER	7439-92-1	
Manganese	33.0	mg/kg	0.21	6020	06/05/12 13:44	PER	7439-96-5	
Mercury	0.0236	mg/kg	0.006	7471A	06/05/12 11:48	JRT	7439-97-6	
Nickel	1.43	mg/kg	0.21	6020	06/05/12 13:44	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/05/12 13:44	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/05/12 13:44	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/05/12 13:44	PER	7440-28-0	
Vanadium	6.04	mg/kg	0.21	6020	06/05/12 13:44	PER	7440-62-2	
Zinc	7.72	mg/kg	1.0	6020	06/05/12 13:44	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	06/01/12 17:16	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/01/12 17:16	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/01/12 17:16	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/01/12 17:16	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/01/12 17:16	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	06/01/12 17:16	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	06/01/12 17:16	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52654.11 (continued)

Sample Tag: SB-A5.5-NQ185_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/06/12 13:49	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	50-32-8	
Benzo(b)fluoranthene	50	ug/kg	40	8270C	06/06/12 13:49	PL	205-99-2	p
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	191-24-2	
Benzo(k)fluoranthene	50	ug/kg	40	8270C	06/06/12 13:49	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/06/12 13:49	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/06/12 13:49	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/06/12 13:49	PL	117-81-7	
Fluoranthene	60	ug/kg	40	8270C	06/06/12 13:49	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/06/12 13:49	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	88-75-5	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S52654.11 (continued)

Sample Tag: SB-A5.5-NQ185_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/06/12 13:49	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	108-95-2	
Pyrene	50	ug/kg	40	8270C	06/06/12 13:49	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 13:49	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52654.12
Sample Tag: SB-A5.5-NQ185_15-16
Collected Date/Time: 05/24/2012 15:36
Matrix: Soil
COC Reference: 68850

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/01/12 19:05	EMR		
Extraction, PCB	Completed			3550B	05/31/12 16:02	ADB		
Mercury Digestion	Completed			7471A	06/05/12 08:00	JRH		
Metal Digestion	Completed			3050B	06/04/12 14:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/29/12 13:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/05/12 13:46	PER	7440-36-0	
Arsenic	0.90	mg/kg	0.10	6020	06/05/12 13:46	PER	7440-38-2	
Barium	32.7	mg/kg	1.0	6020	06/05/12 13:46	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/05/12 13:46	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/05/12 13:46	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/05/12 13:46	PER	7440-43-9	
Chromium	2.02	mg/kg	0.20	6020	06/05/12 13:46	PER	7440-47-3	
Cobalt	1.77	mg/kg	0.20	6020	06/05/12 13:46	PER	7440-48-4	
Copper	5.76	mg/kg	0.20	6020	06/05/12 13:46	PER	7440-50-8	
Lead	5.60	mg/kg	0.20	6020	06/05/12 13:46	PER	7439-92-1	
Manganese	177	mg/kg	0.20	6020	06/05/12 13:46	PER	7439-96-5	
Mercury	0.0082	mg/kg	0.0055	7471A	06/05/12 12:11	JRT	7439-97-6	
Nickel	5.34	mg/kg	0.20	6020	06/05/12 13:46	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/05/12 13:46	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/05/12 13:46	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/05/12 13:46	PER	7440-28-0	
Vanadium	4.04	mg/kg	0.20	6020	06/05/12 13:46	PER	7440-62-2	
Zinc	8.92	mg/kg	1.0	6020	06/05/12 13:46	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	06/01/12 17:26	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/01/12 17:26	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/01/12 17:26	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/01/12 17:26	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/01/12 17:26	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	06/01/12 17:26	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	06/01/12 17:26	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52654.12 (continued)

Sample Tag: SB-A5.5-NQ185_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/06/12 14:18	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/06/12 14:18	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/06/12 14:18	PL	84-66-2	
Dimethyl phthalate	40	ug/kg	40	8270C	06/06/12 14:18	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/06/12 14:18	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/06/12 14:18	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52654.12 (continued)

Sample Tag: SB-A5.5-NQ185_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/06/12 14:18	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 14:18	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52654.13
Sample Tag: SB-A5.5-NQ185_5-9
Collected Date/Time: 05/24/2012 15:00
Matrix: Groundwater
COC Reference: 68875

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR
2	40ml Glass	HCL	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/31/12 01:51	EMR		
Extraction, PCB	Completed			3510C	05/29/12 12:42	ADB		
Mercury Digestion	Completed			7471A	05/30/12 12:00	JRH		
Metal Digestion	Completed			3015A	05/30/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 19:03	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 19:03	SLS	7440-38-2	
Barium, Dissolved	0.020	mg/L	0.010	6020	05/30/12 19:03	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	05/31/12 15:23	SLS	7440-41-7	
Boron, Dissolved	0.11	mg/L	0.04	6020	05/30/12 19:03	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	05/30/12 19:03	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 19:03	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 19:03	SLS	7440-48-4	
Copper, Dissolved	0.002	mg/L	0.002	6020	05/30/12 19:03	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 19:03	SLS	7439-92-1	
Manganese, Dissolved	0.052	mg/L	0.010	6020	05/30/12 19:03	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/30/12 15:42	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 19:03	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 19:03	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	05/30/12 19:03	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 19:03	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	05/30/12 19:03	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	05/30/12 19:03	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/29/12 17:04	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/29/12 17:04	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/29/12 17:04	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/29/12 17:04	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/29/12 17:04	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/29/12 17:04	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/29/12 17:04	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/01/12 18:09	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/01/12 18:09	PL	118-74-1	



Analytical Laboratory Report

Lab Sample ID: S52654.13 (continued)

Sample Tag: SB-A5.5-NQ185_5-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	06/04/12 20:10	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	06/04/12 20:10	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	06/04/12 20:10	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	06/04/12 20:10	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	88-75-5	



Analytical Laboratory Report

Lab Sample ID: S52654.13 (continued)

Sample Tag: SB-A5.5-NQ185_5-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	06/04/12 20:10	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	06/07/12 04:07	JGH	123-91-1	



Analytical Laboratory Report

Lab Sample ID: S52654.14
Sample Tag: SB-A5.5-NM187_1-2
Collected Date/Time: 05/24/2012 16:00
Matrix: Soil
COC Reference: 68875

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/01/12 19:05	EMR		
Extraction, PCB	Completed			3550B	05/31/12 16:02	ADB		
Mercury Digestion	Completed			7471A	06/05/12 08:00	JRH		
Metal Digestion	Completed			3050B	06/04/12 14:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/29/12 13:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/05/12 13:48	PER	7440-36-0	
Arsenic	1.34	mg/kg	0.10	6020	06/05/12 13:48	PER	7440-38-2	
Barium	59.0	mg/kg	1.0	6020	06/05/12 13:48	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/05/12 13:48	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/05/12 13:48	PER	7440-42-8	
Cadmium	0.79	mg/kg	0.10	6020	06/05/12 13:48	PER	7440-43-9	
Chromium	2.97	mg/kg	0.20	6020	06/05/12 13:48	PER	7440-47-3	
Cobalt	8.44	mg/kg	0.20	6020	06/05/12 13:48	PER	7440-48-4	
Copper	7.72	mg/kg	0.20	6020	06/05/12 13:48	PER	7440-50-8	
Lead	144	mg/kg	0.20	6020	06/05/12 13:48	PER	7439-92-1	
Manganese	152	mg/kg	0.20	6020	06/05/12 13:48	PER	7439-96-5	
Mercury	0.0221	mg/kg	0.0056	7471A	06/05/12 12:13	JRT	7439-97-6	
Nickel	4.37	mg/kg	0.20	6020	06/05/12 13:48	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/05/12 13:48	PER	7782-49-2	
Silver	0.73	mg/kg	0.10	6020	06/05/12 13:48	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/05/12 13:48	PER	7440-28-0	
Vanadium	2.90	mg/kg	0.20	6020	06/05/12 13:48	PER	7440-62-2	
Zinc	77.6	mg/kg	1.0	6020	06/05/12 13:48	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	06/01/12 14:38	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/01/12 14:38	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/01/12 14:38	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/01/12 14:38	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/01/12 14:38	JANB	12672-29-6	
PCB-1254	6	ug/kg	3	8082A	06/01/12 14:38	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	06/01/12 14:38	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	400	ug/kg	100	8270C	06/06/12 21:38	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	208-96-8	
Acetophenone	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52654.14 (continued)

Sample Tag: SB-A5.5-NM187_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	900	ug/kg	100	8270C	06/06/12 21:38	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	300	8270C	06/06/12 21:38	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	100-52-7	
Benzo(a)anthracene	2,000	ug/kg	100	8270C	06/06/12 21:38	PL	56-55-3	
Benzo(a)pyrene	1,800	ug/kg	100	8270C	06/06/12 21:38	PL	50-32-8	
Benzo(b)fluoranthene	3,400	ug/kg	100	8270C	06/06/12 21:38	PL	205-99-2	p
Benzo(ghi)perylene	900	ug/kg	100	8270C	06/06/12 21:38	PL	191-24-2	
Benzo(k)fluoranthene	3,500	ug/kg	100	8270C	06/06/12 21:38	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	105-60-2	
Carbazole	600	ug/kg	100	8270C	06/06/12 21:38	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	108-60-1	
Chrysene	2,100	ug/kg	100	8270C	06/06/12 21:38	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	8270C	06/06/12 21:38	PL	53-70-3	
Dibenzofuran	200	ug/kg	100	8270C	06/06/12 21:38	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	300	8270C	06/06/12 21:38	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	300	8270C	06/06/12 21:38	PL	117-81-7	
Fluoranthene	5,200	ug/kg	100	8270C	06/06/12 21:38	PL	206-44-0	
Fluorene	500	ug/kg	100	8270C	06/06/12 21:38	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	900	ug/kg	100	8270C	06/06/12 21:38	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	300	8270C	06/06/12 21:38	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	88-75-5	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S52654.14 (continued)

Sample Tag: SB-A5.5-NM187_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	86-30-6	
Naphthalene	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	300	8270C	06/06/12 21:38	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	87-86-5	
Phenanthrene	3,800	ug/kg	100	8270C	06/06/12 21:38	PL	85-01-8	
Phenol	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	108-95-2	
Pyrene	4,300	ug/kg	100	8270C	06/06/12 21:38	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	100	8270C	06/06/12 21:38	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52654.15
Sample Tag: SB-A5.5-NM187_8-9
Collected Date/Time: 05/24/2012 16:07
Matrix: Soil
COC Reference: 68875

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/01/12 19:05	EMR		
Extraction, PCB	Completed			3550B	05/31/12 16:02	ADB		
Mercury Digestion	Completed			7471A	06/05/12 08:00	JRH		
Metal Digestion	Completed			3050B	06/04/12 14:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/29/12 13:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/05/12 13:50	PER	7440-36-0	
Arsenic	0.37	mg/kg	0.10	6020	06/05/12 13:50	PER	7440-38-2	
Barium	3.67	mg/kg	1.0	6020	06/05/12 13:50	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/05/12 13:50	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/05/12 13:50	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/05/12 13:50	PER	7440-43-9	
Chromium	1.09	mg/kg	0.20	6020	06/05/12 13:50	PER	7440-47-3	
Cobalt	1.03	mg/kg	0.20	6020	06/05/12 13:50	PER	7440-48-4	
Copper	4.24	mg/kg	0.20	6020	06/05/12 13:50	PER	7440-50-8	
Lead	1.27	mg/kg	0.20	6020	06/05/12 13:50	PER	7439-92-1	
Manganese	66.3	mg/kg	0.20	6020	06/05/12 13:50	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0055	7471A	06/05/12 12:16	JRT	7439-97-6	
Nickel	3.27	mg/kg	0.20	6020	06/05/12 13:50	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/05/12 13:50	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/05/12 13:50	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/05/12 13:50	PER	7440-28-0	
Vanadium	2.07	mg/kg	0.20	6020	06/05/12 13:50	PER	7440-62-2	
Zinc	3.42	mg/kg	1.0	6020	06/05/12 13:50	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	06/01/12 17:37	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/01/12 17:37	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/01/12 17:37	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/01/12 17:37	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/01/12 17:37	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	06/01/12 17:37	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	06/01/12 17:37	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52654.15 (continued)

Sample Tag: SB-A5.5-NM187_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/06/12 14:48	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/06/12 14:48	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/06/12 14:48	PL	84-66-2	
Dimethyl phthalate	100	ug/kg	40	8270C	06/06/12 14:48	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/06/12 14:48	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/06/12 14:48	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52654.15 (continued)

Sample Tag: SB-A5.5-NM187_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/06/12 14:48	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 14:48	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52654.16
Sample Tag: SB-A5.5-NM187_5-9
Collected Date/Time: 05/24/2012 16:18
Matrix: Groundwater
COC Reference: 68875

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR
2	40ml Glass	HCL	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	05/31/12 01:51	EMR		
Extraction, PCB	Completed			3510C	05/29/12 12:42	ADB		
Mercury Digestion	Completed			7471A	05/30/12 12:00	JRH		
Metal Digestion	Completed			3015A	06/07/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 21:32	SLS	7440-36-0	
Arsenic, Dissolved	0.003	mg/L	0.002	6020	06/07/12 21:32	SLS	7440-38-2	
Barium, Dissolved	0.069	mg/L	0.010	6020	06/07/12 21:32	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 21:32	SLS	7440-41-7	
Boron, Dissolved	0.11	mg/L	0.04	6020	06/07/12 21:32	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 21:32	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 21:32	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 21:32	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 21:32	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 21:32	SLS	7439-92-1	
Manganese, Dissolved	0.049	mg/L	0.010	6020	06/07/12 21:32	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	05/30/12 15:44	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 21:32	SLS	7440-02-0	
Selenium, Dissolved	0.006	mg/L	0.002	6020	06/07/12 21:32	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	06/07/12 21:32	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 21:32	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 21:32	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 21:32	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List Dissolved (Column 1)

PCB-1016	Not detected	ug/L	0.05	8082A	05/30/12 13:46	JANB	12674-11-2	
PCB-1242	Not detected	ug/L	0.05	8082A	05/30/12 13:46	JANB	53469-21-9	
PCB-1221	Not detected	ug/L	0.05	8082A	05/30/12 13:46	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.05	8082A	05/30/12 13:46	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.05	8082A	05/30/12 13:46	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.05	8082A	05/30/12 13:46	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	8082A	05/30/12 13:46	JANB	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/01/12 18:38	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/01/12 18:38	PL	118-74-1	



Analytical Laboratory Report

Lab Sample ID: S52654.16 (continued)

Sample Tag: SB-A5.5-NM187_5-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	06/04/12 20:39	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	06/04/12 20:39	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	06/04/12 20:39	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	06/04/12 20:39	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	88-75-5	



Analytical Laboratory Report

Lab Sample ID: S52654.16 (continued)

Sample Tag: SB-A5.5-NM187_5-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
3-Nitroaniline	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	06/04/12 20:39	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	06/07/12 04:25	JGH	123-91-1	



Analytical Laboratory Report

Lab Sample ID: S52654.17
Sample Tag: Trip Blank
Collected Date/Time: 05/24/2012 00:01
Matrix: Water
COC Reference: 68875

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	06/05/12 22:03	JGH	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	06/07/12 16:22	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	06/07/12 16:22	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	06/07/12 16:22	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	06/07/12 16:22	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	06/07/12 16:22	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/07/12 16:22	WAT		



Analytical Laboratory Report

Lab Sample ID: S52654.17 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	06/07/12 16:22	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S52654.18
Sample Tag: SB-A5.5-NM187_16-17
Collected Date/Time: 05/24/2012 17:05
Matrix: Soil
COC Reference: 68875

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/01/12 19:05	EMR		
Extraction, PCB	Completed			3550B	05/31/12 16:02	ADB		
Mercury Digestion	Completed			7471A	06/05/12 08:00	JRH		
Metal Digestion	Completed			3050B	06/04/12 14:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/29/12 13:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/05/12 13:52	PER	7440-36-0	
Arsenic	1.91	mg/kg	0.10	6020	06/05/12 13:52	PER	7440-38-2	
Barium	23.3	mg/kg	1.0	6020	06/05/12 13:52	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/05/12 13:52	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/05/12 13:52	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/05/12 13:52	PER	7440-43-9	
Chromium	2.62	mg/kg	0.20	6020	06/05/12 13:52	PER	7440-47-3	
Cobalt	2.71	mg/kg	0.20	6020	06/05/12 13:52	PER	7440-48-4	
Copper	7.47	mg/kg	0.20	6020	06/05/12 13:52	PER	7440-50-8	
Lead	3.94	mg/kg	0.20	6020	06/05/12 13:52	PER	7439-92-1	
Manganese	196	mg/kg	0.20	6020	06/05/12 13:52	PER	7439-96-5	
Mercury	0.0095	mg/kg	0.0054	7471A	06/05/12 12:18	JRT	7439-97-6	
Nickel	7.17	mg/kg	0.20	6020	06/05/12 13:52	PER	7440-02-0	
Selenium	0.21	mg/kg	0.20	6020	06/05/12 13:52	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/05/12 13:52	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/05/12 13:52	PER	7440-28-0	
Vanadium	5.08	mg/kg	0.20	6020	06/05/12 13:52	PER	7440-62-2	
Zinc	11.9	mg/kg	1.0	6020	06/05/12 13:52	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	06/01/12 17:47	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/01/12 17:47	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/01/12 17:47	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/01/12 17:47	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/01/12 17:47	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	06/01/12 17:47	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	06/01/12 17:47	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52654.18 (continued)

Sample Tag: SB-A5.5-NM187_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/06/12 15:17	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/06/12 15:17	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/06/12 15:17	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/06/12 15:17	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/06/12 15:17	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	99-09-2	



Analytical Laboratory Report

Lab Sample ID: S52654.18 (continued)

Sample Tag: SB-A5.5-NM187_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/06/12 15:17	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 15:17	PL	88-06-2	



2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

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REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Randy Christensen			
COMPANY ARCADIS			
ADDRESS 10559 Citation Drive Suite 100			
CITY Brighton		STATE MI	ZIP CODE 48116
PHONE NO. 810-225-1910	FAX NO.	P.O. NO. PO 135047	
E-MAIL ADDRESS randy.christensen@arcadis-us.com		QUOTE NO. Task# 5	

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208	E-MAIL ADDRESS dfavero@racertrust.org		

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Lansing Plant 2 Project# 800644 79 2012	SAMPLER(S) - PLEASE PRINT/SIGN NAME Megan Meckley / meja meckley
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER	
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER	

MATRIX CODE:	GW=GROUNDWATER	WW=WASTEWATER	S=SOIL	L=LIQUID	SD=SOLID
	SL=SLUDGE	DW=DRINKING WATER	O=OIL	WP=WIPE	A=AIR

Containers & Preservatives

MERIT LAB NO.	YEAR	DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	PC	HNO3	H2SO4	NaOH	MuOH	OTHER
52654.01		5/24/12	1013	SB-AS.5-NX188-1-2	S	1	V						
.02			1040	SB-AS.5-NX188-7-8	S	1	X						
.03			1052	SB-AS.5-NX188-35-75	GW	5	X						
.04			1140	SB-AS.5-NX188-16-17	S	1	X						
.05			1207	SB-AS.5-NU195-2-3	S	1	X						
.06			1215	SB-AS.5-NU195-8-9	S	1	X						
.07			1228	SB-AS.5-NU195-5-9	GW	5	X						
.08				SB-AS.5-DUP48	S	1	X						
.09			1345	SB-AS.5-NU195-16-17	S	1	X						
.10			1445	SB-AS.5-NQ185-1-2	S	1	X						
.11			1450	SB-AS.5-NQ185-8-9	S	1	X						
.12			1536	SB-AS.5-NQ185-15-16	S	1	X						

VOCs	SVOCs	PCBs	Metals (w/Hg)
	X	X	X
	X	X	X
X	X	X	X
	X	X	X
	X	X	X
X	X	X	X
	X	X	X
	X	X	X
	X	X	X
	X	X	X
	X	X	X

Certifications	
☐ OHIO VAP	☐ Drinking Water
☐ DoD	☐ NPDES
Project Locations	
☐ Detroit	☐ New York
☒ Other Lansing	
Special Instructions	

- hold 1,4 dioxane
- metals, SVOCs
PCBs field filtered.

RELINQUISHED BY: Megan Meckley	☐ Sampler	DATE 5-25-12	TIME 9:00
SIGNATURE/ORGANIZATION		DATE 5-25-12	TIME 9:00
RELINQUISHED BY: ME		DATE	TIME
SIGNATURE/ORGANIZATION		DATE	TIME
RELINQUISHED BY:		DATE	TIME
SIGNATURE/ORGANIZATION		DATE	TIME

RELINQUISHED BY:	DATE	TIME
SIGNATURE/ORGANIZATION		
RELINQUISHED BY: Andrew Ball	DATE 29 MAY 12	TIME 08:00
SIGNATURE/ORGANIZATION		
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
NOTES:		TEMP. ON ARRIVAL 4.7



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C.O.C. PAGE # 2 OF 2

68875

INVOICE TO

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208	E-MAIL ADDRESS dfavero@racetrust.org		
ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)			

[illegible]

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 4.7
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

Rev. 1.15.12



Analytical Laboratory Report

Report ID: S52669.01(01)
Generated on 06/12/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52669.01-S52669.14
Project: Lansing Plant #2 Project# B0064479.2012
Collected Date: 05/29/2012
Submitted Date/Time: 05/30/2012 09:30
Sampled by: Megan Meckley
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (14 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52669.01	SB-A5.5-NL193_1-2	Soil	05/29/2012 09:30
S52669.02	SB-A5.5-NL193_8-9	Soil	05/29/2012 09:55
S52669.03	SB-A5.5-NL193_8-9 MS	Soil	05/29/2012 09:55
S52669.04	SB-A5.5-NL193_8-9 MSD	Soil	05/29/2012 09:55
S52669.05	SB-A5.5-NL193_4.5-8.5	Groundwater	05/29/2012 10:15
S52669.06	SB-A5.5-DUP60	Groundwater	05/29/2012 00:01
S52669.07	Trip Blank	Groundwater	05/29/2012 00:01
S52669.08	SB-A5.5-NL193_14.5-15	Soil	05/29/2012 11:10
S52669.09	SB-A5.5-NL193_16-17	Soil	05/29/2012 11:15
S52669.10	SB-A5.5-NO196B_16-17	Soil	05/29/2012 13:47
S52669.11	SB-A5.5-NW194_0-1	Soil	05/29/2012 14:40
S52669.12	SB-A5.5-NW194_7.5-8.5	Soil	05/29/2012 14:50
S52669.13	SB-A5.5-NW194_5-9	Groundwater	05/29/2012 15:04
S52669.14	SB-A5.5-NW194_11.5-12.5	Soil	05/29/2012 15:48



Analytical Laboratory Report

Lab Sample ID: S52669.01
Sample Tag: SB-A5.5-NL193_1-2
Collected Date/Time: 05/29/2012 09:30
Matrix: Soil
COC Reference: 69063

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/01/12 19:28	EMR		
Extraction, PCB	Completed			3550B	05/31/12 16:02	ADB		
Mercury Digestion	Completed			7471A	06/05/12 10:30	JRH		
Metal Digestion	Completed			3050B	06/05/12 10:00	PER		

Inorganics

Total Solids	97	%	1	Std M 2540 B	05/30/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/05/12 17:23	PER	7440-36-0	
Arsenic	1.34	mg/kg	0.10	6020	06/05/12 17:23	PER	7440-38-2	
Barium	9.86	mg/kg	1.0	6020	06/05/12 17:23	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/05/12 17:23	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/05/12 17:23	PER	7440-42-8	
Cadmium	0.17	mg/kg	0.10	6020	06/05/12 17:23	PER	7440-43-9	
Chromium	1.49	mg/kg	0.20	6020	06/05/12 17:23	PER	7440-47-3	
Cobalt	6.10	mg/kg	0.20	6020	06/05/12 17:23	PER	7440-48-4	
Copper	2.61	mg/kg	0.20	6020	06/05/12 17:23	PER	7440-50-8	
Lead	5.11	mg/kg	0.20	6020	06/05/12 17:23	PER	7439-92-1	
Manganese	134	mg/kg	0.20	6020	06/05/12 17:23	PER	7439-96-5	
Mercury	0.0072	mg/kg	0.0052	7471A	06/05/12 13:06	JRT	7439-97-6	
Nickel	3.91	mg/kg	0.20	6020	06/05/12 17:23	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/05/12 17:23	PER	7782-49-2	
Silver	0.76	mg/kg	0.10	6020	06/05/12 17:23	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/05/12 17:23	PER	7440-28-0	
Vanadium	2.37	mg/kg	0.20	6020	06/05/12 17:23	PER	7440-62-2	
Zinc	9.11	mg/kg	1.0	6020	06/05/12 17:23	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	06/01/12 13:46	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/01/12 13:46	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/01/12 13:46	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/01/12 13:46	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/01/12 13:46	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	06/01/12 13:46	JANB	11097-69-1	
PCB-1260	5	ug/kg	3	8082A	06/01/12 13:46	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	208-96-8	
Acetophenone	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52669.01 (continued)

Sample Tag: SB-A5.5-NL193_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	120-12-7	
Atrazine	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 02:35	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	100-52-7	
Benzo(a)anthracene	50	ug/kg	30	8270C	06/07/12 02:35	PL	56-55-3	
Benzo(a)pyrene	50	ug/kg	30	8270C	06/07/12 02:35	PL	50-32-8	
Benzo(b)fluoranthene	90	ug/kg	30	8270C	06/07/12 02:35	PL	205-99-2	p
Benzo(ghi)perylene	40	ug/kg	30	8270C	06/07/12 02:35	PL	191-24-2	
Benzo(k)fluoranthene	100	ug/kg	30	8270C	06/07/12 02:35	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	105-60-2	
Carbazole	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	108-60-1	
Chrysene	50	ug/kg	30	8270C	06/07/12 02:35	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/07/12 02:35	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 02:35	PL	84-66-2	
Dimethyl phthalate	130	ug/kg	30	8270C	06/07/12 02:35	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/07/12 02:35	PL	117-81-7	
Fluoranthene	100	ug/kg	30	8270C	06/07/12 02:35	PL	206-44-0	
Fluorene	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	193-39-5	
Isophorone	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/07/12 02:35	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	88-74-4	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52669.01 (continued)

Sample Tag: SB-A5.5-NL193_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	86-30-6	
Naphthalene	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 02:35	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	87-86-5	
Phenanthrene	60	ug/kg	30	8270C	06/07/12 02:35	PL	85-01-8	
Phenol	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	108-95-2	
Pyrene	90	ug/kg	30	8270C	06/07/12 02:35	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	30	8270C	06/07/12 02:35	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52669.02
Sample Tag: SB-A5.5-NL193_8-9
Collected Date/Time: 05/29/2012 09:55
Matrix: Soil
COC Reference: 69063

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

BNA Extraction	Completed			3550B	06/01/12 19:28	EMR		
Extraction, PCB	Completed			3550B	05/31/12 16:02	ADB		
Mercury Digestion	Completed			7471A	06/05/12 10:30	JRH		
Metal Digestion	Completed			3050B	06/05/12 10:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/30/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/05/12 17:25	PER	7440-36-0	
Arsenic	1.01	mg/kg	0.10	6020	06/05/12 17:25	PER	7440-38-2	
Barium	24.9	mg/kg	1.0	6020	06/05/12 17:25	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/05/12 17:25	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	06/05/12 17:25	PER	7440-42-8	
Cadmium	0.10	mg/kg	0.10	6020	06/05/12 17:25	PER	7440-43-9	
Chromium	3.22	mg/kg	0.21	6020	06/05/12 17:25	PER	7440-47-3	
Cobalt	2.67	mg/kg	0.21	6020	06/05/12 17:25	PER	7440-48-4	
Copper	9.93	mg/kg	0.21	6020	06/05/12 17:25	PER	7440-50-8	
Lead	4.49	mg/kg	0.21	6020	06/05/12 17:25	PER	7439-92-1	
Manganese	228	mg/kg	0.21	6020	06/05/12 17:25	PER	7439-96-5	
Mercury	0.0089	mg/kg	0.0058	7471A	06/05/12 13:22	JRT	7439-97-6	
Nickel	7.69	mg/kg	0.21	6020	06/05/12 17:25	PER	7440-02-0	
Selenium	0.41	mg/kg	0.21	6020	06/05/12 17:25	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/05/12 17:25	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/05/12 17:25	PER	7440-28-0	
Vanadium	6.87	mg/kg	0.21	6020	06/05/12 17:25	PER	7440-62-2	
Zinc	12.8	mg/kg	1.0	6020	06/05/12 17:25	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	06/01/12 13:14	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/01/12 13:14	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/01/12 13:14	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/01/12 13:14	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/01/12 13:14	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	06/01/12 13:14	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	06/01/12 13:14	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52669.02 (continued)

Sample Tag: SB-A5.5-NL193_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/06/12 15:35	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/06/12 15:35	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/06/12 15:35	PL	84-66-2	
Dimethyl phthalate	70	ug/kg	40	8270C	06/06/12 15:35	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/06/12 15:35	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/06/12 15:35	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52669.02 (continued)

Sample Tag: SB-A5.5-NL193_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/06/12 15:35	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/06/12 15:35	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52669.03
Sample Tag: SB-A5.5-NL193_8-9 MS
Collected Date/Time: 05/29/2012 09:55
Matrix: Soil
COC Reference: 69063

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/01/12 19:28	EMR		
Extraction, PCB	Completed			3550B	05/31/12 16:02	ADB		
Mercury Digestion	Completed			7471A	06/05/12 10:30	JRH		
Metal Digestion	Completed			3050B	06/05/12 10:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/30/12 15:00	WAR		
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Metals

Antimony	23.4	mg/kg	0.21	6020	06/05/12 17:31	PER	7440-36-0	
Arsenic	23.1	mg/kg	0.10	6020	06/05/12 17:31	PER	7440-38-2	
Barium	47.3	mg/kg	1.0	6020	06/05/12 17:31	PER	7440-39-3	
Beryllium	22.1	mg/kg	0.21	6020	06/05/12 17:31	PER	7440-41-7	
Boron	24.4	mg/kg	4.3	6020	06/05/12 17:31	PER	7440-42-8	
Cadmium	23.7	mg/kg	0.10	6020	06/05/12 17:31	PER	7440-43-9	
Chromium	24.7	mg/kg	0.21	6020	06/05/12 17:31	PER	7440-47-3	
Cobalt	24.1	mg/kg	0.21	6020	06/05/12 17:31	PER	7440-48-4	
Copper	30.3	mg/kg	0.21	6020	06/05/12 17:31	PER	7440-50-8	
Lead	25.7	mg/kg	0.21	6020	06/05/12 17:31	PER	7439-92-1	
Manganese	252	mg/kg	0.21	6020	06/05/12 17:31	PER	7439-96-5	
Mercury	0.1296	mg/kg	0.0057	7471A	06/05/12 13:24	JRT	7439-97-6	
Nickel	28.9	mg/kg	0.21	6020	06/05/12 17:31	PER	7440-02-0	
Selenium	21.9	mg/kg	0.21	6020	06/05/12 17:31	PER	7782-49-2	
Silver	21.2	mg/kg	0.10	6020	06/05/12 17:31	PER	7440-22-4	
Thallium	19.7	mg/kg	0.21	6020	06/05/12 17:31	PER	7440-28-0	
Vanadium	30.1	mg/kg	0.21	6020	06/05/12 17:31	PER	7440-62-2	
Zinc	35.1	mg/kg	1.0	6020	06/05/12 17:31	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	20	ug/kg	3	8082A	06/01/12 13:25	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/01/12 13:25	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/01/12 13:25	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/01/12 13:25	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/01/12 13:25	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	06/01/12 13:25	JANB	11097-69-1	
PCB-1260	20	ug/kg	3	8082A	06/01/12 13:25	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	1,710	ug/kg	40	8270C	06/06/12 16:10	PL	83-32-9	1
Acenaphthylene	1,640	ug/kg	40	8270C	06/06/12 16:10	PL	208-96-8	1

1-Sample spiked at 1.87 mg/kg



Analytical Laboratory Report

Lab Sample ID: S52669.03 (continued)

Sample Tag: SB-A5.5-NL193_8-9 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	1,690	ug/kg	40	8270C	06/06/12 16:10	PL	98-86-2	1
Anthracene	1,650	ug/kg	40	8270C	06/06/12 16:10	PL	120-12-7	1
Atrazine	1,850	ug/kg	40	8270C	06/06/12 16:10	PL	1912-24-9	1
1,1'-Biphenyl	1,650	ug/kg	40	8270C	06/06/12 16:10	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,610	ug/kg	40	8270C	06/06/12 16:10	PL	101-55-3	1
di-n-Butyl phthalate	1,690	ug/kg	70	8270C	06/06/12 16:10	PL	84-74-2	1
Benzaldehyde	1,170	ug/kg	40	8270C	06/06/12 16:10	PL	100-52-7	1
Benzo(a)anthracene	1,690	ug/kg	40	8270C	06/06/12 16:10	PL	56-55-3	1
Benzo(a)pyrene	1,640	ug/kg	40	8270C	06/06/12 16:10	PL	50-32-8	1
Benzo(b)fluoranthene	1,730	ug/kg	40	8270C	06/06/12 16:10	PL	205-99-2	1
Benzo(ghi)perylene	1,700	ug/kg	40	8270C	06/06/12 16:10	PL	191-24-2	1
Benzo(k)fluoranthene	1,810	ug/kg	40	8270C	06/06/12 16:10	PL	207-08-9	1
Butyl benzyl phthalate	1,730	ug/kg	40	8270C	06/06/12 16:10	PL	85-68-7	1
2-Chloronaphthalene	1,620	ug/kg	40	8270C	06/06/12 16:10	PL	91-58-7	1
2-Chlorophenol	1,610	ug/kg	40	8270C	06/06/12 16:10	PL	95-57-8	1
4-Chloro-3-methylphenol	1,760	ug/kg	40	8270C	06/06/12 16:10	PL	59-50-7	1
4-Chloroaniline	1,600	ug/kg	40	8270C	06/06/12 16:10	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,730	ug/kg	40	8270C	06/06/12 16:10	PL	7005-72-3	1
Caprolactam	1,870	ug/kg	40	8270C	06/06/12 16:10	PL	105-60-2	1
Carbazole	1,710	ug/kg	40	8270C	06/06/12 16:10	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,570	ug/kg	40	8270C	06/06/12 16:10	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,620	ug/kg	40	8270C	06/06/12 16:10	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,670	ug/kg	40	8270C	06/06/12 16:10	PL	108-60-1	1
Chrysene	1,740	ug/kg	40	8270C	06/06/12 16:10	PL	218-01-9	1
2,4-Dichlorophenol	1,600	ug/kg	40	8270C	06/06/12 16:10	PL	120-83-2	1
2,4-Dimethylphenol	1,560	ug/kg	40	8270C	06/06/12 16:10	PL	105-67-9	1
2,4-Dinitrophenol	830	ug/kg	40	8270C	06/06/12 16:10	PL	51-28-5	1
2,4-Dinitrotoluene	1,940	ug/kg	40	8270C	06/06/12 16:10	PL	121-14-2	1
2,6-Dinitrotoluene	1,820	ug/kg	40	8270C	06/06/12 16:10	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,750	ug/kg	40	8270C	06/06/12 16:10	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,430	ug/kg	40	8270C	06/06/12 16:10	PL	534-52-1	1
Dibenzo(ah)anthracene	1,660	ug/kg	70	8270C	06/06/12 16:10	PL	53-70-3	1
Dibenzofuran	1,720	ug/kg	40	8270C	06/06/12 16:10	PL	132-64-9	1
Diethyl phthalate	1,760	ug/kg	70	8270C	06/06/12 16:10	PL	84-66-2	1
Dimethyl phthalate	1,880	ug/kg	40	8270C	06/06/12 16:10	PL	131-11-3	1B
bis(2-Ethylhexyl)phthalate	1,610	ug/kg	70	8270C	06/06/12 16:10	PL	117-81-7	1
Fluoranthene	1,650	ug/kg	40	8270C	06/06/12 16:10	PL	206-44-0	1
Fluorene	1,710	ug/kg	40	8270C	06/06/12 16:10	PL	86-73-7	1
Hexachlorobenzene	1,570	ug/kg	40	8270C	06/06/12 16:10	PL	118-74-1	1
Hexachlorobutadiene	1,460	ug/kg	40	8270C	06/06/12 16:10	PL	87-68-3	1
Hexachlorocyclopentadiene	1,030	ug/kg	40	8270C	06/06/12 16:10	PL	77-47-4	1
Hexachloroethane	1,480	ug/kg	40	8270C	06/06/12 16:10	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,620	ug/kg	40	8270C	06/06/12 16:10	PL	193-39-5	1
Isophorone	1,590	ug/kg	40	8270C	06/06/12 16:10	PL	78-59-1	1
2-Methylnaphthalene	1,480	ug/kg	40	8270C	06/06/12 16:10	PL	91-57-6	1
2-Methylphenol	1,720	ug/kg	40	8270C	06/06/12 16:10	PL	95-48-7	1
3-, 4-Methylphenol	3,510	ug/kg	70	8270C	06/06/12 16:10	PL	3/4-Cresol	1

1-Sample spiked at 1.87 mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52669.03 (continued)

Sample Tag: SB-A5.5-NL193_8-9 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	1,850	ug/kg	40	8270C	06/06/12 16:10	PL	88-74-4	1
2-Nitrophenol	1,600	ug/kg	40	8270C	06/06/12 16:10	PL	88-75-5	1
3-Nitroaniline	1,620	ug/kg	40	8270C	06/06/12 16:10	PL	99-09-2	1
4-Nitroaniline	1,980	ug/kg	40	8270C	06/06/12 16:10	PL	100-01-6	1
4-Nitrophenol	1,880	ug/kg	40	8270C	06/06/12 16:10	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,690	ug/kg	40	8270C	06/06/12 16:10	PL	621-64-7	1
N-Nitrosodiphenylamine	1,420	ug/kg	40	8270C	06/06/12 16:10	PL	86-30-6	1
Naphthalene	1,510	ug/kg	40	8270C	06/06/12 16:10	PL	91-20-3	1
Nitrobenzene	1,580	ug/kg	40	8270C	06/06/12 16:10	PL	98-95-3	1
di-n-Octyl phthalate	1,960	ug/kg	70	8270C	06/06/12 16:10	PL	117-84-0	1
Pentachlorophenol	1,330	ug/kg	40	8270C	06/06/12 16:10	PL	87-86-5	1
Phenanthrene	1,650	ug/kg	40	8270C	06/06/12 16:10	PL	85-01-8	1
Phenol	1,700	ug/kg	40	8270C	06/06/12 16:10	PL	108-95-2	1
Pyrene	1,670	ug/kg	40	8270C	06/06/12 16:10	PL	129-00-0	1
2,4,5-Trichlorophenol	1,780	ug/kg	40	8270C	06/06/12 16:10	PL	95-95-4	1
2,4,6-Trichlorophenol	1,730	ug/kg	40	8270C	06/06/12 16:10	PL	88-06-2	1

1-Sample spiked at 1.87 mg/kg



Analytical Laboratory Report

Lab Sample ID: S52669.04
Sample Tag: SB-A5.5-NL193_8-9 MSD
Collected Date/Time: 05/29/2012 09:55
Matrix: Soil
COC Reference: 69063

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/01/12 19:28	EMR		
Extraction, PCB	Completed			3550B	05/31/12 16:02	ADB		
Mercury Digestion	Completed			7471A	06/05/12 10:30	JRH		
Metal Digestion	Completed			3050B	06/05/12 10:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/30/12 15:00	WAR		
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Metals

Antimony	23.4	mg/kg	0.21	6020	06/05/12 17:37	PER	7440-36-0	
Arsenic	22.7	mg/kg	0.10	6020	06/05/12 17:37	PER	7440-38-2	
Barium	45.8	mg/kg	1.0	6020	06/05/12 17:37	PER	7440-39-3	
Beryllium	22.7	mg/kg	0.21	6020	06/05/12 17:37	PER	7440-41-7	
Boron	24.0	mg/kg	4.3	6020	06/05/12 17:37	PER	7440-42-8	
Cadmium	23.7	mg/kg	0.10	6020	06/05/12 17:37	PER	7440-43-9	
Chromium	24.3	mg/kg	0.21	6020	06/05/12 17:37	PER	7440-47-3	
Cobalt	23.6	mg/kg	0.21	6020	06/05/12 17:37	PER	7440-48-4	
Copper	29.7	mg/kg	0.21	6020	06/05/12 17:37	PER	7440-50-8	
Lead	26.2	mg/kg	0.21	6020	06/05/12 17:37	PER	7439-92-1	
Manganese	249	mg/kg	0.21	6020	06/05/12 17:37	PER	7439-96-5	
Mercury	0.1341	mg/kg	0.0057	7471A	06/05/12 13:26	JRT	7439-97-6	
Nickel	28.2	mg/kg	0.21	6020	06/05/12 17:37	PER	7440-02-0	
Selenium	22.0	mg/kg	0.21	6020	06/05/12 17:37	PER	7782-49-2	
Silver	21.0	mg/kg	0.10	6020	06/05/12 17:37	PER	7440-22-4	
Thallium	20.0	mg/kg	0.21	6020	06/05/12 17:37	PER	7440-28-0	
Vanadium	29.7	mg/kg	0.21	6020	06/05/12 17:37	PER	7440-62-2	
Zinc	33.6	mg/kg	1.0	6020	06/05/12 17:37	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	20	ug/kg	3	8082A	06/01/12 13:35	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/01/12 13:35	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/01/12 13:35	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/01/12 13:35	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/01/12 13:35	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	06/01/12 13:35	JANB	11097-69-1	
PCB-1260	20	ug/kg	3	8082A	06/01/12 13:35	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	1,810	ug/kg	40	8270C	06/06/12 16:44	PL	83-32-9	1
Acenaphthylene	1,720	ug/kg	40	8270C	06/06/12 16:44	PL	208-96-8	1

1-Sample spiked at 1.87 mg/kg



Analytical Laboratory Report

Lab Sample ID: S52669.04 (continued)

Sample Tag: SB-A5.5-NL193_8-9 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	1,590	ug/kg	40	8270C	06/06/12 16:44	PL	98-86-2	1
Anthracene	1,770	ug/kg	40	8270C	06/06/12 16:44	PL	120-12-7	1
Atrazine	2,010	ug/kg	40	8270C	06/06/12 16:44	PL	1912-24-9	1
1,1'-Biphenyl	1,740	ug/kg	40	8270C	06/06/12 16:44	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,720	ug/kg	40	8270C	06/06/12 16:44	PL	101-55-3	1
di-n-Butyl phthalate	1,810	ug/kg	70	8270C	06/06/12 16:44	PL	84-74-2	1
Benzaldehyde	1,000	ug/kg	40	8270C	06/06/12 16:44	PL	100-52-7	1
Benzo(a)anthracene	1,860	ug/kg	40	8270C	06/06/12 16:44	PL	56-55-3	1
Benzo(a)pyrene	1,750	ug/kg	40	8270C	06/06/12 16:44	PL	50-32-8	1
Benzo(b)fluoranthene	1,880	ug/kg	40	8270C	06/06/12 16:44	PL	205-99-2	1
Benzo(ghi)perylene	1,890	ug/kg	40	8270C	06/06/12 16:44	PL	191-24-2	1
Benzo(k)fluoranthene	1,990	ug/kg	40	8270C	06/06/12 16:44	PL	207-08-9	1
Butyl benzyl phthalate	1,890	ug/kg	40	8270C	06/06/12 16:44	PL	85-68-7	1
2-Chloronaphthalene	1,700	ug/kg	40	8270C	06/06/12 16:44	PL	91-58-7	1
2-Chlorophenol	1,460	ug/kg	40	8270C	06/06/12 16:44	PL	95-57-8	1
4-Chloro-3-methylphenol	1,850	ug/kg	40	8270C	06/06/12 16:44	PL	59-50-7	1
4-Chloroaniline	1,570	ug/kg	40	8270C	06/06/12 16:44	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,860	ug/kg	40	8270C	06/06/12 16:44	PL	7005-72-3	1
Caprolactam	2,020	ug/kg	40	8270C	06/06/12 16:44	PL	105-60-2	1
Carbazole	1,780	ug/kg	40	8270C	06/06/12 16:44	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,550	ug/kg	40	8270C	06/06/12 16:44	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,420	ug/kg	40	8270C	06/06/12 16:44	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,490	ug/kg	40	8270C	06/06/12 16:44	PL	108-60-1	1
Chrysene	1,880	ug/kg	40	8270C	06/06/12 16:44	PL	218-01-9	1
2,4-Dichlorophenol	1,640	ug/kg	40	8270C	06/06/12 16:44	PL	120-83-2	1
2,4-Dimethylphenol	1,610	ug/kg	40	8270C	06/06/12 16:44	PL	105-67-9	1
2,4-Dinitrophenol	1,000	ug/kg	40	8270C	06/06/12 16:44	PL	51-28-5	1
2,4-Dinitrotoluene	2,020	ug/kg	40	8270C	06/06/12 16:44	PL	121-14-2	1
2,6-Dinitrotoluene	1,950	ug/kg	40	8270C	06/06/12 16:44	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,820	ug/kg	40	8270C	06/06/12 16:44	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,580	ug/kg	40	8270C	06/06/12 16:44	PL	534-52-1	1
Dibenzo(ah)anthracene	1,880	ug/kg	70	8270C	06/06/12 16:44	PL	53-70-3	1
Dibenzofuran	1,850	ug/kg	40	8270C	06/06/12 16:44	PL	132-64-9	1
Diethyl phthalate	1,890	ug/kg	70	8270C	06/06/12 16:44	PL	84-66-2	1
Dimethyl phthalate	2,000	ug/kg	40	8270C	06/06/12 16:44	PL	131-11-3	1B
bis(2-Ethylhexyl)phthalate	1,770	ug/kg	70	8270C	06/06/12 16:44	PL	117-81-7	1
Fluoranthene	1,750	ug/kg	40	8270C	06/06/12 16:44	PL	206-44-0	1
Fluorene	1,820	ug/kg	40	8270C	06/06/12 16:44	PL	86-73-7	1
Hexachlorobenzene	1,700	ug/kg	40	8270C	06/06/12 16:44	PL	118-74-1	1
Hexachlorobutadiene	1,350	ug/kg	40	8270C	06/06/12 16:44	PL	87-68-3	1
Hexachlorocyclopentadiene	980	ug/kg	40	8270C	06/06/12 16:44	PL	77-47-4	1
Hexachloroethane	1,240	ug/kg	40	8270C	06/06/12 16:44	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,810	ug/kg	40	8270C	06/06/12 16:44	PL	193-39-5	1
Isophorone	1,600	ug/kg	40	8270C	06/06/12 16:44	PL	78-59-1	1
2-Methylnaphthalene	1,470	ug/kg	40	8270C	06/06/12 16:44	PL	91-57-6	1
2-Methylphenol	1,660	ug/kg	40	8270C	06/06/12 16:44	PL	95-48-7	1
3-, 4-Methylphenol	3,580	ug/kg	70	8270C	06/06/12 16:44	PL	3/4-Cresol	1

1-Sample spiked at 1.87 mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52669.04 (continued)

Sample Tag: SB-A5.5-NL193_8-9 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	1,970	ug/kg	40	8270C	06/06/12 16:44	PL	88-74-4	1
2-Nitrophenol	1,520	ug/kg	40	8270C	06/06/12 16:44	PL	88-75-5	1
3-Nitroaniline	1,730	ug/kg	40	8270C	06/06/12 16:44	PL	99-09-2	1
4-Nitroaniline	2,120	ug/kg	40	8270C	06/06/12 16:44	PL	100-01-6	1
4-Nitrophenol	1,920	ug/kg	40	8270C	06/06/12 16:44	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,710	ug/kg	40	8270C	06/06/12 16:44	PL	621-64-7	1
N-Nitrosodiphenylamine	1,490	ug/kg	40	8270C	06/06/12 16:44	PL	86-30-6	1
Naphthalene	1,410	ug/kg	40	8270C	06/06/12 16:44	PL	91-20-3	1
Nitrobenzene	1,470	ug/kg	40	8270C	06/06/12 16:44	PL	98-95-3	1
di-n-Octyl phthalate	2,100	ug/kg	70	8270C	06/06/12 16:44	PL	117-84-0	1
Pentachlorophenol	1,500	ug/kg	40	8270C	06/06/12 16:44	PL	87-86-5	1
Phenanthrene	1,750	ug/kg	40	8270C	06/06/12 16:44	PL	85-01-8	1
Phenol	1,620	ug/kg	40	8270C	06/06/12 16:44	PL	108-95-2	1
Pyrene	1,830	ug/kg	40	8270C	06/06/12 16:44	PL	129-00-0	1
2,4,5-Trichlorophenol	1,900	ug/kg	40	8270C	06/06/12 16:44	PL	95-95-4	1
2,4,6-Trichlorophenol	1,880	ug/kg	40	8270C	06/06/12 16:44	PL	88-06-2	1

1-Sample spiked at 1.87 mg/kg



Analytical Laboratory Report

Lab Sample ID: S52669.05
Sample Tag: SB-A5.5-NL193_4.5-8.5
Collected Date/Time: 05/29/2012 10:15
Matrix: Groundwater
COC Reference: 69063

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.2	IR
2	40ml Glass	HCL	Yes	4.2	IR
1	125ml Plastic	HNO3	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	06/05/12 20:19	EMR		
Mercury Digestion	Completed			7471A	06/05/12 15:55	JRH		
Metal Digestion	Completed			3015A	06/07/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:06	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:06	SLS	7440-38-2	
Barium, Dissolved	0.056	mg/L	0.010	6020	06/07/12 22:06	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 22:06	SLS	7440-41-7	
Boron, Dissolved	0.11	mg/L	0.04	6020	06/07/12 22:06	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 22:06	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 22:06	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 22:06	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:06	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:06	SLS	7439-92-1	
Manganese, Dissolved	0.018	mg/L	0.010	6020	06/07/12 22:06	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	06/06/12 13:03	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 22:06	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:06	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	06/07/12 22:06	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:06	SLS	7440-28-0	
Vanadium, Dissolved	0.002	mg/L	0.002	6020	06/07/12 22:06	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 22:06	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/08/12 00:53	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/08/12 00:53	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	205-99-2	



Analytical Laboratory Report

Lab Sample ID: S52669.05 (continued)

Sample Tag: SB-A5.5-NL193_4.5-8.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	06/07/12 13:10	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	06/07/12 13:10	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	06/07/12 13:10	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	06/07/12 13:10	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	129-00-0	



Analytical Laboratory Report

Lab Sample ID: S52669.05 (continued)

Sample Tag: SB-A5.5-NL193_4.5-8.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	06/07/12 13:10	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	06/12/12 02:32	WAT	123-91-1	



Analytical Laboratory Report

Lab Sample ID: S52669.06
Sample Tag: SB-A5.5-DUP60
Collected Date/Time: 05/29/2012 00:01
Matrix: Groundwater
COC Reference: 69063

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.2	IR
2	40ml Glass	HCL	Yes	4.2	IR
1	125ml Plastic	HNO3	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	06/05/12 20:19	EMR		
Mercury Digestion	Completed			7471A	06/05/12 15:55	JRH		
Metal Digestion	Completed			3015A	06/07/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:10	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:10	SLS	7440-38-2	
Barium, Dissolved	0.053	mg/L	0.010	6020	06/07/12 22:10	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 22:10	SLS	7440-41-7	
Boron, Dissolved	0.11	mg/L	0.04	6020	06/07/12 22:10	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 22:10	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 22:10	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 22:10	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:10	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:10	SLS	7439-92-1	
Manganese, Dissolved	0.104	mg/L	0.010	6020	06/07/12 22:10	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	06/06/12 13:06	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 22:10	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:10	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	06/07/12 22:10	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:10	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:10	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 22:10	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.06	8270C	06/08/12 01:22	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.06	8270C	06/08/12 01:22	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	205-99-2	



Analytical Laboratory Report

Lab Sample ID: S52669.06 (continued)

Sample Tag: SB-A5.5-DUP60

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	06/07/12 13:45	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	06/07/12 13:45	PL	84-66-2	
Dimethyl phthalate	3	ug/L	2	8270C	06/07/12 13:45	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	06/07/12 13:45	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	129-00-0	



Analytical Laboratory Report

Lab Sample ID: S52669.06 (continued)

Sample Tag: SB-A5.5-DUP60

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	06/07/12 13:45	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52669.07
Sample Tag: Trip Blank
Collected Date/Time: 05/29/2012 00:01
Matrix: Groundwater
COC Reference: 69063

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	06/05/12 22:57	JGH	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	06/07/12 20:48	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	06/07/12 20:48	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	06/07/12 20:48	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	06/07/12 20:48	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	06/07/12 20:48	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/07/12 20:48	WAT		



Analytical Laboratory Report

Lab Sample ID: S52669.07 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	06/07/12 20:48	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S52669.08
Sample Tag: SB-A5.5-NL193_14.5-15
Collected Date/Time: 05/29/2012 11:10
Matrix: Soil
COC Reference: 69063

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/01/12 19:28	EMR		
Extraction, PCB	Completed			3550B	06/04/12 11:34	ADB		
Mercury Digestion	Completed			7471A	06/05/12 10:30	JRH		
Metal Digestion	Completed			3050B	06/05/12 10:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/30/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/05/12 17:40	PER	7440-36-0	
Arsenic	0.88	mg/kg	0.10	6020	06/05/12 17:40	PER	7440-38-2	
Barium	21.0	mg/kg	1.0	6020	06/05/12 17:40	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/05/12 17:40	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/05/12 17:40	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/05/12 17:40	PER	7440-43-9	
Chromium	2.49	mg/kg	0.20	6020	06/05/12 17:40	PER	7440-47-3	
Cobalt	1.92	mg/kg	0.20	6020	06/05/12 17:40	PER	7440-48-4	
Copper	6.86	mg/kg	0.20	6020	06/05/12 17:40	PER	7440-50-8	
Lead	3.35	mg/kg	0.20	6020	06/05/12 17:40	PER	7439-92-1	
Manganese	172	mg/kg	0.20	6020	06/05/12 17:40	PER	7439-96-5	
Mercury	0.0065	mg/kg	0.0056	7471A	06/05/12 13:08	JRT	7439-97-6	
Nickel	6.00	mg/kg	0.20	6020	06/05/12 17:40	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/05/12 17:40	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/05/12 17:40	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/05/12 17:40	PER	7440-28-0	
Vanadium	4.94	mg/kg	0.20	6020	06/05/12 17:40	PER	7440-62-2	
Zinc	8.17	mg/kg	1.0	6020	06/05/12 17:40	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	06/04/12 15:44	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/04/12 15:44	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/04/12 15:44	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/04/12 15:44	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/04/12 15:44	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	06/04/12 15:44	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	06/04/12 15:44	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52669.08 (continued)

Sample Tag: SB-A5.5-NL193_14.5-15

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 03:09	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/07/12 03:09	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 03:09	PL	84-66-2	
Dimethyl phthalate	90	ug/kg	40	8270C	06/07/12 03:09	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/07/12 03:09	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/07/12 03:09	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52669.08 (continued)

Sample Tag: SB-A5.5-NL193_14.5-15

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 03:09	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 03:09	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52669.09
Sample Tag: SB-A5.5-NL193_16-17
Collected Date/Time: 05/29/2012 11:15
Matrix: Soil
COC Reference: 69063

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/01/12 19:28	EMR		
Extraction, PCB	Completed			3550B	06/04/12 11:34	ADB		
Mercury Digestion	Completed			7471A	06/05/12 10:30	JRH		
Metal Digestion	Completed			3050B	06/05/12 10:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/30/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/05/12 17:42	PER	7440-36-0	
Arsenic	0.81	mg/kg	0.10	6020	06/05/12 17:42	PER	7440-38-2	
Barium	31.8	mg/kg	1.0	6020	06/05/12 17:42	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/05/12 17:42	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/05/12 17:42	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	06/05/12 17:42	PER	7440-43-9	
Chromium	3.04	mg/kg	0.20	6020	06/05/12 17:42	PER	7440-47-3	
Cobalt	2.35	mg/kg	0.20	6020	06/05/12 17:42	PER	7440-48-4	
Copper	7.08	mg/kg	0.20	6020	06/05/12 17:42	PER	7440-50-8	
Lead	3.97	mg/kg	0.20	6020	06/05/12 17:42	PER	7439-92-1	
Manganese	209	mg/kg	0.20	6020	06/05/12 17:42	PER	7439-96-5	
Mercury	0.0139	mg/kg	0.0054	7471A	06/05/12 13:10	JRT	7439-97-6	
Nickel	6.78	mg/kg	0.20	6020	06/05/12 17:42	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/05/12 17:42	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/05/12 17:42	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/05/12 17:42	PER	7440-28-0	
Vanadium	5.25	mg/kg	0.20	6020	06/05/12 17:42	PER	7440-62-2	
Zinc	10.1	mg/kg	1.0	6020	06/05/12 17:42	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	06/04/12 15:54	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/04/12 15:54	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/04/12 15:54	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/04/12 15:54	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/04/12 15:54	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	06/04/12 15:54	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	06/04/12 15:54	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52669.09 (continued)

Sample Tag: SB-A5.5-NL193_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 03:43	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/07/12 03:43	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 03:43	PL	84-66-2	
Dimethyl phthalate	60	ug/kg	40	8270C	06/07/12 03:43	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/07/12 03:43	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/07/12 03:43	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52669.09 (continued)

Sample Tag: SB-A5.5-NL193_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 03:43	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 03:43	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52669.10
Sample Tag: SB-A5.5-NO196B_16-17
Collected Date/Time: 05/29/2012 13:47
Matrix: Soil
COC Reference: 69062

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/01/12 19:28	EMR		
Extraction, PCB	Completed			3550B	06/04/12 11:34	ADB		
Mercury Digestion	Completed			7471A	06/05/12 10:30	JRH		
Metal Digestion	Completed			3050B	06/05/12 10:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/30/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/05/12 17:44	PER	7440-36-0	
Arsenic	0.66	mg/kg	0.10	6020	06/05/12 17:44	PER	7440-38-2	
Barium	30.8	mg/kg	1.0	6020	06/05/12 17:44	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/05/12 17:44	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/05/12 17:44	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/05/12 17:44	PER	7440-43-9	
Chromium	3.03	mg/kg	0.20	6020	06/05/12 17:44	PER	7440-47-3	
Cobalt	2.61	mg/kg	0.20	6020	06/05/12 17:44	PER	7440-48-4	
Copper	8.29	mg/kg	0.20	6020	06/05/12 17:44	PER	7440-50-8	
Lead	4.19	mg/kg	0.20	6020	06/05/12 17:44	PER	7439-92-1	
Manganese	220	mg/kg	0.20	6020	06/05/12 17:44	PER	7439-96-5	
Mercury	0.0077	mg/kg	0.0055	7471A	06/05/12 13:13	JRT	7439-97-6	
Nickel	6.88	mg/kg	0.20	6020	06/05/12 17:44	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/05/12 17:44	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/05/12 17:44	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/05/12 17:44	PER	7440-28-0	
Vanadium	6.03	mg/kg	0.20	6020	06/05/12 17:44	PER	7440-62-2	
Zinc	10.2	mg/kg	1.0	6020	06/05/12 17:44	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	06/04/12 16:04	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/04/12 16:04	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/04/12 16:04	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/04/12 16:04	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/04/12 16:04	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	06/04/12 16:04	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	06/04/12 16:04	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52669.10 (continued)

Sample Tag: SB-A5.5-NO196B_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 04:18	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/07/12 04:18	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 04:18	PL	84-66-2	
Dimethyl phthalate	90	ug/kg	40	8270C	06/07/12 04:18	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/07/12 04:18	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/07/12 04:18	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	88-75-5	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52669.10 (continued)

Sample Tag: SB-A5.5-NO196B_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 04:18	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 04:18	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52669.11
Sample Tag: SB-A5.5-NW194_0-1
Collected Date/Time: 05/29/2012 14:40
Matrix: Soil
COC Reference: 69062

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/01/12 19:28	EMR		
Extraction, PCB	Completed			3550B	06/04/12 11:34	ADB		
Mercury Digestion	Completed			7471A	06/05/12 10:30	JRH		
Metal Digestion	Completed			3050B	06/05/12 10:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	05/30/12 12:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/05/12 17:46	PER	7440-36-0	
Arsenic	0.93	mg/kg	0.10	6020	06/05/12 17:46	PER	7440-38-2	
Barium	26.5	mg/kg	1.0	6020	06/05/12 17:46	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/05/12 17:46	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/05/12 17:46	PER	7440-42-8	
Cadmium	0.12	mg/kg	0.10	6020	06/05/12 17:46	PER	7440-43-9	
Chromium	3.30	mg/kg	0.20	6020	06/05/12 17:46	PER	7440-47-3	
Cobalt	1.90	mg/kg	0.20	6020	06/05/12 17:46	PER	7440-48-4	
Copper	4.76	mg/kg	0.20	6020	06/05/12 17:46	PER	7440-50-8	
Lead	6.14	mg/kg	0.20	6020	06/05/12 17:46	PER	7439-92-1	
Manganese	264	mg/kg	0.20	6020	06/05/12 17:46	PER	7439-96-5	
Mercury	0.0122	mg/kg	0.0054	7471A	06/05/12 13:15	JRT	7439-97-6	
Nickel	5.32	mg/kg	0.20	6020	06/05/12 17:46	PER	7440-02-0	
Selenium	0.20	mg/kg	0.20	6020	06/05/12 17:46	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/05/12 17:46	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/05/12 17:46	PER	7440-28-0	
Vanadium	2.78	mg/kg	0.20	6020	06/05/12 17:46	PER	7440-62-2	
Zinc	18.7	mg/kg	1.0	6020	06/05/12 17:46	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	100	8082A	06/05/12 14:26	JANB	12674-11-2	Y
PCB-1242	800	ug/kg	100	8082A	06/05/12 14:26	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	100	8082A	06/05/12 14:26	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	100	8082A	06/05/12 14:26	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	100	8082A	06/05/12 14:26	JANB	12672-29-6	Y
PCB-1254	Not detected	ug/kg	100	8082A	06/05/12 14:26	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	100	8082A	06/05/12 14:26	JANB	11096-82-5	Y

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	208-96-8	

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S52669.11 (continued)

Sample Tag: SB-A5.5-NW194_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	98-86-2	
Anthracene	100	ug/kg	100	8270C	06/07/12 09:27	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	300	8270C	06/07/12 09:27	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	100-52-7	
Benzo(a)anthracene	900	ug/kg	100	8270C	06/07/12 09:27	PL	56-55-3	I
Benzo(a)pyrene	900	ug/kg	100	8270C	06/07/12 09:27	PL	50-32-8	I
Benzo(b)fluoranthene	2,100	ug/kg	100	8270C	06/07/12 09:27	PL	205-99-2	lp
Benzo(ghi)perylene	800	ug/kg	100	8270C	06/07/12 09:27	PL	191-24-2	I
Benzo(k)fluoranthene	2,200	ug/kg	100	8270C	06/07/12 09:27	PL	207-08-9	lp
Butyl benzyl phthalate	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	85-68-7	I
2-Chloronaphthalene	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	105-60-2	
Carbazole	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	108-60-1	
Chrysene	1,000	ug/kg	100	8270C	06/07/12 09:27	PL	218-01-9	I
2,4-Dichlorophenol	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	91-94-1	I
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	8270C	06/07/12 09:27	PL	53-70-3	I
Dibenzofuran	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	300	8270C	06/07/12 09:27	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	300	8270C	06/07/12 09:27	PL	117-81-7	I
Fluoranthene	1,300	ug/kg	100	8270C	06/07/12 09:27	PL	206-44-0	
Fluorene	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	600	ug/kg	100	8270C	06/07/12 09:27	PL	193-39-5	I
Isophorone	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	300	8270C	06/07/12 09:27	PL	3/4-Cresol	

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S52669.11 (continued)

Sample Tag: SB-A5.5-NW194_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	86-30-6	
Naphthalene	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	300	8270C	06/07/12 09:27	PL	117-84-0	I
Pentachlorophenol	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	87-86-5	
Phenanthrene	700	ug/kg	100	8270C	06/07/12 09:27	PL	85-01-8	
Phenol	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	108-95-2	
Pyrene	2,300	ug/kg	100	8270C	06/07/12 09:27	PL	129-00-0	I
2,4,5-Trichlorophenol	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	100	8270C	06/07/12 09:27	PL	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	208-96-8	
Acetophenone	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	98-86-2	
Anthracene	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	300	8270C	06/07/12 22:44	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	100-52-7	
Benzo(a)anthracene	900	ug/kg	100	8270C	06/07/12 22:44	PL	56-55-3	I
Benzo(a)pyrene	900	ug/kg	100	8270C	06/07/12 22:44	PL	50-32-8	I
Benzo(b)fluoranthene	2,400	ug/kg	100	8270C	06/07/12 22:44	PL	205-99-2	lp
Benzo(ghi)perylene	500	ug/kg	100	8270C	06/07/12 22:44	PL	191-24-2	I
Benzo(k)fluoranthene	2,500	ug/kg	100	8270C	06/07/12 22:44	PL	207-08-9	lp
Butyl benzyl phthalate	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	85-68-7	I
2-Chloronaphthalene	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	105-60-2	
Carbazole	100	ug/kg	100	8270C	06/07/12 22:44	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	108-60-1	
Chrysene	1,000	ug/kg	100	8270C	06/07/12 22:44	PL	218-01-9	I
2,4-Dichlorophenol	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	51-28-5	

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S52669.11 (continued)

Sample Tag: SB-A5.5-NW194_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
2,4-Dinitrotoluene	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	91-94-1	I
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	8270C	06/07/12 22:44	PL	53-70-3	I
Dibenzofuran	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	300	8270C	06/07/12 22:44	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	300	8270C	06/07/12 22:44	PL	117-81-7	
Fluoranthene	1,600	ug/kg	100	8270C	06/07/12 22:44	PL	206-44-0	
Fluorene	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	400	ug/kg	100	8270C	06/07/12 22:44	PL	193-39-5	I
Isophorone	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	300	8270C	06/07/12 22:44	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	86-30-6	
Naphthalene	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	300	8270C	06/07/12 22:44	PL	117-84-0	I
Pentachlorophenol	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	87-86-5	
Phenanthrene	800	ug/kg	100	8270C	06/07/12 22:44	PL	85-01-8	
Phenol	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	108-95-2	
Pyrene	2,800	ug/kg	100	8270C	06/07/12 22:44	PL	129-00-0	I
2,4,5-Trichlorophenol	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	100	8270C	06/07/12 22:44	PL	88-06-2	

I-Matrix interference with internal standard



Analytical Laboratory Report

Lab Sample ID: S52669.12
Sample Tag: SB-A5.5-NW194_7.5-8.5
Collected Date/Time: 05/29/2012 14:50
Matrix: Soil
COC Reference: 69062

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 10:03	CCM		
Extraction, PCB	Completed			3550B	06/04/12 11:34	ADB		
Mercury Digestion	Completed			7471A	06/05/12 10:30	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/30/12 12:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/06/12 13:41	PER	7440-36-0	
Arsenic	2.48	mg/kg	0.10	6020	06/06/12 13:41	PER	7440-38-2	
Barium	5.67	mg/kg	1.0	6020	06/06/12 13:41	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/06/12 13:41	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/06/12 13:41	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/06/12 13:41	PER	7440-43-9	
Chromium	2.49	mg/kg	0.20	6020	06/06/12 13:41	PER	7440-47-3	
Cobalt	1.42	mg/kg	0.20	6020	06/06/12 13:41	PER	7440-48-4	
Copper	4.27	mg/kg	0.20	6020	06/06/12 13:41	PER	7440-50-8	
Lead	3.55	mg/kg	0.20	6020	06/06/12 13:41	PER	7439-92-1	
Manganese	131	mg/kg	0.20	6020	06/06/12 13:41	PER	7439-96-5	
Mercury	0.0057	mg/kg	0.0055	7471A	06/05/12 13:17	JRT	7439-97-6	
Nickel	4.44	mg/kg	0.20	6020	06/06/12 13:41	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/06/12 13:41	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/06/12 13:41	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/06/12 13:41	PER	7440-28-0	
Vanadium	3.05	mg/kg	0.20	6020	06/06/12 13:41	PER	7440-62-2	
Zinc	10.7	mg/kg	1.0	6020	06/06/12 13:41	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	5	8082A	06/05/12 14:47	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	5	8082A	06/05/12 14:47	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	5	8082A	06/05/12 14:47	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	5	8082A	06/05/12 14:47	JANB	11141-16-5	
PCB-1248	6	ug/kg	5	8082A	06/05/12 14:47	JANB	12672-29-6	Q
PCB-1254	Not detected	ug/kg	5	8082A	06/05/12 14:47	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	5	8082A	06/05/12 14:47	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	208-96-8	

Q-Reported result represents most abundant aroclor



Analytical Laboratory Report

Lab Sample ID: S52669.12 (continued)

Sample Tag: SB-A5.5-NW194_7.5-8.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	98-86-2	
Anthracene	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	120-12-7	
Atrazine	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	600	8270C	06/07/12 04:43	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	105-60-2	
Carbazole	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	108-60-1	
Chrysene	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	600	8270C	06/07/12 04:43	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	600	8270C	06/07/12 04:43	PL	84-66-2	X
Dimethyl phthalate	500	ug/kg	300	8270C	06/07/12 04:43	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	600	8270C	06/07/12 04:43	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	206-44-0	
Fluorene	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	193-39-5	
Isophorone	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	600	8270C	06/07/12 04:43	PL	3/4-Cresol	

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52669.12 (continued)

Sample Tag: SB-A5.5-NW194_7.5-8.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	86-30-6	
Naphthalene	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	600	8270C	06/07/12 04:43	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	85-01-8	
Phenol	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	108-95-2	
Pyrene	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	300	8270C	06/07/12 04:43	PL	88-06-2	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52669.13
Sample Tag: SB-A5.5-NW194_5-9
Collected Date/Time: 05/29/2012 15:04
Matrix: Groundwater
COC Reference: 69062

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.2	IR
2	40ml Glass	HCL	Yes	4.2	IR
1	125ml Plastic	HNO3	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	06/05/12 20:19	EMR		
Mercury Digestion	Completed			7471A	06/05/12 15:55	JRH		
Metal Digestion	Completed			3015A	06/07/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:32	SLS	7440-36-0	
Arsenic, Dissolved	0.220	mg/L	0.002	6020	06/07/12 22:32	SLS	7440-38-2	
Barium, Dissolved	0.056	mg/L	0.010	6020	06/07/12 22:32	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 22:32	SLS	7440-41-7	
Boron, Dissolved	0.13	mg/L	0.04	6020	06/07/12 22:32	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 22:32	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 22:32	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 22:32	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:32	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:32	SLS	7439-92-1	
Manganese, Dissolved	1.26	mg/L	0.010	6020	06/07/12 22:32	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	06/06/12 13:08	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 22:32	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:32	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	06/07/12 22:32	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:32	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:32	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 22:32	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/08/12 01:51	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/08/12 01:51	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	205-99-2	



Analytical Laboratory Report

Lab Sample ID: S52669.13 (continued)

Sample Tag: SB-A5.5-NW194_5-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	06/07/12 14:19	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	06/07/12 14:19	PL	84-66-2	
Dimethyl phthalate	3	ug/L	2	8270C	06/07/12 14:19	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	06/07/12 14:19	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	129-00-0	



Analytical Laboratory Report

Lab Sample ID: S52669.13 (continued)

Sample Tag: SB-A5.5-NW194_5-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	06/07/12 14:19	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	06/12/12 02:50	WAT	123-91-1	



Analytical Laboratory Report

Lab Sample ID: S52669.14
Sample Tag: SB-A5.5-NW194_11.5-12.5
Collected Date/Time: 05/29/2012 15:48
Matrix: Soil
COC Reference: 69062

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 10:03	CCM		
Extraction, PCB	Completed			3550B	06/04/12 11:34	ADB		
Mercury Digestion	Completed			7471A	06/05/12 10:30	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/30/12 12:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/06/12 13:52	PER	7440-36-0	
Arsenic	7.99	mg/kg	0.10	6020	06/06/12 13:52	PER	7440-38-2	
Barium	14.7	mg/kg	1.0	6020	06/06/12 13:52	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/06/12 13:52	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/06/12 13:52	PER	7440-42-8	
Cadmium	0.14	mg/kg	0.10	6020	06/06/12 13:52	PER	7440-43-9	
Chromium	20.8	mg/kg	0.21	6020	06/06/12 13:52	PER	7440-47-3	
Cobalt	2.02	mg/kg	0.21	6020	06/06/12 13:52	PER	7440-48-4	
Copper	26.3	mg/kg	0.21	6020	06/06/12 13:52	PER	7440-50-8	
Lead	12.2	mg/kg	0.21	6020	06/06/12 13:52	PER	7439-92-1	
Manganese	160	mg/kg	0.21	6020	06/06/12 13:52	PER	7439-96-5	
Mercury	0.0146	mg/kg	0.0058	7471A	06/05/12 13:20	JRT	7439-97-6	
Nickel	43.4	mg/kg	0.21	6020	06/06/12 13:52	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/06/12 13:52	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/06/12 13:52	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/06/12 13:52	PER	7440-28-0	
Vanadium	Not detected	mg/kg	0.21	6020	06/06/12 13:52	PER	7440-62-2	
Zinc	17.8	mg/kg	1.0	6020	06/06/12 13:52	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	06/05/12 14:57	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/05/12 14:57	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/05/12 14:57	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/05/12 14:57	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/05/12 14:57	JANB	12672-29-6	
PCB-1254	6	ug/kg	3	8082A	06/05/12 14:57	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	06/05/12 14:57	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	208-96-8	
Acetophenone	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S52669.14 (continued)
Sample Tag: SB-A5.5-NW194_11.5-12.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	120-12-7	
Atrazine	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	600	8270C	06/07/12 08:08	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	50-32-8	I
Benzo(b)fluoranthene	500	ug/kg	300	8270C	06/07/12 08:08	PL	205-99-2	lp
Benzo(ghi)perylene	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	191-24-2	I
Benzo(k)fluoranthene	500	ug/kg	300	8270C	06/07/12 08:08	PL	207-08-9	lp
Butyl benzyl phthalate	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	105-60-2	
Carbazole	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	108-60-1	
Chrysene	400	ug/kg	300	8270C	06/07/12 08:08	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	600	8270C	06/07/12 08:08	PL	53-70-3	IX
Dibenzofuran	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	600	8270C	06/07/12 08:08	PL	84-66-2	X
Dimethyl phthalate	1,100	ug/kg	300	8270C	06/07/12 08:08	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	600	8270C	06/07/12 08:08	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	206-44-0	
Fluorene	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	193-39-5	I
Isophorone	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	95-48-7	

X-Elevated reporting limit due to matrix interference

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52669.14 (continued)
Sample Tag: SB-A5.5-NW194_11.5-12.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
3-, 4-Methylphenol	Not detected	ug/kg	600	8270C	06/07/12 08:08	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	86-30-6	
Naphthalene	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	600	8270C	06/07/12 08:08	PL	117-84-0	IX
Pentachlorophenol	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	85-01-8	
Phenol	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	108-95-2	
Pyrene	500	ug/kg	300	8270C	06/07/12 08:08	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	300	8270C	06/07/12 08:08	PL	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	208-96-8	
Acetophenone	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	98-86-2	
Anthracene	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	120-12-7	
Atrazine	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	600	8270C	06/07/12 21:44	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	56-55-3	
Benzo(a)pyrene	300	ug/kg	300	8270C	06/07/12 21:44	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	105-60-2	
Carbazole	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	108-60-1	
Chrysene	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	51-28-5	

I-Matrix interference with internal standard X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52669.14 (continued)
Sample Tag: SB-A5.5-NW194_11.5-12.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
2,4-Dinitrotoluene	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	600	8270C	06/07/12 21:44	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	600	8270C	06/07/12 21:44	PL	84-66-2	X
Dimethyl phthalate	900	ug/kg	300	8270C	06/07/12 21:44	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	600	8270C	06/07/12 21:44	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	206-44-0	
Fluorene	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	193-39-5	
Isophorone	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	600	8270C	06/07/12 21:44	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	86-30-6	
Naphthalene	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	600	8270C	06/07/12 21:44	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	85-01-8	
Phenol	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	108-95-2	
Pyrene	500	ug/kg	300	8270C	06/07/12 21:44	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	300	8270C	06/07/12 21:44	PL	88-06-2	

X-Elevated reporting limit due to matrix interference
B-Compound also found in associated method blank



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C.O.C. PAGE # 1 OF 9

69063

INVOICE TO

CONTACT NAME			
Randy Christensen			
COMPANY			
ARCADIS			
ADDRESS			
10559 Citation Drive Suite 100			
CITY			STATE
Brighton			MI
			ZIP CODE
			48116
PHONE NO.		FAX NO.	P.O. NO.
810-225-1910			PO. 25047
E-MAIL ADDRESS			QUOTE NO.
randy.christensen@arcadis-us.com			Task# 5

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208	E-MAIL ADDRESS dfavero@racertrust.org		

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Lansing Plant 2		PROJECT# B0064479		2012		SAMPLER(S) - PLEASE PRINT/SIGN NAME Morgan Medley	
TURNAROUND TIME REQUIRED		☐ 1 DAY	☐ 2 DAYS	☐ 3 DAYS	☒ STANDARD	☐ OTHER	
DELIVERABLES REQUIRED		☐ LEVEL II	☐ LEVEL III	☐ LEVEL IV	☐ EDD	☐ OTHER	

MATRIX	GW=GROUNDWATER	WW=WASTEWATER	S=SOIL	L=LIQUID	SD=SOLID
CODE	SL=SLUDGE	DW=DRINKING WATER	O=OIL	WP=WIPE	A=AIR W=WASTE

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# BOTTLES
	DATE	TIME			
52669A	5/29/02	0930	SB-AS.5-NL493-1-2	S	1
02/05/04		0955	SB-AS.5-NL493-8-9	S	3
.05		1015	SB-AS.5-NL493-45-8.5	SW	5
.06			SB-AS.5-DUP60	SW	5
.07			TRIP BLANK	L	1
.08		1110	SB-AS.5-NL493-14.5-15	S	1
.09		1115	SB-AS.5-NL493-16-17	S	1
		HS3	SB-AS.5-NOR16A-1-2	S	1
			SB-AS.5-DUP61	S	1
			SB-AS.5-NL496A-7-7.5	S	1
			SB-AS.5-NOR16B-8-9	S	1
			SB-AS.5-NOR16B-5-9	SW	5

[illegible]

RELINQUISHED BY: <i>Megan Meckley</i>	<i>X</i> <i>Sampler</i>	DATE	TIME
SIGNATURE/ORGANIZATION <i>Megan Meckley</i>		<i>5-30-20</i>	<i>9-</i>
RELINQUISHED BY: <i>[Signature]</i>	<i>Mod</i>	DATE	TIME
SIGNATURE/ORGANIZATION		<i>5-30-20</i>	<i>9-</i>
RELINQUISHED BY:		DATE	TIME
SIGNATURE/ORGANIZATION			
RELINQUISHED BY:		DATE	TIME
SIGNATURE/ORGANIZATION			

RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE 5-30-12	TIME 0930
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES:	TEMP. ON ARRIVAL 4.2
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME **Randy Christensen**
COMPANY **ARCADIS**
ADDRESS **10559 Citation Drive Suite 100**
CITY **Brighton** STATE **MI** ZIP CODE **48116**
PHONE NO. **810-225-1910** FAX NO. **PO 125047**
E-MAIL ADDRESS **randy.christensen@arcadis-us.com** QUOTE NO. **Task# 5**

CONTACT NAME **Dave Favero** ☐ SAME
COMPANY **RACER TRUST**
ADDRESS **2930 Ecorse Road**
CITY **Ypsilanti** STATE **MI** ZIP CODE **48198**
PHONE NO. **313-486-9208** E-MAIL ADDRESS **dfavero@racetrust.org**

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME **Lansing Plant 2 Project# B0064479 2012** SAMPLER(S) - PLEASE PRINT/SIGN NAME **Megan Meckley / Megan Meckley**
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIFE A=AIR W=WASTE

Containers & Preservatives

MERIT LAB NO.	YEAR	DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	VOCs/1,4 Dioxane	SVOCs	PCBs	Metals (wt%)	Certifications	Project Locations	Special Instructions
51669.10	12	8/29/12	1347	SB-A5.5-N0190B-16-17	S	1	X								X	X	X		☐ OHIO VAP ☐ Drinking Water	
				SB-A5.5-N0190B-16-17	S	1	X								X	X	X		☐ DoD ☐ NPDES	
.11			1440	SB-A5.5-NW194-0-1	S	1	X								X	X	X		☐ Detroit ☐ New York	
.12			1450	SB-A5.5-NW194-7.5-8.5	S	1	X								X	X	X		☒ Other Lansing	
.13			1504	SB-A5.5-NW194-5-9	SW	5	X							X	X	X	X		☐ Special Instructions	
.14			1548	SB-A5.5-NW194-11.5-12.5	S	1	X								X	X	X			X hold 1,4 Dioxane X metals, SVOCs & PCBs field filtered.

RELINQUISHED BY: **Megan Meckley** DATE **5-30-12** TIME **9:00**
SIGNATURE/ORGANIZATION: **Megan Meckley**
RELINQUISHED BY: **[Signature]** DATE **5-30-12** TIME **9:00**
SIGNATURE/ORGANIZATION: **[Signature]**
RELINQUISHED BY: DATE TIME
SIGNATURE/ORGANIZATION: DATE TIME
RELINQUISHED BY: DATE TIME
SIGNATURE/ORGANIZATION: DATE TIME

RELINQUISHED BY: DATE TIME
SIGNATURE/ORGANIZATION: **[Signature]**
RELINQUISHED BY: DATE TIME
SIGNATURE/ORGANIZATION: **[Signature]**
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
NOTES: TEMP. ON ARRIVAL **42**



Analytical Laboratory Report

Revised Report

Report ID: S52683.01(02)

Generated on 06/19/2012

Replaces report S52683.01(01) generated on 06/08/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52683.01-S52683.27

Project: Lansing Plant #2 Project# B0064479.2012

Collected Date: 05/30/2012

Submitted Date/Time: 05/31/2012 10:00

Sampled by: Megan Meckley

P.O. #: PO125047

.02 sample tag corrected

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Revised Report

Sample Summary (27 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52683.01	SB-A5.3-OR159_1-2	Soil	05/30/2012 09:12
S52683.02	SB-A5.3-DUP58	Soil	05/30/2012 00:01
S52683.03	SB-A5.3-OR159_7-8	Soil	05/30/2012 09:39
S52683.04	SB-A5.3-OR159_14.5-15.5	Soil	05/30/2012 09:55
S52683.05	SB-A5.3-OV154_1.3-2	Soil	05/30/2012 10:45
S52683.06	SB-A5.3-OV154_7.5-8.5	Soil	05/30/2012 11:02
S52683.07	SB-A5.3-OV154_16-17	Soil	05/30/2012 11:10
S52683.08	SB-A5.3-OV163_1.3-2	Soil	05/30/2012 11:25
S52683.09	SB-A5.3-OV163_6-7	Soil	05/30/2012 11:40
S52683.10	SB-A5.3-OV163_6-7 MS	Soil	05/30/2012 11:40
S52683.11	SB-A5.3-OV163_6-7 MSD	Soil	05/30/2012 11:40
S52683.12	SB-A5.3-OV163_3-7	Groundwater	05/30/2012 11:58
S52683.13	SB-A5.3-OV163_16-17	Soil	05/30/2012 13:19
S52683.14	SB-A5.3-OW168_1-2	Soil	05/30/2012 13:38
S52683.15	SB-A5.3-OW168_5-6	Soil	05/30/2012 14:00
S52683.16	SB-A5.3-OW168_16-17	Soil	05/30/2012 14:15
S52683.17	SB-A5.3-DUP59	Soil	05/30/2012 00:01
S52683.18	SB-A5.3-OQ168_1-2	Soil	05/30/2012 14:59
S52683.19	SB-A5.3-OQ168_6-7	Soil	05/30/2012 15:05
S52683.20	SB-A5.3-OQ168_6-7 MS	Soil	05/30/2012 15:05
S52683.21	SB-A5.3-OQ168_6-7 MSD	Soil	05/30/2012 15:05
S52683.22	SB-A5.3-OQ168_6-10	Groundwater	05/30/2012 15:15
S52683.23	SB-A5.3-OQ175_1-2	Soil	05/30/2012 16:19
S52683.24	SB-A5.3-OQ168_16-17	Soil	05/30/2012 16:26
S52683.25	SB-A5.3-OQ175_6-7	Soil	05/30/2012 16:45
S52683.26	SB-A5.3-OQ175_16-17	Soil	05/30/2012 16:50
S52683.27	Trip Blank	Water	05/30/2012 00:01



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.01
Sample Tag: SB-A5.3-OR159_1-2
Collected Date/Time: 05/30/2012 09:12
Matrix: Soil
COC Reference: 67416

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 10:03	CCM		
Mercury Digestion	Completed			7471A	06/05/12 13:00	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:00	PER		

Inorganics

Total Solids	79	%	1	Std M 2540 B	05/31/12 15:00	WAR		
--------------	----	---	---	--------------	----------------	-----	--	--

Metals

Antimony	Not detected	mg/kg	0.20	6020	06/06/12 13:54	PER	7440-36-0	
Arsenic	0.55	mg/kg	0.10	6020	06/06/12 13:54	PER	7440-38-2	
Barium	14.0	mg/kg	1.0	6020	06/06/12 13:54	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/06/12 13:54	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/06/12 13:54	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/06/12 13:54	PER	7440-43-9	
Chromium	3.08	mg/kg	0.20	6020	06/06/12 13:54	PER	7440-47-3	
Cobalt	10.6	mg/kg	0.20	6020	06/06/12 13:54	PER	7440-48-4	
Copper	4.02	mg/kg	0.20	6020	06/06/12 13:54	PER	7440-50-8	
Lead	3.91	mg/kg	0.20	6020	06/06/12 13:54	PER	7439-92-1	
Manganese	99.6	mg/kg	0.20	6020	06/06/12 13:54	PER	7439-96-5	
Mercury	0.0078	mg/kg	0.0062	7471A	06/05/12 15:59	JRT	7439-97-6	
Nickel	3.66	mg/kg	0.20	6020	06/06/12 13:54	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/06/12 13:54	PER	7782-49-2	
Silver	1.33	mg/kg	0.10	6020	06/06/12 13:54	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/06/12 13:54	PER	7440-28-0	
Vanadium	6.28	mg/kg	0.20	6020	06/06/12 13:54	PER	7440-62-2	
Zinc	11.3	mg/kg	1.0	6020	06/06/12 13:54	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	98-86-2	X
Anthracene	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	120-12-7	X
Atrazine	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	3,000	8270C	06/07/12 06:26	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	191-24-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.01 (continued)

Sample Tag: SB-A5.3-OR159_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	105-60-2	X
Carbazole	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	108-60-1	X
Chrysene	2,000	ug/kg	1,000	8270C	06/07/12 06:26	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	3,000	8270C	06/07/12 06:26	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	3,000	8270C	06/07/12 06:26	PL	84-66-2	X
Dimethyl phthalate	1,000	ug/kg	1,000	8270C	06/07/12 06:26	PL	131-11-3	XB
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	3,000	8270C	06/07/12 06:26	PL	117-81-7	X
Fluoranthene	2,000	ug/kg	1,000	8270C	06/07/12 06:26	PL	206-44-0	X
Fluorene	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	193-39-5	X
Isophorone	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	3,000	8270C	06/07/12 06:26	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	86-30-6	X
Naphthalene	3,000	ug/kg	1,000	8270C	06/07/12 06:26	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	3,000	8270C	06/07/12 06:26	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	87-86-5	X

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.01 (continued)

Sample Tag: SB-A5.3-OR159_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenanthrene	3,000	ug/kg	1,000	8270C	06/07/12 06:26	PL	85-01-8	X
Phenol	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	108-95-2	X
Pyrene	2,000	ug/kg	1,000	8270C	06/07/12 06:26	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	1,000	8270C	06/07/12 06:26	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.02
Sample Tag: SB-A5.3-DUP58
Collected Date/Time: 05/30/2012 00:01
Matrix: Soil
COC Reference: 67416

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 10:03	CCM		
Mercury Digestion	Completed			7471A	06/05/12 13:00	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/31/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/06/12 13:56	PER	7440-36-0	
Arsenic	1.47	mg/kg	0.10	6020	06/06/12 13:56	PER	7440-38-2	
Barium	21.5	mg/kg	1.0	6020	06/06/12 13:56	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/06/12 13:56	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/06/12 13:56	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/06/12 13:56	PER	7440-43-9	
Chromium	5.12	mg/kg	0.21	6020	06/06/12 13:56	PER	7440-47-3	
Cobalt	2.81	mg/kg	0.21	6020	06/06/12 13:56	PER	7440-48-4	
Copper	7.66	mg/kg	0.21	6020	06/06/12 13:56	PER	7440-50-8	
Lead	3.51	mg/kg	0.21	6020	06/06/12 13:56	PER	7439-92-1	
Manganese	198	mg/kg	0.21	6020	06/06/12 13:56	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0054	7471A	06/05/12 16:01	JRT	7439-97-6	
Nickel	8.41	mg/kg	0.21	6020	06/06/12 13:56	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/06/12 13:56	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/06/12 13:56	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/06/12 13:56	PER	7440-28-0	
Vanadium	7.17	mg/kg	0.21	6020	06/06/12 13:56	PER	7440-62-2	
Zinc	16.1	mg/kg	1.0	6020	06/06/12 13:56	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	98-86-2	X
Anthracene	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	120-12-7	X
Atrazine	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 07:00	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	191-24-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.02 (continued)

Sample Tag: SB-A5.3-DUP58

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	105-60-2	X
Carbazole	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	108-60-1	X
Chrysene	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	06/07/12 07:00	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 07:00	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 07:00	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	206-44-0	X
Fluorene	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	193-39-5	X
Isophorone	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	06/07/12 07:00	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 07:00	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	87-86-5	X
Phenanthrene	1,000	ug/kg	1,000	8270C	06/07/12 07:00	PL	85-01-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.02 (continued)

Sample Tag: SB-A5.3-DUP58

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	108-95-2	X
Pyrene	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	1,000	8270C	06/07/12 07:00	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.03

Sample Tag: SB-A5.3-OR159_7-8

Collected Date/Time: 05/30/2012 09:39

Matrix: Soil

COC Reference: 67416

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 10:03	CCM		
Mercury Digestion	Completed			7471A	06/05/12 13:00	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:00	PER		

Inorganics

Total Solids	79	%	1	Std M 2540 B	05/31/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.22	6020	06/06/12 13:58	PER	7440-36-0	
Arsenic	0.58	mg/kg	0.11	6020	06/06/12 13:58	PER	7440-38-2	
Barium	59.9	mg/kg	1.1	6020	06/06/12 13:58	PER	7440-39-3	
Beryllium	0.34	mg/kg	0.22	6020	06/06/12 13:58	PER	7440-41-7	
Boron	Not detected	mg/kg	4.4	6020	06/06/12 13:58	PER	7440-42-8	
Cadmium	0.29	mg/kg	0.11	6020	06/06/12 13:58	PER	7440-43-9	
Chromium	7.57	mg/kg	0.22	6020	06/06/12 13:58	PER	7440-47-3	
Cobalt	3.98	mg/kg	0.22	6020	06/06/12 13:58	PER	7440-48-4	
Copper	12.1	mg/kg	0.22	6020	06/06/12 13:58	PER	7440-50-8	
Lead	12.2	mg/kg	0.22	6020	06/06/12 13:58	PER	7439-92-1	
Manganese	148	mg/kg	0.22	6020	06/06/12 13:58	PER	7439-96-5	
Mercury	0.0385	mg/kg	0.0064	7471A	06/05/12 16:03	JRT	7439-97-6	
Nickel	8.36	mg/kg	0.22	6020	06/06/12 13:58	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.22	6020	06/06/12 13:58	PER	7782-49-2	
Silver	Not detected	mg/kg	0.11	6020	06/06/12 13:58	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.22	6020	06/06/12 13:58	PER	7440-28-0	
Vanadium	15.2	mg/kg	0.22	6020	06/06/12 13:58	PER	7440-62-2	
Zinc	29.6	mg/kg	1.1	6020	06/06/12 13:58	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	98-86-2	X
Anthracene	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	120-12-7	X
Atrazine	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	1,000	8270C	06/07/12 05:17	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	100-52-7	X
Benzo(a)anthracene	1,500	ug/kg	600	8270C	06/07/12 05:17	PL	56-55-3	X
Benzo(a)pyrene	1,400	ug/kg	600	8270C	06/07/12 05:17	PL	50-32-8	X
Benzo(b)fluoranthene	2,400	ug/kg	600	8270C	06/07/12 05:17	PL	205-99-2	Xp

X-Elevated reporting limit due to matrix interference

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.03 (continued)

Sample Tag: SB-A5.3-OR159_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	191-24-2	X
Benzo(k)fluoranthene	2,500	ug/kg	600	8270C	06/07/12 05:17	PL	207-08-9	Xp
Butyl benzyl phthalate	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	105-60-2	X
Carbazole	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	108-60-1	X
Chrysene	1,700	ug/kg	600	8270C	06/07/12 05:17	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	1,000	8270C	06/07/12 05:17	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	1,000	8270C	06/07/12 05:17	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	1,000	8270C	06/07/12 05:17	PL	117-81-7	X
Fluoranthene	2,800	ug/kg	600	8270C	06/07/12 05:17	PL	206-44-0	X
Fluorene	600	ug/kg	600	8270C	06/07/12 05:17	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	193-39-5	X
Isophorone	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	1,000	8270C	06/07/12 05:17	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	1,000	8270C	06/07/12 05:17	PL	117-84-0	X

X-Elevated reporting limit due to matrix interference

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.03 (continued)

Sample Tag: SB-A5.3-OR159_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pentachlorophenol	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	87-86-5	X
Phenanthrene	2,900	ug/kg	600	8270C	06/07/12 05:17	PL	85-01-8	X
Phenol	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	108-95-2	X
Pyrene	2,300	ug/kg	600	8270C	06/07/12 05:17	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	600	8270C	06/07/12 05:17	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.04
Sample Tag: SB-A5.3-OR159_14.5-15.5
Collected Date/Time: 05/30/2012 09:55
Matrix: Soil
COC Reference: 67416

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 10:03	CCM		
Mercury Digestion	Completed			7471A	06/05/12 13:00	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	05/31/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/06/12 14:00	PER	7440-36-0	
Arsenic	1.15	mg/kg	0.10	6020	06/06/12 14:00	PER	7440-38-2	
Barium	17.0	mg/kg	1.0	6020	06/06/12 14:00	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/06/12 14:00	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/06/12 14:00	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/06/12 14:00	PER	7440-43-9	
Chromium	3.16	mg/kg	0.21	6020	06/06/12 14:00	PER	7440-47-3	
Cobalt	2.28	mg/kg	0.21	6020	06/06/12 14:00	PER	7440-48-4	
Copper	5.42	mg/kg	0.21	6020	06/06/12 14:00	PER	7440-50-8	
Lead	3.47	mg/kg	0.21	6020	06/06/12 14:00	PER	7439-92-1	
Manganese	173	mg/kg	0.21	6020	06/06/12 14:00	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0057	7471A	06/05/12 16:05	JRT	7439-97-6	
Nickel	6.47	mg/kg	0.21	6020	06/06/12 14:00	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/06/12 14:00	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/06/12 14:00	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/06/12 14:00	PER	7440-28-0	
Vanadium	5.81	mg/kg	0.21	6020	06/06/12 14:00	PER	7440-62-2	
Zinc	13.3	mg/kg	1.0	6020	06/06/12 14:00	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	98-86-2	X
Anthracene	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	120-12-7	X
Atrazine	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	4,000	8270C	06/07/12 07:34	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	191-24-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.04 (continued)
Sample Tag: SB-A5.3-OR159_14.5-15.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	105-60-2	X
Carbazole	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	108-60-1	X
Chrysene	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	4,000	8270C	06/07/12 07:34	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	4,000	8270C	06/07/12 07:34	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	4,000	8270C	06/07/12 07:34	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	206-44-0	X
Fluorene	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	193-39-5	X
Isophorone	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	4,000	8270C	06/07/12 07:34	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	4,000	8270C	06/07/12 07:34	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	87-86-5	X
Phenanthrene	3,000	ug/kg	2,000	8270C	06/07/12 07:34	PL	85-01-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.04 (continued)
Sample Tag: SB-A5.3-OR159_14.5-15.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	108-95-2	X
Pyrene	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	2,000	8270C	06/07/12 07:34	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.05
Sample Tag: SB-A5.3-OV154_1.3-2
Collected Date/Time: 05/30/2012 10:45
Matrix: Soil
COC Reference: 67416

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 10:03	CCM		
Mercury Digestion	Completed			7471A	06/05/12 13:00	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:00	PER		

Inorganics

Total Solids	84	%	1	Std M 2540 B	05/31/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/06/12 14:02	PER	7440-36-0	
Arsenic	0.63	mg/kg	0.10	6020	06/06/12 14:02	PER	7440-38-2	
Barium	91.2	mg/kg	1.0	6020	06/06/12 14:02	PER	7440-39-3	
Beryllium	0.96	mg/kg	0.21	6020	06/06/12 14:02	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/06/12 14:02	PER	7440-42-8	
Cadmium	0.18	mg/kg	0.10	6020	06/06/12 14:02	PER	7440-43-9	
Chromium	9.34	mg/kg	0.21	6020	06/06/12 14:02	PER	7440-47-3	
Cobalt	7.62	mg/kg	0.21	6020	06/06/12 14:02	PER	7440-48-4	
Copper	4.66	mg/kg	0.21	6020	06/06/12 14:02	PER	7440-50-8	
Lead	9.49	mg/kg	0.21	6020	06/06/12 14:02	PER	7439-92-1	
Manganese	256	mg/kg	0.21	6020	06/06/12 14:02	PER	7439-96-5	
Mercury	0.0531	mg/kg	0.0059	7471A	06/05/12 16:08	JRT	7439-97-6	
Nickel	8.47	mg/kg	0.21	6020	06/06/12 14:02	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/06/12 14:02	PER	7782-49-2	
Silver	0.10	mg/kg	0.10	6020	06/06/12 14:02	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/06/12 14:02	PER	7440-28-0	
Vanadium	11.0	mg/kg	0.21	6020	06/06/12 14:02	PER	7440-62-2	
Zinc	19.7	mg/kg	1.0	6020	06/06/12 14:02	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/07/12 00:44	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	207-08-9	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.05 (continued)

Sample Tag: SB-A5.3-OV154_1.3-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/07/12 00:44	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/07/12 00:44	PL	84-66-2	
Dimethyl phthalate	250	ug/kg	40	8270C	06/07/12 00:44	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/07/12 00:44	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/07/12 00:44	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/07/12 00:44	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.05 (continued)

Sample Tag: SB-A5.3-OV154_1.3-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 00:44	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.06

Sample Tag: SB-A5.3-OV154_7.5-8.5

Collected Date/Time: 05/30/2012 11:02

Matrix: Soil

COC Reference: 67416

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 10:03	CCM		
Mercury Digestion	Completed			7471A	06/05/12 13:00	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/31/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/06/12 14:04	PER	7440-36-0	
Arsenic	0.82	mg/kg	0.10	6020	06/06/12 14:04	PER	7440-38-2	
Barium	30.7	mg/kg	1.0	6020	06/06/12 14:04	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/06/12 14:04	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/06/12 14:04	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/06/12 14:04	PER	7440-43-9	
Chromium	7.13	mg/kg	0.20	6020	06/06/12 14:04	PER	7440-47-3	
Cobalt	2.60	mg/kg	0.20	6020	06/06/12 14:04	PER	7440-48-4	
Copper	7.59	mg/kg	0.20	6020	06/06/12 14:04	PER	7440-50-8	
Lead	3.60	mg/kg	0.20	6020	06/06/12 14:04	PER	7439-92-1	
Manganese	187	mg/kg	0.20	6020	06/06/12 14:04	PER	7439-96-5	
Mercury	0.0075	mg/kg	0.0055	7471A	06/05/12 16:10	JRT	7439-97-6	
Nickel	8.82	mg/kg	0.20	6020	06/06/12 14:04	PER	7440-02-0	
Selenium	0.23	mg/kg	0.20	6020	06/06/12 14:04	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/06/12 14:04	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/06/12 14:04	PER	7440-28-0	
Vanadium	7.47	mg/kg	0.20	6020	06/06/12 14:04	PER	7440-62-2	
Zinc	19.0	mg/kg	1.0	6020	06/06/12 14:04	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	98-86-2	X
Anthracene	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	120-12-7	X
Atrazine	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 05:52	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	191-24-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.06 (continued)

Sample Tag: SB-A5.3-OV154_7.5-8.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	105-60-2	X
Carbazole	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	108-60-1	X
Chrysene	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	06/07/12 05:52	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 05:52	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 05:52	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	206-44-0	X
Fluorene	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	193-39-5	X
Isophorone	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	06/07/12 05:52	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 05:52	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	87-86-5	X
Phenanthrene	1,000	ug/kg	1,000	8270C	06/07/12 05:52	PL	85-01-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.06 (continued)

Sample Tag: SB-A5.3-OV154_7.5-8.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	108-95-2	X
Pyrene	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	1,000	8270C	06/07/12 05:52	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.07

Sample Tag: SB-A5.3-OV154_16-17

Collected Date/Time: 05/30/2012 11:10

Matrix: Soil

COC Reference: 67416

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 10:03	CCM		
Mercury Digestion	Completed			7471A	06/05/12 13:00	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/31/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/06/12 14:06	PER	7440-36-0	
Arsenic	1.40	mg/kg	0.10	6020	06/06/12 14:06	PER	7440-38-2	
Barium	30.7	mg/kg	1.0	6020	06/06/12 14:06	PER	7440-39-3	
Beryllium	0.22	mg/kg	0.20	6020	06/06/12 14:06	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/06/12 14:06	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/06/12 14:06	PER	7440-43-9	
Chromium	6.33	mg/kg	0.20	6020	06/06/12 14:06	PER	7440-47-3	
Cobalt	3.74	mg/kg	0.20	6020	06/06/12 14:06	PER	7440-48-4	
Copper	9.04	mg/kg	0.20	6020	06/06/12 14:06	PER	7440-50-8	
Lead	4.17	mg/kg	0.20	6020	06/06/12 14:06	PER	7439-92-1	
Manganese	220	mg/kg	0.20	6020	06/06/12 14:06	PER	7439-96-5	
Mercury	0.0091	mg/kg	0.0055	7471A	06/05/12 16:12	JRT	7439-97-6	
Nickel	10.8	mg/kg	0.20	6020	06/06/12 14:06	PER	7440-02-0	
Selenium	0.21	mg/kg	0.20	6020	06/06/12 14:06	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/06/12 14:06	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/06/12 14:06	PER	7440-28-0	
Vanadium	9.29	mg/kg	0.20	6020	06/06/12 14:06	PER	7440-62-2	
Zinc	16.2	mg/kg	1.0	6020	06/06/12 14:06	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 01:18	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	207-08-9	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.07 (continued)

Sample Tag: SB-A5.3-OV154_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/07/12 01:18	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 01:18	PL	84-66-2	
Dimethyl phthalate	280	ug/kg	40	8270C	06/07/12 01:18	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/07/12 01:18	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/07/12 01:18	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 01:18	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.07 (continued)

Sample Tag: SB-A5.3-OV154_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 01:18	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.08
Sample Tag: SB-A5.3-OV163_1.3-2
Collected Date/Time: 05/30/2012 11:25
Matrix: Soil
COC Reference: 67416

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 10:03	CCM		
Mercury Digestion	Completed			7471A	06/05/12 13:00	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/31/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/06/12 14:08	PER	7440-36-0	
Arsenic	2.71	mg/kg	0.10	6020	06/06/12 14:08	PER	7440-38-2	
Barium	32.5	mg/kg	1.0	6020	06/06/12 14:08	PER	7440-39-3	
Beryllium	0.23	mg/kg	0.20	6020	06/06/12 14:08	PER	7440-41-7	
Boron	7.05	mg/kg	4.1	6020	06/06/12 14:08	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/06/12 14:08	PER	7440-43-9	
Chromium	9.72	mg/kg	0.20	6020	06/06/12 14:08	PER	7440-47-3	
Cobalt	28.3	mg/kg	0.20	6020	06/06/12 14:08	PER	7440-48-4	
Copper	13.1	mg/kg	0.20	6020	06/06/12 14:08	PER	7440-50-8	
Lead	6.03	mg/kg	0.20	6020	06/06/12 14:08	PER	7439-92-1	
Manganese	264	mg/kg	0.20	6020	06/06/12 14:08	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0058	7471A	06/05/12 16:14	JRT	7439-97-6	
Nickel	11.9	mg/kg	0.20	6020	06/06/12 14:08	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/06/12 14:08	PER	7782-49-2	
Silver	2.42	mg/kg	0.10	6020	06/06/12 14:08	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/06/12 14:08	PER	7440-28-0	
Vanadium	11.3	mg/kg	0.20	6020	06/06/12 14:08	PER	7440-62-2	
Zinc	13.0	mg/kg	1.0	6020	06/06/12 14:08	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	98-86-2	X
Anthracene	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	120-12-7	X
Atrazine	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	800	8270C	06/08/12 07:45	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	191-24-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.08 (continued)

Sample Tag: SB-A5.3-OV163_1.3-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	105-60-2	X
Carbazole	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	108-60-1	X
Chrysene	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	800	8270C	06/08/12 07:45	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	800	8270C	06/08/12 07:45	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	800	8270C	06/08/12 07:45	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	206-44-0	X
Fluorene	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	193-39-5	X
Isophorone	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	800	8270C	06/08/12 07:45	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	800	8270C	06/08/12 07:45	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	85-01-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.08 (continued)

Sample Tag: SB-A5.3-OV163_1.3-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	108-95-2	X
Pyrene	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	400	8270C	06/08/12 07:45	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.09
Sample Tag: SB-A5.3-OV163_6-7
Collected Date/Time: 05/30/2012 11:40
Matrix: Soil
COC Reference: 67416

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 10:03	CCM		
Mercury Digestion	Completed			7471A	06/05/12 13:00	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/31/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/06/12 14:14	PER	7440-36-0	
Arsenic	1.39	mg/kg	0.10	6020	06/06/12 14:14	PER	7440-38-2	
Barium	6.06	mg/kg	1.0	6020	06/06/12 14:14	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/06/12 14:14	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/06/12 14:14	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/06/12 14:14	PER	7440-43-9	
Chromium	2.62	mg/kg	0.20	6020	06/06/12 14:14	PER	7440-47-3	
Cobalt	1.86	mg/kg	0.20	6020	06/06/12 14:14	PER	7440-48-4	
Copper	4.23	mg/kg	0.20	6020	06/06/12 14:14	PER	7440-50-8	
Lead	2.13	mg/kg	0.20	6020	06/06/12 14:14	PER	7439-92-1	
Manganese	113	mg/kg	0.20	6020	06/06/12 14:14	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0058	7471A	06/05/12 16:19	JRT	7439-97-6	
Nickel	4.68	mg/kg	0.20	6020	06/06/12 14:14	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/06/12 14:14	PER	7782-49-2	
Silver	0.13	mg/kg	0.10	6020	06/06/12 14:14	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/06/12 14:14	PER	7440-28-0	
Vanadium	3.40	mg/kg	0.20	6020	06/06/12 14:14	PER	7440-62-2	
Zinc	10.1	mg/kg	1.0	6020	06/06/12 14:14	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	98-86-2	X
Anthracene	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	120-12-7	X
Atrazine	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	8,000	8270C	06/07/12 08:43	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	191-24-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.09 (continued)

Sample Tag: SB-A5.3-OV163_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	105-60-2	X
Carbazole	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	108-60-1	X
Chrysene	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	8,000	8270C	06/07/12 08:43	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	8,000	8270C	06/07/12 08:43	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	8,000	8270C	06/07/12 08:43	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	206-44-0	X
Fluorene	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	193-39-5	X
Isophorone	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	8,000	8270C	06/07/12 08:43	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	8,000	8270C	06/07/12 08:43	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	85-01-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.09 (continued)

Sample Tag: SB-A5.3-OV163_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	108-95-2	X
Pyrene	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	4,000	8270C	06/07/12 08:43	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.10
Sample Tag: SB-A5.3-OV163_6-7 MS
Collected Date/Time: 05/30/2012 11:40
Matrix: Soil
COC Reference: 67416

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 10:03	CCM		
Mercury Digestion	Completed			7471A	06/05/12 13:00	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/31/12 15:00	WAR		
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Metals

Antimony	22.6	mg/kg	0.20	6020	06/06/12 14:20	PER	7440-36-0	
Arsenic	23.7	mg/kg	0.10	6020	06/06/12 14:20	PER	7440-38-2	
Barium	26.2	mg/kg	1.0	6020	06/06/12 14:20	PER	7440-39-3	
Beryllium	21.2	mg/kg	0.20	6020	06/06/12 14:20	PER	7440-41-7	
Boron	20.9	mg/kg	4.1	6020	06/06/12 14:20	PER	7440-42-8	
Cadmium	22.2	mg/kg	0.10	6020	06/06/12 14:20	PER	7440-43-9	
Chromium	24.0	mg/kg	0.20	6020	06/06/12 14:20	PER	7440-47-3	
Cobalt	23.4	mg/kg	0.20	6020	06/06/12 14:20	PER	7440-48-4	
Copper	24.0	mg/kg	0.20	6020	06/06/12 14:20	PER	7440-50-8	
Lead	21.8	mg/kg	0.20	6020	06/06/12 14:20	PER	7439-92-1	
Manganese	135	mg/kg	0.20	6020	06/06/12 14:20	PER	7439-96-5	
Mercury	0.1212	mg/kg	0.0058	7471A	06/05/12 16:21	JRT	7439-97-6	
Nickel	24.1	mg/kg	0.20	6020	06/06/12 14:20	PER	7440-02-0	
Selenium	21.9	mg/kg	0.20	6020	06/06/12 14:20	PER	7782-49-2	
Silver	20.7	mg/kg	0.10	6020	06/06/12 14:20	PER	7440-22-4	
Thallium	20.0	mg/kg	0.20	6020	06/06/12 14:20	PER	7440-28-0	
Vanadium	26.3	mg/kg	0.20	6020	06/06/12 14:20	PER	7440-62-2	
Zinc	29.7	mg/kg	1.0	6020	06/06/12 14:20	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	4,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	83-32-9	X
Acenaphthylene	5,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	208-96-8	X
Acetophenone	4,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	98-86-2	X
Anthracene	4,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	120-12-7	X
Atrazine	4,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	1912-24-9	X
1,1'-Biphenyl	4,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	92-52-4	X
4-Bromophenyl phenyl ether	5,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	8,000	8270C	06/07/12 09:17	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	100-52-7	X
Benzo(a)anthracene	5,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	56-55-3	X
Benzo(a)pyrene	6,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	50-32-8	X
Benzo(b)fluoranthene	5,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	191-24-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.10 (continued)

Sample Tag: SB-A5.3-OV163_6-7 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	5,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	207-08-9	X
Butyl benzyl phthalate	5,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	85-68-7	X
2-Chloronaphthalene	5,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	106-47-8	X
4-Chlorophenyl phenyl ether	5,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	105-60-2	X
Carbazole	5,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	4,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	108-60-1	X
Chrysene	5,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	120-83-2	X
2,4-Dimethylphenol	4,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	121-14-2	X
2,6-Dinitrotoluene	6,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	8,000	8270C	06/07/12 09:17	PL	53-70-3	X
Dibenzofuran	4,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	8,000	8270C	06/07/12 09:17	PL	84-66-2	X
Dimethyl phthalate	5,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	131-11-3	XB
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	8,000	8270C	06/07/12 09:17	PL	117-81-7	X
Fluoranthene	5,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	206-44-0	X
Fluorene	4,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	86-73-7	X
Hexachlorobenzene	5,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	118-74-1	X
Hexachlorobutadiene	4,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	193-39-5	X
Isophorone	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	8,000	8270C	06/07/12 09:17	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	99-09-2	X
4-Nitroaniline	4,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	98-95-3	X
di-n-Octyl phthalate	9,000	ug/kg	8,000	8270C	06/07/12 09:17	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	87-86-5	X

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.10 (continued)

Sample Tag: SB-A5.3-OV163_6-7 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenanthrene	5,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	85-01-8	X
Phenol	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	108-95-2	X
Pyrene	5,000	ug/kg	4,000	8270C	06/07/12 09:17	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	4,000	8270C	06/07/12 09:17	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.11

Sample Tag: SB-A5.3-OV163_6-7 MSD

Collected Date/Time: 05/30/2012 11:40

Matrix: Soil

COC Reference: 67416

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 10:03	CCM		
Mercury Digestion	Completed			7471A	06/05/12 13:00	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/31/12 15:00	WAR		
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Metals

Antimony	22.6	mg/kg	0.20	6020	06/06/12 14:23	PER	7440-36-0	
Arsenic	23.3	mg/kg	0.10	6020	06/06/12 14:23	PER	7440-38-2	
Barium	26.8	mg/kg	1.0	6020	06/06/12 14:23	PER	7440-39-3	
Beryllium	21.1	mg/kg	0.20	6020	06/06/12 14:23	PER	7440-41-7	
Boron	20.9	mg/kg	4.1	6020	06/06/12 14:23	PER	7440-42-8	
Cadmium	22.0	mg/kg	0.10	6020	06/06/12 14:23	PER	7440-43-9	
Chromium	24.2	mg/kg	0.20	6020	06/06/12 14:23	PER	7440-47-3	
Cobalt	23.1	mg/kg	0.20	6020	06/06/12 14:23	PER	7440-48-4	
Copper	23.3	mg/kg	0.20	6020	06/06/12 14:23	PER	7440-50-8	
Lead	21.8	mg/kg	0.20	6020	06/06/12 14:23	PER	7439-92-1	
Manganese	135	mg/kg	0.20	6020	06/06/12 14:23	PER	7439-96-5	
Mercury	0.1211	mg/kg	0.0058	7471A	06/05/12 16:23	JRT	7439-97-6	
Nickel	24.1	mg/kg	0.20	6020	06/06/12 14:23	PER	7440-02-0	
Selenium	20.7	mg/kg	0.20	6020	06/06/12 14:23	PER	7782-49-2	
Silver	20.7	mg/kg	0.10	6020	06/06/12 14:23	PER	7440-22-4	
Thallium	20.2	mg/kg	0.20	6020	06/06/12 14:23	PER	7440-28-0	
Vanadium	25.8	mg/kg	0.20	6020	06/06/12 14:23	PER	7440-62-2	
Zinc	29.6	mg/kg	1.0	6020	06/06/12 14:23	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	4,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	83-32-9	X
Acenaphthylene	5,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	208-96-8	X
Acetophenone	4,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	98-86-2	X
Anthracene	4,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	120-12-7	X
Atrazine	5,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	1912-24-9	X
1,1'-Biphenyl	4,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	92-52-4	X
4-Bromophenyl phenyl ether	5,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	8,000	8270C	06/07/12 09:51	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	4,000	8270C	06/07/12 09:51	PL	100-52-7	X
Benzo(a)anthracene	5,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	56-55-3	X
Benzo(a)pyrene	6,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	50-32-8	X
Benzo(b)fluoranthene	6,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	4,000	8270C	06/07/12 09:51	PL	191-24-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.11 (continued)

Sample Tag: SB-A5.3-OV163_6-7 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	5,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	207-08-9	X
Butyl benzyl phthalate	5,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	85-68-7	X
2-Chloronaphthalene	5,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	91-58-7	X
2-Chlorophenol	4,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	95-57-8	X
4-Chloro-3-methylphenol	4,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	4,000	8270C	06/07/12 09:51	PL	106-47-8	X
4-Chlorophenyl phenyl ether	5,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	7005-72-3	X
Caprolactam	4,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	105-60-2	X
Carbazole	5,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	86-74-8	X
bis(2-Chloroethoxy)methane	4,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	4,000	8270C	06/07/12 09:51	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	4,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	108-60-1	X
Chrysene	5,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	218-01-9	X
2,4-Dichlorophenol	4,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	120-83-2	X
2,4-Dimethylphenol	4,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	4,000	8270C	06/07/12 09:51	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	4,000	8270C	06/07/12 09:51	PL	121-14-2	X
2,6-Dinitrotoluene	6,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	4,000	8270C	06/07/12 09:51	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	4,000	8270C	06/07/12 09:51	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	8,000	8270C	06/07/12 09:51	PL	53-70-3	X
Dibenzofuran	4,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	8,000	8270C	06/07/12 09:51	PL	84-66-2	X
Dimethyl phthalate	6,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	131-11-3	XB
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	8,000	8270C	06/07/12 09:51	PL	117-81-7	X
Fluoranthene	5,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	206-44-0	X
Fluorene	4,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	86-73-7	X
Hexachlorobenzene	5,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	118-74-1	X
Hexachlorobutadiene	4,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	4,000	8270C	06/07/12 09:51	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	4,000	8270C	06/07/12 09:51	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	4,000	8270C	06/07/12 09:51	PL	193-39-5	X
Isophorone	4,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	78-59-1	X
2-Methylnaphthalene	4,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	91-57-6	X
2-Methylphenol	4,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	8,000	8270C	06/07/12 09:51	PL	3/4-Cresol	X
2-Nitroaniline	4,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	4,000	8270C	06/07/12 09:51	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	4,000	8270C	06/07/12 09:51	PL	99-09-2	X
4-Nitroaniline	5,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	4,000	8270C	06/07/12 09:51	PL	100-02-7	X
N-Nitrosodi-n-propylamine	4,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	4,000	8270C	06/07/12 09:51	PL	86-30-6	X
Naphthalene	4,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	91-20-3	X
Nitrobenzene	4,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	98-95-3	X
di-n-Octyl phthalate	9,000	ug/kg	8,000	8270C	06/07/12 09:51	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	4,000	8270C	06/07/12 09:51	PL	87-86-5	X

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.11 (continued)

Sample Tag: SB-A5.3-OV163_6-7 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenanthrene	5,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	85-01-8	X
Phenol	4,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	108-95-2	X
Pyrene	5,000	ug/kg	4,000	8270C	06/07/12 09:51	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	4,000	8270C	06/07/12 09:51	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	4,000	8270C	06/07/12 09:51	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.12
Sample Tag: SB-A5.3-OV163_3-7
Collected Date/Time: 05/30/2012 11:58
Matrix: Groundwater
COC Reference: 67416

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.5	IR
2	40ml Glass	HCL	Yes	4.5	IR
1	125ml Plastic	HNO3	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	06/05/12 20:19	EMR		
Extraction, PCB	Completed			3510C	06/01/12 12:40	ADB		
Mercury Digestion	Completed			7471A	06/05/12 15:55	JRH		
Metal Digestion	Completed			3015A	06/07/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:36	SLS	7440-36-0	
Arsenic, Dissolved	0.080	mg/L	0.002	6020	06/07/12 22:36	SLS	7440-38-2	
Barium, Dissolved	0.036	mg/L	0.010	6020	06/07/12 22:36	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 22:36	SLS	7440-41-7	
Boron, Dissolved	0.20	mg/L	0.04	6020	06/07/12 22:36	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 22:36	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 22:36	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 22:36	SLS	7440-48-4	
Copper, Dissolved	0.005	mg/L	0.002	6020	06/07/12 22:36	SLS	7440-50-8	
Lead, Dissolved	0.006	mg/L	0.002	6020	06/07/12 22:36	SLS	7439-92-1	
Manganese, Dissolved	0.012	mg/L	0.010	6020	06/07/12 22:36	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	06/06/12 13:19	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 22:36	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:36	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	06/07/12 22:36	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:36	SLS	7440-28-0	
Vanadium, Dissolved	0.012	mg/L	0.002	6020	06/07/12 22:36	SLS	7440-62-2	
Zinc, Dissolved	0.013	mg/L	0.010	6020	06/07/12 22:36	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/08/12 02:21	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/08/12 02:21	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	208-96-8	
Acetophenone	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	98-86-2	
Anthracene	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	120-12-7	X
Atrazine	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	56-55-3	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.12 (continued)

Sample Tag: SB-A5.3-OV163_3-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(a)pyrene	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	8	8270C	06/07/12 18:53	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	7005-72-3	
Caprolactam	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	105-60-2	
Carbazole	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	108-60-1	
Chrysene	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	8	8270C	06/07/12 18:53	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/L	8	8270C	06/07/12 18:53	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	8	8270C	06/07/12 18:53	PL	117-81-7	X
Fluoranthene	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	206-44-0	
Fluorene	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	193-39-5	
Isophorone	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	86-30-6	
Naphthalene	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	87-86-5	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.12 (continued)

Sample Tag: SB-A5.3-OV163_3-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Phenanthrene	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	85-01-8	X
Phenol	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	108-95-2	
Pyrene	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	4	8270C	06/07/12 18:53	PL	88-06-2	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.13
Sample Tag: SB-A5.3-OV163_16-17
Collected Date/Time: 05/30/2012 13:19
Matrix: Soil
COC Reference: 67416

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 10:03	CCM		
Mercury Digestion	Completed			7471A	06/05/12 13:00	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	05/31/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/06/12 14:27	PER	7440-36-0	
Arsenic	2.72	mg/kg	0.10	6020	06/06/12 14:25	PER	7440-38-2	
Barium	19.3	mg/kg	1.0	6020	06/06/12 14:25	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/06/12 14:25	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/06/12 14:25	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/06/12 14:25	PER	7440-43-9	
Chromium	3.75	mg/kg	0.20	6020	06/06/12 14:25	PER	7440-47-3	
Cobalt	3.01	mg/kg	0.20	6020	06/06/12 14:25	PER	7440-48-4	
Copper	6.15	mg/kg	0.20	6020	06/06/12 14:25	PER	7440-50-8	
Lead	3.34	mg/kg	0.20	6020	06/06/12 14:25	PER	7439-92-1	
Manganese	177	mg/kg	0.20	6020	06/06/12 14:25	PER	7439-96-5	
Mercury	0.0064	mg/kg	0.0055	7471A	06/05/12 16:16	JRT	7439-97-6	
Nickel	8.44	mg/kg	0.20	6020	06/06/12 14:25	PER	7440-02-0	
Selenium	0.20	mg/kg	0.20	6020	06/06/12 14:25	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/06/12 14:25	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/06/12 14:25	PER	7440-28-0	
Vanadium	6.32	mg/kg	0.20	6020	06/06/12 14:25	PER	7440-62-2	
Zinc	14.7	mg/kg	1.0	6020	06/06/12 14:25	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 02:26	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	207-08-9	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.13 (continued)

Sample Tag: SB-A5.3-OV163_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/07/12 02:26	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 02:26	PL	84-66-2	
Dimethyl phthalate	240	ug/kg	40	8270C	06/07/12 02:26	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/07/12 02:26	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/07/12 02:26	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 02:26	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.13 (continued)

Sample Tag: SB-A5.3-OV163_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 02:26	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.14

Sample Tag: SB-A5.3-OW168_1-2

Collected Date/Time: 05/30/2012 13:38

Matrix: Soil

COC Reference: 67416

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 10:03	CCM		
BNA Extraction (Replicate 01)	Completed			3550B	06/07/12 23:24	EMR		
Mercury Digestion	Completed			7471A	06/05/12 13:00	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	05/31/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/06/12 14:29	PER	7440-36-0	
Arsenic	1.52	mg/kg	0.10	6020	06/06/12 14:27	PER	7440-38-2	
Barium	56.7	mg/kg	1.0	6020	06/06/12 14:27	PER	7440-39-3	
Beryllium	0.59	mg/kg	0.20	6020	06/06/12 14:27	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/06/12 14:27	PER	7440-42-8	
Cadmium	0.12	mg/kg	0.10	6020	06/06/12 14:27	PER	7440-43-9	
Chromium	13.4	mg/kg	0.20	6020	06/06/12 14:27	PER	7440-47-3	
Cobalt	8.61	mg/kg	0.20	6020	06/06/12 14:27	PER	7440-48-4	
Copper	10.6	mg/kg	0.20	6020	06/06/12 14:27	PER	7440-50-8	
Lead	9.16	mg/kg	0.20	6020	06/06/12 14:27	PER	7439-92-1	
Manganese	189	mg/kg	0.20	6020	06/06/12 14:27	PER	7439-96-5	
Mercury	0.0359	mg/kg	0.0056	7471A	06/05/12 16:30	JRT	7439-97-6	
Nickel	14.9	mg/kg	0.20	6020	06/06/12 14:27	PER	7440-02-0	
Selenium	0.23	mg/kg	0.20	6020	06/06/12 14:27	PER	7782-49-2	
Silver	0.37	mg/kg	0.10	6020	06/06/12 14:27	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/06/12 14:27	PER	7440-28-0	
Vanadium	17.0	mg/kg	0.20	6020	06/06/12 14:27	PER	7440-62-2	
Zinc	23.0	mg/kg	1.0	6020	06/06/12 14:27	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	98-86-2	X
Anthracene	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	120-12-7	X
Atrazine	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	800	8270C	06/07/12 08:52	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	100-52-7	X
Benzo(a)anthracene	400	ug/kg	400	8270C	06/07/12 08:52	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	205-99-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.14 (continued)

Sample Tag: SB-A5.3-OW168_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	105-60-2	X
Carbazole	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	108-60-1	X
Chrysene	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	800	8270C	06/07/12 08:52	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	800	8270C	06/07/12 08:52	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	800	8270C	06/07/12 08:52	PL	117-81-7	X
Fluoranthene	1,100	ug/kg	400	8270C	06/07/12 08:52	PL	206-44-0	X
Fluorene	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	193-39-5	X
Isophorone	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	800	8270C	06/07/12 08:52	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	800	8270C	06/07/12 08:52	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	87-86-5	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.14 (continued)

Sample Tag: SB-A5.3-OW168_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenanthrene	900	ug/kg	400	8270C	06/07/12 08:52	PL	85-01-8	X
Phenol	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	108-95-2	X
Pyrene	1,000	ug/kg	400	8270C	06/07/12 08:52	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	400	8270C	06/07/12 08:52	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.15
Sample Tag: SB-A5.3-OW168_5-6
Collected Date/Time: 05/30/2012 14:00
Matrix: Soil
COC Reference: 69061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 10:03	CCM		
Mercury Digestion	Completed			7471A	06/05/12 13:00	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:00	PER		

Inorganics

Total Solids	95	%	1	Std M 2540 B	05/31/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/06/12 14:31	PER	7440-36-0	
Arsenic	1.74	mg/kg	0.10	6020	06/06/12 14:29	PER	7440-38-2	
Barium	49.1	mg/kg	1.0	6020	06/06/12 14:29	PER	7440-39-3	
Beryllium	0.31	mg/kg	0.20	6020	06/06/12 14:29	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/06/12 14:29	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/06/12 14:29	PER	7440-43-9	
Chromium	10.0	mg/kg	0.20	6020	06/06/12 14:29	PER	7440-47-3	
Cobalt	6.09	mg/kg	0.20	6020	06/06/12 14:29	PER	7440-48-4	
Copper	8.78	mg/kg	0.20	6020	06/06/12 14:29	PER	7440-50-8	
Lead	4.31	mg/kg	0.20	6020	06/06/12 14:29	PER	7439-92-1	
Manganese	316	mg/kg	0.20	6020	06/06/12 14:29	PER	7439-96-5	
Mercury	0.0150	mg/kg	0.0052	7471A	06/05/12 16:32	JRT	7439-97-6	
Nickel	15.6	mg/kg	0.20	6020	06/06/12 14:29	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/06/12 14:29	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/06/12 14:29	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/06/12 14:29	PER	7440-28-0	
Vanadium	13.7	mg/kg	0.20	6020	06/06/12 14:29	PER	7440-62-2	
Zinc	20.2	mg/kg	1.0	6020	06/06/12 14:29	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 04:52	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	207-08-9	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.15 (continued)

Sample Tag: SB-A5.3-OW168_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/07/12 04:52	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 04:52	PL	84-66-2	
Dimethyl phthalate	200	ug/kg	40	8270C	06/07/12 04:52	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/07/12 04:52	PL	117-81-7	
Fluoranthene	40	ug/kg	40	8270C	06/07/12 04:52	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/07/12 04:52	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	86-30-6	
Naphthalene	70	ug/kg	40	8270C	06/07/12 04:52	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 04:52	PL	117-84-0	
Pentachlorophenol	140	ug/kg	40	8270C	06/07/12 04:52	PL	87-86-5	
Phenanthrene	120	ug/kg	40	8270C	06/07/12 04:52	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.15 (continued)

Sample Tag: SB-A5.3-OW168_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	40	ug/kg	40	8270C	06/07/12 04:52	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 04:52	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.16
Sample Tag: SB-A5.3-OW168_16-17
Collected Date/Time: 05/30/2012 14:15
Matrix: Soil
COC Reference: 69061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 10:03	CCM		
Mercury Digestion	Completed			7471A	06/05/12 13:00	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	05/31/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/06/12 14:33	PER	7440-36-0	
Arsenic	0.99	mg/kg	0.10	6020	06/06/12 14:31	PER	7440-38-2	
Barium	5.70	mg/kg	1.0	6020	06/06/12 14:31	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/06/12 14:31	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/06/12 14:31	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/06/12 14:31	PER	7440-43-9	
Chromium	1.91	mg/kg	0.20	6020	06/06/12 14:31	PER	7440-47-3	
Cobalt	3.36	mg/kg	0.20	6020	06/06/12 14:31	PER	7440-48-4	
Copper	6.15	mg/kg	0.20	6020	06/06/12 14:31	PER	7440-50-8	
Lead	1.84	mg/kg	0.20	6020	06/06/12 14:31	PER	7439-92-1	
Manganese	89.8	mg/kg	0.20	6020	06/06/12 14:31	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0055	7471A	06/05/12 16:34	JRT	7439-97-6	
Nickel	9.20	mg/kg	0.20	6020	06/06/12 14:31	PER	7440-02-0	
Selenium	0.21	mg/kg	0.20	6020	06/06/12 14:31	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/06/12 14:31	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/06/12 14:31	PER	7440-28-0	
Vanadium	4.09	mg/kg	0.20	6020	06/06/12 14:31	PER	7440-62-2	
Zinc	12.6	mg/kg	1.0	6020	06/06/12 14:31	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 05:27	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	207-08-9	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.16 (continued)

Sample Tag: SB-A5.3-OW168_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/07/12 05:27	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 05:27	PL	84-66-2	
Dimethyl phthalate	350	ug/kg	40	8270C	06/07/12 05:27	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/07/12 05:27	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/07/12 05:27	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 05:27	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.16 (continued)

Sample Tag: SB-A5.3-OW168_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 05:27	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.17
Sample Tag: SB-A5.3-DUP59
Collected Date/Time: 05/30/2012 00:01
Matrix: Soil
COC Reference: 69061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 10:03	CCM		
Mercury Digestion	Completed			7471A	06/05/12 13:00	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/31/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/06/12 14:35	PER	7440-36-0	
Arsenic	1.51	mg/kg	0.10	6020	06/06/12 14:33	PER	7440-38-2	
Barium	8.72	mg/kg	1.0	6020	06/06/12 14:33	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/06/12 14:33	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/06/12 14:33	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/06/12 14:33	PER	7440-43-9	
Chromium	2.83	mg/kg	0.20	6020	06/06/12 14:33	PER	7440-47-3	
Cobalt	2.64	mg/kg	0.20	6020	06/06/12 14:33	PER	7440-48-4	
Copper	4.43	mg/kg	0.20	6020	06/06/12 14:33	PER	7440-50-8	
Lead	2.82	mg/kg	0.20	6020	06/06/12 14:33	PER	7439-92-1	
Manganese	144	mg/kg	0.20	6020	06/06/12 14:33	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0058	7471A	06/05/12 16:37	JRT	7439-97-6	
Nickel	7.02	mg/kg	0.20	6020	06/06/12 14:33	PER	7440-02-0	
Selenium	0.25	mg/kg	0.20	6020	06/06/12 14:33	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/06/12 14:33	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/06/12 14:33	PER	7440-28-0	
Vanadium	7.04	mg/kg	0.20	6020	06/06/12 14:33	PER	7440-62-2	
Zinc	11.0	mg/kg	1.0	6020	06/06/12 14:33	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/07/12 06:01	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	207-08-9	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.17 (continued)

Sample Tag: SB-A5.3-DUP59

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/07/12 06:01	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/07/12 06:01	PL	84-66-2	
Dimethyl phthalate	190	ug/kg	40	8270C	06/07/12 06:01	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/07/12 06:01	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/07/12 06:01	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/07/12 06:01	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.17 (continued)

Sample Tag: SB-A5.3-DUP59

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 06:01	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.18
Sample Tag: SB-A5.3-OQ168_1-2
Collected Date/Time: 05/30/2012 14:59
Matrix: Soil
COC Reference: 69061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 10:03	CCM		
Mercury Digestion	Completed			7471A	06/05/12 13:00	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:00	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	05/31/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.22	6020	06/06/12 14:37	PER	7440-36-0	
Arsenic	1.20	mg/kg	0.10	6020	06/06/12 14:35	PER	7440-38-2	
Barium	54.2	mg/kg	1.0	6020	06/06/12 14:35	PER	7440-39-3	
Beryllium	0.41	mg/kg	0.20	6020	06/06/12 14:35	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/06/12 14:35	PER	7440-42-8	
Cadmium	0.14	mg/kg	0.10	6020	06/06/12 14:35	PER	7440-43-9	
Chromium	8.37	mg/kg	0.20	6020	06/06/12 14:35	PER	7440-47-3	
Cobalt	5.84	mg/kg	0.20	6020	06/06/12 14:35	PER	7440-48-4	
Copper	7.89	mg/kg	0.20	6020	06/06/12 14:35	PER	7440-50-8	
Lead	8.11	mg/kg	0.20	6020	06/06/12 14:35	PER	7439-92-1	
Manganese	248	mg/kg	0.20	6020	06/06/12 14:35	PER	7439-96-5	
Mercury	0.0366	mg/kg	0.006	7471A	06/05/12 16:39	JRT	7439-97-6	
Nickel	10.7	mg/kg	0.20	6020	06/06/12 14:35	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/06/12 14:35	PER	7782-49-2	
Silver	0.20	mg/kg	0.10	6020	06/06/12 14:35	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/06/12 14:35	PER	7440-28-0	
Vanadium	11.7	mg/kg	0.20	6020	06/06/12 14:35	PER	7440-62-2	
Zinc	19.3	mg/kg	1.0	6020	06/06/12 14:35	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/07/12 06:35	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	207-08-9	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.18 (continued)

Sample Tag: SB-A5.3-OQ168_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/07/12 06:35	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/07/12 06:35	PL	84-66-2	
Dimethyl phthalate	180	ug/kg	40	8270C	06/07/12 06:35	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/07/12 06:35	PL	117-81-7	
Fluoranthene	70	ug/kg	40	8270C	06/07/12 06:35	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/07/12 06:35	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/07/12 06:35	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	87-86-5	
Phenanthrene	70	ug/kg	40	8270C	06/07/12 06:35	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.18 (continued)

Sample Tag: SB-A5.3-OQ168_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	70	ug/kg	40	8270C	06/07/12 06:35	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 06:35	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.19
Sample Tag: SB-A5.3-OQ168_6-7
Collected Date/Time: 05/30/2012 15:05
Matrix: Soil
COC Reference: 69061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 10:03	CCM		
Mercury Digestion	Completed			7471A	06/05/12 13:00	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:30	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	05/31/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/06/12 15:29	PER	7440-36-0	
Arsenic	1.18	mg/kg	0.10	6020	06/06/12 15:29	PER	7440-38-2	
Barium	33.3	mg/kg	1.0	6020	06/06/12 15:29	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/06/12 15:29	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/06/12 15:29	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/06/12 15:29	PER	7440-43-9	
Chromium	6.85	mg/kg	0.21	6020	06/06/12 15:29	PER	7440-47-3	
Cobalt	3.51	mg/kg	0.21	6020	06/06/12 15:29	PER	7440-48-4	
Copper	5.68	mg/kg	0.21	6020	06/06/12 15:29	PER	7440-50-8	
Lead	3.91	mg/kg	0.21	6020	06/06/12 15:29	PER	7439-92-1	
Manganese	258	mg/kg	0.21	6020	06/06/12 15:29	PER	7439-96-5	
Mercury	0.0102	mg/kg	0.0059	7471A	06/05/12 16:50	JRT	7439-97-6	
Nickel	11.7	mg/kg	0.21	6020	06/06/12 15:29	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/06/12 15:29	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/06/12 15:29	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/06/12 15:29	PER	7440-28-0	
Vanadium	9.77	mg/kg	0.21	6020	06/06/12 15:29	PER	7440-62-2	
Zinc	13.9	mg/kg	1.0	6020	06/06/12 15:29	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/07/12 03:00	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	207-08-9	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.19 (continued)

Sample Tag: SB-A5.3-OQ168_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/07/12 03:00	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/07/12 03:00	PL	84-66-2	
Dimethyl phthalate	250	ug/kg	40	8270C	06/07/12 03:00	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/07/12 03:00	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/07/12 03:00	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/07/12 03:00	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.19 (continued)

Sample Tag: SB-A5.3-OQ168_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 03:00	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.20
Sample Tag: SB-A5.3-OQ168_6-7 MS
Collected Date/Time: 05/30/2012 15:05
Matrix: Soil
COC Reference: 69061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 10:03	CCM		
Mercury Digestion	Completed			7471A	06/05/12 13:00	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:30	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/31/12 15:00	WAR		
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Metals

Antimony	22.3	mg/kg	0.21	6020	06/06/12 15:31	PER	7440-36-0	
Arsenic	21.3	mg/kg	0.10	6020	06/06/12 15:31	PER	7440-38-2	
Barium	57.2	mg/kg	1.0	6020	06/06/12 15:31	PER	7440-39-3	
Beryllium	21.6	mg/kg	0.21	6020	06/06/12 15:31	PER	7440-41-7	
Boron	20.2	mg/kg	4.2	6020	06/06/12 15:31	PER	7440-42-8	
Cadmium	22.1	mg/kg	0.10	6020	06/06/12 15:31	PER	7440-43-9	
Chromium	31.2	mg/kg	0.21	6020	06/06/12 15:31	PER	7440-47-3	
Cobalt	25.4	mg/kg	0.21	6020	06/06/12 15:31	PER	7440-48-4	
Copper	25.8	mg/kg	0.21	6020	06/06/12 15:31	PER	7440-50-8	
Lead	23.7	mg/kg	0.21	6020	06/06/12 15:31	PER	7439-92-1	
Manganese	281	mg/kg	0.21	6020	06/06/12 15:31	PER	7439-96-5	
Mercury	0.1344	mg/kg	0.0058	7471A	06/05/12 16:52	JRT	7439-97-6	
Nickel	33.0	mg/kg	0.21	6020	06/06/12 15:31	PER	7440-02-0	
Selenium	12.4	mg/kg	0.21	6020	06/06/12 15:31	PER	7782-49-2	
Silver	20.9	mg/kg	0.10	6020	06/06/12 15:31	PER	7440-22-4	
Thallium	18.5	mg/kg	0.21	6020	06/06/12 15:31	PER	7440-28-0	
Vanadium	35.5	mg/kg	0.21	6020	06/06/12 15:31	PER	7440-62-2	
Zinc	34.3	mg/kg	1.0	6020	06/06/12 15:31	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	1,680	ug/kg	40	8270C	06/07/12 03:34	PL	83-32-9	1
Acenaphthylene	1,880	ug/kg	40	8270C	06/07/12 03:34	PL	208-96-8	1
Acetophenone	1,580	ug/kg	40	8270C	06/07/12 03:34	PL	98-86-2	1
Anthracene	1,690	ug/kg	40	8270C	06/07/12 03:34	PL	120-12-7	1
Atrazine	1,920	ug/kg	40	8270C	06/07/12 03:34	PL	1912-24-9	1
1,1'-Biphenyl	1,620	ug/kg	40	8270C	06/07/12 03:34	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,720	ug/kg	40	8270C	06/07/12 03:34	PL	101-55-3	1
di-n-Butyl phthalate	1,650	ug/kg	80	8270C	06/07/12 03:34	PL	84-74-2	1
Benzaldehyde	1,330	ug/kg	40	8270C	06/07/12 03:34	PL	100-52-7	1
Benzo(a)anthracene	1,800	ug/kg	40	8270C	06/07/12 03:34	PL	56-55-3	1
Benzo(a)pyrene	1,690	ug/kg	40	8270C	06/07/12 03:34	PL	50-32-8	1
Benzo(b)fluoranthene	1,890	ug/kg	40	8270C	06/07/12 03:34	PL	205-99-2	1
Benzo(ghi)perylene	1,240	ug/kg	40	8270C	06/07/12 03:34	PL	191-24-2	1

1-Sample spiked at 1.92 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.20 (continued)

Sample Tag: SB-A5.3-OQ168_6-7 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	1,830	ug/kg	40	8270C	06/07/12 03:34	PL	207-08-9	1
Butyl benzyl phthalate	1,770	ug/kg	40	8270C	06/07/12 03:34	PL	85-68-7	1
2-Chloronaphthalene	1,720	ug/kg	40	8270C	06/07/12 03:34	PL	91-58-7	1
2-Chlorophenol	1,510	ug/kg	40	8270C	06/07/12 03:34	PL	95-57-8	1
4-Chloro-3-methylphenol	1,690	ug/kg	40	8270C	06/07/12 03:34	PL	59-50-7	1
4-Chloroaniline	1,560	ug/kg	40	8270C	06/07/12 03:34	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,850	ug/kg	40	8270C	06/07/12 03:34	PL	7005-72-3	1
Caprolactam	1,760	ug/kg	40	8270C	06/07/12 03:34	PL	105-60-2	1
Carbazole	1,830	ug/kg	40	8270C	06/07/12 03:34	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,490	ug/kg	40	8270C	06/07/12 03:34	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,380	ug/kg	40	8270C	06/07/12 03:34	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,600	ug/kg	40	8270C	06/07/12 03:34	PL	108-60-1	1
Chrysene	1,810	ug/kg	40	8270C	06/07/12 03:34	PL	218-01-9	1
2,4-Dichlorophenol	1,660	ug/kg	40	8270C	06/07/12 03:34	PL	120-83-2	1
2,4-Dimethylphenol	1,420	ug/kg	40	8270C	06/07/12 03:34	PL	105-67-9	1
2,4-Dinitrophenol	890	ug/kg	40	8270C	06/07/12 03:34	PL	51-28-5	1
2,4-Dinitrotoluene	1,870	ug/kg	40	8270C	06/07/12 03:34	PL	121-14-2	1
2,6-Dinitrotoluene	1,880	ug/kg	40	8270C	06/07/12 03:34	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,630	ug/kg	40	8270C	06/07/12 03:34	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,480	ug/kg	40	8270C	06/07/12 03:34	PL	534-52-1	1
Dibenzo(ah)anthracene	1,400	ug/kg	80	8270C	06/07/12 03:34	PL	53-70-3	1
Dibenzofuran	1,710	ug/kg	40	8270C	06/07/12 03:34	PL	132-64-9	1
Diethyl phthalate	1,850	ug/kg	80	8270C	06/07/12 03:34	PL	84-66-2	1
Dimethyl phthalate	1,920	ug/kg	40	8270C	06/07/12 03:34	PL	131-11-3	1B
bis(2-Ethylhexyl)phthalate	1,800	ug/kg	80	8270C	06/07/12 03:34	PL	117-81-7	1
Fluoranthene	1,850	ug/kg	40	8270C	06/07/12 03:34	PL	206-44-0	1
Fluorene	1,660	ug/kg	40	8270C	06/07/12 03:34	PL	86-73-7	1
Hexachlorobenzene	1,700	ug/kg	40	8270C	06/07/12 03:34	PL	118-74-1	1
Hexachlorobutadiene	1,440	ug/kg	40	8270C	06/07/12 03:34	PL	87-68-3	1
Hexachlorocyclopentadiene	1,310	ug/kg	40	8270C	06/07/12 03:34	PL	77-47-4	1
Hexachloroethane	1,400	ug/kg	40	8270C	06/07/12 03:34	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,350	ug/kg	40	8270C	06/07/12 03:34	PL	193-39-5	1
Isophorone	1,590	ug/kg	40	8270C	06/07/12 03:34	PL	78-59-1	1
2-Methylnaphthalene	1,480	ug/kg	40	8270C	06/07/12 03:34	PL	91-57-6	1
2-Methylphenol	1,570	ug/kg	40	8270C	06/07/12 03:34	PL	95-48-7	1
3-, 4-Methylphenol	1,820	ug/kg	80	8270C	06/07/12 03:34	PL	3/4-Cresol	1
2-Nitroaniline	1,920	ug/kg	40	8270C	06/07/12 03:34	PL	88-74-4	1
2-Nitrophenol	1,600	ug/kg	40	8270C	06/07/12 03:34	PL	88-75-5	1
3-Nitroaniline	1,770	ug/kg	40	8270C	06/07/12 03:34	PL	99-09-2	1
4-Nitroaniline	1,940	ug/kg	40	8270C	06/07/12 03:34	PL	100-01-6	1
4-Nitrophenol	1,760	ug/kg	40	8270C	06/07/12 03:34	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,560	ug/kg	40	8270C	06/07/12 03:34	PL	621-64-7	1
N-Nitrosodiphenylamine	1,330	ug/kg	40	8270C	06/07/12 03:34	PL	86-30-6	1
Naphthalene	1,450	ug/kg	40	8270C	06/07/12 03:34	PL	91-20-3	1
Nitrobenzene	1,480	ug/kg	40	8270C	06/07/12 03:34	PL	98-95-3	1
di-n-Octyl phthalate	1,880	ug/kg	80	8270C	06/07/12 03:34	PL	117-84-0	1
Pentachlorophenol	1,430	ug/kg	40	8270C	06/07/12 03:34	PL	87-86-5	1

1-Sample spiked at 1.92 mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.20 (continued)

Sample Tag: SB-A5.3-OQ168_6-7 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenanthrene	1,720	ug/kg	40	8270C	06/07/12 03:34	PL	85-01-8	1
Phenol	1,570	ug/kg	40	8270C	06/07/12 03:34	PL	108-95-2	1
Pyrene	1,770	ug/kg	40	8270C	06/07/12 03:34	PL	129-00-0	1
2,4,5-Trichlorophenol	1,880	ug/kg	40	8270C	06/07/12 03:34	PL	95-95-4	1
2,4,6-Trichlorophenol	1,770	ug/kg	40	8270C	06/07/12 03:34	PL	88-06-2	1

1-Sample spiked at 1.92 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.21

Sample Tag: SB-A5.3-OQ168_6-7 MSD

Collected Date/Time: 05/30/2012 15:05

Matrix: Soil

COC Reference: 69061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 10:03	CCM		
Mercury Digestion	Completed			7471A	06/05/12 13:00	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:30	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/31/12 15:00	WAR		
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Metals

Antimony	22.0	mg/kg	0.21	6020	06/06/12 15:33	PER	7440-36-0	
Arsenic	21.5	mg/kg	0.10	6020	06/06/12 15:33	PER	7440-38-2	
Barium	57.6	mg/kg	1.0	6020	06/06/12 15:33	PER	7440-39-3	
Beryllium	21.5	mg/kg	0.21	6020	06/06/12 15:33	PER	7440-41-7	
Boron	20.1	mg/kg	4.2	6020	06/06/12 15:33	PER	7440-42-8	
Cadmium	21.8	mg/kg	0.10	6020	06/06/12 15:33	PER	7440-43-9	
Chromium	31.3	mg/kg	0.21	6020	06/06/12 15:33	PER	7440-47-3	
Cobalt	25.3	mg/kg	0.21	6020	06/06/12 15:33	PER	7440-48-4	
Copper	25.7	mg/kg	0.21	6020	06/06/12 15:33	PER	7440-50-8	
Lead	24.3	mg/kg	0.21	6020	06/06/12 15:33	PER	7439-92-1	
Manganese	278	mg/kg	0.21	6020	06/06/12 15:33	PER	7439-96-5	
Mercury	0.1317	mg/kg	0.0058	7471A	06/05/12 16:55	JRT	7439-97-6	
Nickel	32.7	mg/kg	0.21	6020	06/06/12 15:33	PER	7440-02-0	
Selenium	11.9	mg/kg	0.21	6020	06/06/12 15:33	PER	7782-49-2	
Silver	20.6	mg/kg	0.10	6020	06/06/12 15:33	PER	7440-22-4	
Thallium	18.5	mg/kg	0.21	6020	06/06/12 15:33	PER	7440-28-0	
Vanadium	36.2	mg/kg	0.21	6020	06/06/12 15:33	PER	7440-62-2	
Zinc	34.8	mg/kg	1.0	6020	06/06/12 15:33	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,800	ug/kg	40	8270C	06/07/12 04:09	PL	83-32-9	1
Acenaphthylene	2,020	ug/kg	40	8270C	06/07/12 04:09	PL	208-96-8	1
Acetophenone	1,720	ug/kg	40	8270C	06/07/12 04:09	PL	98-86-2	1
Anthracene	1,820	ug/kg	40	8270C	06/07/12 04:09	PL	120-12-7	1
Atrazine	2,060	ug/kg	40	8270C	06/07/12 04:09	PL	1912-24-9	1
1,1'-Biphenyl	1,770	ug/kg	40	8270C	06/07/12 04:09	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,860	ug/kg	40	8270C	06/07/12 04:09	PL	101-55-3	1
di-n-Butyl phthalate	1,760	ug/kg	80	8270C	06/07/12 04:09	PL	84-74-2	1
Benzaldehyde	1,470	ug/kg	40	8270C	06/07/12 04:09	PL	100-52-7	1
Benzo(a)anthracene	1,930	ug/kg	40	8270C	06/07/12 04:09	PL	56-55-3	1
Benzo(a)pyrene	1,810	ug/kg	40	8270C	06/07/12 04:09	PL	50-32-8	1
Benzo(b)fluoranthene	1,970	ug/kg	40	8270C	06/07/12 04:09	PL	205-99-2	1
Benzo(ghi)perylene	1,290	ug/kg	40	8270C	06/07/12 04:09	PL	191-24-2	1

1-Sample spiked at 1.92 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.21 (continued)

Sample Tag: SB-A5.3-OQ168_6-7 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	2,000	ug/kg	40	8270C	06/07/12 04:09	PL	207-08-9	1
Butyl benzyl phthalate	1,900	ug/kg	40	8270C	06/07/12 04:09	PL	85-68-7	1
2-Chloronaphthalene	1,870	ug/kg	40	8270C	06/07/12 04:09	PL	91-58-7	1
2-Chlorophenol	1,690	ug/kg	40	8270C	06/07/12 04:09	PL	95-57-8	1
4-Chloro-3-methylphenol	1,840	ug/kg	40	8270C	06/07/12 04:09	PL	59-50-7	1
4-Chloroaniline	1,690	ug/kg	40	8270C	06/07/12 04:09	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,970	ug/kg	40	8270C	06/07/12 04:09	PL	7005-72-3	1
Caprolactam	1,920	ug/kg	40	8270C	06/07/12 04:09	PL	105-60-2	1
Carbazole	1,950	ug/kg	40	8270C	06/07/12 04:09	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,620	ug/kg	40	8270C	06/07/12 04:09	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,510	ug/kg	40	8270C	06/07/12 04:09	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,760	ug/kg	40	8270C	06/07/12 04:09	PL	108-60-1	1
Chrysene	1,930	ug/kg	40	8270C	06/07/12 04:09	PL	218-01-9	1
2,4-Dichlorophenol	1,800	ug/kg	40	8270C	06/07/12 04:09	PL	120-83-2	1
2,4-Dimethylphenol	1,560	ug/kg	40	8270C	06/07/12 04:09	PL	105-67-9	1
2,4-Dinitrophenol	990	ug/kg	40	8270C	06/07/12 04:09	PL	51-28-5	1
2,4-Dinitrotoluene	2,020	ug/kg	40	8270C	06/07/12 04:09	PL	121-14-2	1
2,6-Dinitrotoluene	2,040	ug/kg	40	8270C	06/07/12 04:09	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,740	ug/kg	40	8270C	06/07/12 04:09	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,610	ug/kg	40	8270C	06/07/12 04:09	PL	534-52-1	1
Dibenzo(ah)anthracene	1,510	ug/kg	80	8270C	06/07/12 04:09	PL	53-70-3	1
Dibenzofuran	1,840	ug/kg	40	8270C	06/07/12 04:09	PL	132-64-9	1
Diethyl phthalate	1,980	ug/kg	80	8270C	06/07/12 04:09	PL	84-66-2	1
Dimethyl phthalate	2,050	ug/kg	40	8270C	06/07/12 04:09	PL	131-11-3	1B
bis(2-Ethylhexyl)phthalate	1,940	ug/kg	80	8270C	06/07/12 04:09	PL	117-81-7	1
Fluoranthene	1,980	ug/kg	40	8270C	06/07/12 04:09	PL	206-44-0	1
Fluorene	1,770	ug/kg	40	8270C	06/07/12 04:09	PL	86-73-7	1
Hexachlorobenzene	1,850	ug/kg	40	8270C	06/07/12 04:09	PL	118-74-1	1
Hexachlorobutadiene	1,570	ug/kg	40	8270C	06/07/12 04:09	PL	87-68-3	1
Hexachlorocyclopentadiene	1,490	ug/kg	40	8270C	06/07/12 04:09	PL	77-47-4	1
Hexachloroethane	1,520	ug/kg	40	8270C	06/07/12 04:09	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,440	ug/kg	40	8270C	06/07/12 04:09	PL	193-39-5	1
Isophorone	1,720	ug/kg	40	8270C	06/07/12 04:09	PL	78-59-1	1
2-Methylnaphthalene	1,630	ug/kg	40	8270C	06/07/12 04:09	PL	91-57-6	1
2-Methylphenol	1,710	ug/kg	40	8270C	06/07/12 04:09	PL	95-48-7	1
3-, 4-Methylphenol	1,990	ug/kg	80	8270C	06/07/12 04:09	PL	3/4-Cresol	1
2-Nitroaniline	2,070	ug/kg	40	8270C	06/07/12 04:09	PL	88-74-4	1
2-Nitrophenol	1,790	ug/kg	40	8270C	06/07/12 04:09	PL	88-75-5	1
3-Nitroaniline	1,900	ug/kg	40	8270C	06/07/12 04:09	PL	99-09-2	1
4-Nitroaniline	2,070	ug/kg	40	8270C	06/07/12 04:09	PL	100-01-6	1
4-Nitrophenol	1,880	ug/kg	40	8270C	06/07/12 04:09	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,720	ug/kg	40	8270C	06/07/12 04:09	PL	621-64-7	1
N-Nitrosodiphenylamine	1,430	ug/kg	40	8270C	06/07/12 04:09	PL	86-30-6	1
Naphthalene	1,580	ug/kg	40	8270C	06/07/12 04:09	PL	91-20-3	1
Nitrobenzene	1,630	ug/kg	40	8270C	06/07/12 04:09	PL	98-95-3	1
di-n-Octyl phthalate	2,030	ug/kg	80	8270C	06/07/12 04:09	PL	117-84-0	1
Pentachlorophenol	1,550	ug/kg	40	8270C	06/07/12 04:09	PL	87-86-5	1

1-Sample spiked at 1.92 mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.21 (continued)

Sample Tag: SB-A5.3-OQ168_6-7 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenanthrene	1,850	ug/kg	40	8270C	06/07/12 04:09	PL	85-01-8	1
Phenol	1,720	ug/kg	40	8270C	06/07/12 04:09	PL	108-95-2	1
Pyrene	1,880	ug/kg	40	8270C	06/07/12 04:09	PL	129-00-0	1
2,4,5-Trichlorophenol	2,030	ug/kg	40	8270C	06/07/12 04:09	PL	95-95-4	1
2,4,6-Trichlorophenol	1,930	ug/kg	40	8270C	06/07/12 04:09	PL	88-06-2	1

1-Sample spiked at 1.92 mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.22
Sample Tag: SB-A5.3-OQ168_6-10
Collected Date/Time: 05/30/2012 15:15
Matrix: Groundwater
COC Reference: 69061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.5	IR
2	40ml Glass	HCL	Yes	4.5	IR
1	125ml Plastic	HNO3	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	06/05/12 20:19	EMR		
Extraction, PCB	Completed			3510C	06/01/12 12:40	ADB		
Mercury Digestion	Completed			7471A	06/05/12 15:55	JRH		
Metal Digestion	Completed			3015A	06/07/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:40	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:40	SLS	7440-38-2	
Barium, Dissolved	0.029	mg/L	0.010	6020	06/07/12 22:40	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 22:40	SLS	7440-41-7	
Boron, Dissolved	0.38	mg/L	0.04	6020	06/07/12 22:40	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 22:40	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 22:40	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 22:40	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:40	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:40	SLS	7439-92-1	
Manganese, Dissolved	0.034	mg/L	0.010	6020	06/07/12 22:40	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	06/06/12 13:22	JRT	7439-97-6	
Nickel, Dissolved	0.011	mg/L	0.010	6020	06/07/12 22:40	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:40	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	06/07/12 22:40	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:40	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:40	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 22:40	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/08/12 02:50	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/08/12 02:50	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	50-32-8	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.22 (continued)

Sample Tag: SB-A5.3-OQ168_6-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	06/07/12 14:53	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	06/07/12 14:53	PL	84-66-2	
Dimethyl phthalate	3	ug/L	2	8270C	06/07/12 14:53	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	6	ug/L	2	8270C	06/07/12 14:53	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	108-95-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.22 (continued)

Sample Tag: SB-A5.3-OQ168_6-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Pyrene	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	06/07/12 14:53	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.23
Sample Tag: SB-A5.3-OQ175_1-2
Collected Date/Time: 05/30/2012 16:19
Matrix: Soil
COC Reference: 69061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 23:45	EMR		
Mercury Digestion	Completed			7471A	06/05/12 13:00	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:00	PER		

Inorganics

Total Solids	80	%	1	Std M 2540 B	05/31/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.22	6020	06/06/12 14:37	PER	7440-36-0	
Arsenic	1.93	mg/kg	0.11	6020	06/06/12 14:37	PER	7440-38-2	
Barium	78.5	mg/kg	1.1	6020	06/06/12 14:37	PER	7440-39-3	
Beryllium	0.48	mg/kg	0.22	6020	06/06/12 14:37	PER	7440-41-7	
Boron	Not detected	mg/kg	4.4	6020	06/06/12 14:37	PER	7440-42-8	
Cadmium	0.17	mg/kg	0.11	6020	06/06/12 14:37	PER	7440-43-9	
Chromium	12.2	mg/kg	0.22	6020	06/06/12 14:37	PER	7440-47-3	
Cobalt	12.5	mg/kg	0.22	6020	06/06/12 14:37	PER	7440-48-4	
Copper	8.74	mg/kg	0.22	6020	06/06/12 14:37	PER	7440-50-8	
Lead	9.83	mg/kg	0.22	6020	06/06/12 14:37	PER	7439-92-1	
Manganese	671	mg/kg	0.22	6020	06/06/12 14:37	PER	7439-96-5	
Mercury	0.0462	mg/kg	0.0062	7471A	06/05/12 16:41	JRT	7439-97-6	
Nickel	11.5	mg/kg	0.22	6020	06/06/12 14:37	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.22	6020	06/06/12 14:37	PER	7782-49-2	
Silver	1.04	mg/kg	0.11	6020	06/06/12 14:37	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.22	6020	06/06/12 14:37	PER	7440-28-0	
Vanadium	17.7	mg/kg	0.22	6020	06/06/12 14:37	PER	7440-62-2	
Zinc	23.4	mg/kg	1.1	6020	06/06/12 14:37	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	208-96-8	
Acetophenone	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	98-86-2	
Anthracene	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	120-12-7	
Atrazine	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	600	8270C	06/07/12 07:30	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	191-24-2	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.23 (continued)

Sample Tag: SB-A5.3-OQ175_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	105-60-2	
Carbazole	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	108-60-1	
Chrysene	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	600	8270C	06/07/12 07:30	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	600	8270C	06/07/12 07:30	PL	84-66-2	X
Dimethyl phthalate	400	ug/kg	300	8270C	06/07/12 07:30	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	600	8270C	06/07/12 07:30	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	206-44-0	
Fluorene	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	193-39-5	
Isophorone	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	600	8270C	06/07/12 07:30	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	86-30-6	
Naphthalene	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	600	8270C	06/07/12 07:30	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	87-86-5	

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.23 (continued)

Sample Tag: SB-A5.3-OQ175_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenanthrene	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	85-01-8	
Phenol	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	108-95-2	
Pyrene	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	300	8270C	06/07/12 07:30	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.24
Sample Tag: SB-A5.3-OQ168_16-17
Collected Date/Time: 05/30/2012 16:26
Matrix: Soil
COC Reference: 69061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 23:45	EMR		
Mercury Digestion	Completed			7471A	06/05/12 13:00	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	05/31/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/06/12 14:39	PER	7440-36-0	
Arsenic	1.91	mg/kg	0.10	6020	06/06/12 14:39	PER	7440-38-2	
Barium	36.2	mg/kg	1.0	6020	06/06/12 14:39	PER	7440-39-3	
Beryllium	0.23	mg/kg	0.21	6020	06/06/12 14:39	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	06/06/12 14:39	PER	7440-42-8	
Cadmium	0.12	mg/kg	0.10	6020	06/06/12 14:39	PER	7440-43-9	
Chromium	8.03	mg/kg	0.21	6020	06/06/12 14:39	PER	7440-47-3	
Cobalt	5.03	mg/kg	0.21	6020	06/06/12 14:39	PER	7440-48-4	
Copper	10.2	mg/kg	0.21	6020	06/06/12 14:39	PER	7440-50-8	
Lead	5.08	mg/kg	0.21	6020	06/06/12 14:39	PER	7439-92-1	
Manganese	300	mg/kg	0.21	6020	06/06/12 14:39	PER	7439-96-5	
Mercury	0.0088	mg/kg	0.0057	7471A	06/05/12 16:43	JRT	7439-97-6	
Nickel	12.7	mg/kg	0.21	6020	06/06/12 14:39	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/06/12 14:39	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/06/12 14:39	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/06/12 14:39	PER	7440-28-0	
Vanadium	12.8	mg/kg	0.21	6020	06/06/12 14:39	PER	7440-62-2	
Zinc	18.4	mg/kg	1.0	6020	06/06/12 14:39	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	98-86-2	X
Anthracene	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	120-12-7	X
Atrazine	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 08:29	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	191-24-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.24 (continued)

Sample Tag: SB-A5.3-OQ168_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	105-60-2	X
Carbazole	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	108-60-1	X
Chrysene	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	06/07/12 08:29	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 08:29	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 08:29	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	206-44-0	X
Fluorene	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	193-39-5	X
Isophorone	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	06/07/12 08:29	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 08:29	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	85-01-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.24 (continued)

Sample Tag: SB-A5.3-OQ168_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	108-95-2	X
Pyrene	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	800	8270C	06/07/12 08:29	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.25
Sample Tag: SB-A5.3-OQ175_6-7
Collected Date/Time: 05/30/2012 16:45
Matrix: Soil
COC Reference: 69061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 23:45	EMR		
Mercury Digestion	Completed			7471A	06/05/12 13:00	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	05/31/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/06/12 14:41	PER	7440-36-0	
Arsenic	1.60	mg/kg	0.10	6020	06/06/12 14:41	PER	7440-38-2	
Barium	28.2	mg/kg	1.0	6020	06/06/12 14:41	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/06/12 14:41	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/06/12 14:41	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/06/12 14:41	PER	7440-43-9	
Chromium	6.55	mg/kg	0.21	6020	06/06/12 14:41	PER	7440-47-3	
Cobalt	4.35	mg/kg	0.21	6020	06/06/12 14:41	PER	7440-48-4	
Copper	9.65	mg/kg	0.21	6020	06/06/12 14:41	PER	7440-50-8	
Lead	4.33	mg/kg	0.21	6020	06/06/12 14:41	PER	7439-92-1	
Manganese	245	mg/kg	0.21	6020	06/06/12 14:41	PER	7439-96-5	
Mercury	0.0102	mg/kg	0.0057	7471A	06/05/12 16:46	JRT	7439-97-6	
Nickel	10.8	mg/kg	0.21	6020	06/06/12 14:41	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/06/12 14:41	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/06/12 14:41	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/06/12 14:41	PER	7440-28-0	
Vanadium	11.0	mg/kg	0.21	6020	06/06/12 14:41	PER	7440-62-2	
Zinc	14.8	mg/kg	1.0	6020	06/06/12 14:41	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	98-86-2	X
Anthracene	1,400	ug/kg	800	8270C	06/07/12 08:00	PL	120-12-7	X
Atrazine	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 08:00	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	100-52-7	X
Benzo(a)anthracene	800	ug/kg	800	8270C	06/07/12 08:00	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	191-24-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.25 (continued)

Sample Tag: SB-A5.3-OQ175_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	105-60-2	X
Carbazole	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	108-60-1	X
Chrysene	900	ug/kg	800	8270C	06/07/12 08:00	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	06/07/12 08:00	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 08:00	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 08:00	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	206-44-0	X
Fluorene	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	193-39-5	X
Isophorone	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	06/07/12 08:00	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 08:00	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	87-86-5	X
Phenanthrene	1,400	ug/kg	800	8270C	06/07/12 08:00	PL	85-01-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.25 (continued)

Sample Tag: SB-A5.3-OQ175_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	108-95-2	X
Pyrene	800	ug/kg	800	8270C	06/07/12 08:00	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	800	8270C	06/07/12 08:00	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.26
Sample Tag: SB-A5.3-OQ175_16-17
Collected Date/Time: 05/30/2012 16:50
Matrix: Soil
COC Reference: 69061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/04/12 23:45	EMR		
Mercury Digestion	Completed			7471A	06/05/12 13:00	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:30	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	05/31/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/06/12 15:39	PER	7440-36-0	
Arsenic	1.98	mg/kg	0.10	6020	06/06/12 15:39	PER	7440-38-2	
Barium	27.2	mg/kg	1.0	6020	06/06/12 15:39	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/06/12 15:39	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/06/12 15:39	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/06/12 15:39	PER	7440-43-9	
Chromium	4.71	mg/kg	0.21	6020	06/06/12 15:39	PER	7440-47-3	
Cobalt	3.02	mg/kg	0.21	6020	06/06/12 15:39	PER	7440-48-4	
Copper	7.47	mg/kg	0.21	6020	06/06/12 15:39	PER	7440-50-8	
Lead	3.84	mg/kg	0.21	6020	06/06/12 15:39	PER	7439-92-1	
Manganese	217	mg/kg	0.21	6020	06/06/12 15:39	PER	7439-96-5	
Mercury	0.0083	mg/kg	0.0055	7471A	06/05/12 16:48	JRT	7439-97-6	
Nickel	9.67	mg/kg	0.21	6020	06/06/12 15:39	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/06/12 15:39	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/06/12 15:39	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/06/12 15:39	PER	7440-28-0	
Vanadium	7.44	mg/kg	0.21	6020	06/06/12 15:39	PER	7440-62-2	
Zinc	12.4	mg/kg	1.0	6020	06/06/12 15:39	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 00:39	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	207-08-9	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.26 (continued)

Sample Tag: SB-A5.3-OQ175_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/07/12 00:39	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 00:39	PL	84-66-2	
Dimethyl phthalate	230	ug/kg	40	8270C	06/07/12 00:39	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/07/12 00:39	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/07/12 00:39	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 00:39	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.26 (continued)

Sample Tag: SB-A5.3-OQ175_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 00:39	PL	88-06-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.27
Sample Tag: Trip Blank
Collected Date/Time: 05/30/2012 00:01
Matrix: Water
COC Reference: 69061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	06/05/12 23:15	JGH	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	06/07/12 21:09	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	06/07/12 21:09	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	06/07/12 21:09	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	06/07/12 21:09	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	06/07/12 21:09	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/07/12 21:09	WAT		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52683.27 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	06/07/12 21:09	WAT	96-12-8	



67416

INVOICE TO

CONTACT NAME		Dave Favero		☐ SAME	
COMPANY		RACER TRUST			
ADDRESS		2930 Ecorse Road			
CITY		Ypsilanti		STATE	Mi
				ZIP CODE	48198
PHONE NO.		E-MAIL ADDRESS			
313-486-9208		<u>d Favero@racertrust.org</u>			

[illegible]

RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE		TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE		TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES:	TEMP. ON ARRIVAL <u>9.5</u>	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS			

Rev. 1.15.12



C.O.C. PAGE # 2 OF 2

69061

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME		Dave Favero		☐ SAME	
COMPANY		RACER TRUST			
ADDRESS		2930 Ecorse Road			
CITY		Ypsilanti		STATE	MI
				ZIP CODE	48198
PHONE NO.		E-MAIL ADDRESS			
313-486-9208		dfavero@racertrust.org			

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

VOCs/ 1,4 Dioxane	SVOCs	PCBs	Metals (w/Hg)	Certifications ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES Project Locations ☐ Detroit ☐ New York ☒ Other <u>Lansing</u>
Special Instructions				

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER
	DATE	TIME										
5783.15	5/30/12	1400	SB-AS.3-OW168-5-6	S	1	X						
.16		1415	SB-AS.3-OW168-16-17	S	1	X						
.17			SB-AS.3-DUP59	S	1	X						
.18		1459	SB-AS.3-OQ168-1-2	S	1	X						
19/20/21		1505	SB-AS.3-OQ168-6-7	S	3	X						
.22	1515		SB-AS.3-OQ168-6-10	GW	5	X	X					
.23		1619	SB-AS.3-OQ175-1-2	S	1	X						
.24		1626	SB-AS.3-OQ168-16-17	S	1	X						
.25		1645	SB-AS.3-OQ175-6-7	S	1	X						
.26		1650	SB-AS.3-OQ175-16-17	S	1	X						
.27			TRIP BLANK	L	1		X					

RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>[Signature]</i>			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>[Signature]</i>			DATE 5-31-12	TIME 6:00
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL <u>4.5</u>	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



Analytical Laboratory Report

Report ID: S52702.01(01)
Generated on 06/14/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52702.01-S52702.24
Project: Lansing Plant #2 Project# B0064479.2012
Collected Date: 05/31/2012
Submitted Date/Time: 06/01/2012 09:30
Sampled by: Megan Meckley
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (24 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52702.01	SB-A5.3-OW175_1-2	Soil	05/31/2012 08:30
S52702.02	SB-A5.3-OW175_5-6	Soil	05/31/2012 08:55
S52702.03	SB-A5.3-OW175_16-17	Soil	05/31/2012 09:00
S52702.04	Trip Blank	Water	05/31/2012 00:01
S52702.05	SB-A5.3-PA159_1-2	Soil	05/31/2012 10:30
S52702.06	SB-A5.3-PA159_10-11	Soil	05/31/2012 10:59
S52702.07	SB-A5.3-PA159_5-6	Soil	05/31/2012 11:09
S52702.08	SB-A5.3-DUP66	Soil	05/31/2012 00:01
S52702.09	SB-A5.3-PA159_9-10	Soil	05/31/2012 11:56
S52702.10	SB-A5.3-OI175_1-2	Soil	05/31/2012 12:45
S52702.11	SB-A5.3-OI175_5-6	Soil	05/31/2012 13:05
S52702.12	SB-A5.3-OI175_15-16	Soil	05/31/2012 13:20
S52702.13	SB-A5.3-OC175_1-2	Soil	05/31/2012 13:40
S52702.14	SB-A5.3-OC175_5-9	Groundwater	05/31/2012 14:08
S52702.15	SB-A5.3-OC175_5-6	Soil	05/31/2012 15:15
S52702.16	SB-A5.3-OC175_16-17	Soil	05/31/2012 15:20
S52702.17	SB-A5.3-OC169_1-2	Soil	05/31/2012 15:30
S52702.18	SB-A5.3-OC169_6-7	Soil	05/31/2012 15:50
S52702.19	SB-A5.3-OC169_16-17	Soil	05/31/2012 16:00
S52702.20	SB-A5.3-OI169_1-2	Soil	05/31/2012 16:15
S52702.21	SB-A5.3-OI169_6-7	Soil	05/31/2012 16:40
S52702.22	SB-A5.3-OI169_16-17	Soil	05/31/2012 16:50
S52702.23	SB-A5.3-OI169_16-17 MS	Soil	05/31/2012 16:50
S52702.24	SB-A5.3-OI169_16-17 MSD	Soil	05/31/2012 16:50



Analytical Laboratory Report

Lab Sample ID: S52702.01
Sample Tag: SB-A5.3-OW175_1-2
Collected Date/Time: 05/31/2012 08:30
Matrix: Soil
COC Reference: 69060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/05/12 10:48	CCM		
Mercury Digestion	Completed			7471A	06/06/12 10:35	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:30	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	06/01/12 14:20	AMM		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/06/12 16:02	PER	7440-36-0	
Arsenic	1.34	mg/kg	0.10	6020	06/06/12 16:02	PER	7440-38-2	
Barium	36.3	mg/kg	1.0	6020	06/06/12 16:02	PER	7440-39-3	
Beryllium	0.25	mg/kg	0.20	6020	06/06/12 16:02	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/06/12 16:02	PER	7440-42-8	
Cadmium	0.19	mg/kg	0.10	6020	06/06/12 16:02	PER	7440-43-9	
Chromium	7.33	mg/kg	0.20	6020	06/06/12 16:02	PER	7440-47-3	
Cobalt	26.8	mg/kg	0.20	6020	06/06/12 16:02	PER	7440-48-4	
Copper	11.4	mg/kg	0.20	6020	06/06/12 16:02	PER	7440-50-8	
Lead	15.5	mg/kg	0.20	6020	06/06/12 16:02	PER	7439-92-1	
Manganese	302	mg/kg	0.20	6020	06/06/12 16:02	PER	7439-96-5	
Mercury	0.0194	mg/kg	0.0057	7471A	06/06/12 15:04	JRT	7439-97-6	
Nickel	13.9	mg/kg	0.20	6020	06/06/12 16:02	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/06/12 16:02	PER	7782-49-2	
Silver	2.99	mg/kg	0.10	6020	06/06/12 16:02	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/06/12 16:02	PER	7440-28-0	
Vanadium	11.6	mg/kg	0.20	6020	06/06/12 16:02	PER	7440-62-2	
Zinc	20.6	mg/kg	1.0	6020	06/06/12 16:02	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	98-86-2	X
Anthracene	1,000	ug/kg	1,000	8270C	06/07/12 20:16	PL	120-12-7	X
Atrazine	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 20:16	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	191-24-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52702.01 (continued)

Sample Tag: SB-A5.3-OW175_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	105-60-2	X
Carbazole	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	108-60-1	X
Chrysene	1,000	ug/kg	1,000	8270C	06/07/12 20:16	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	06/07/12 20:16	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 20:16	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 20:16	PL	117-81-7	X
Fluoranthene	4,000	ug/kg	1,000	8270C	06/07/12 20:16	PL	206-44-0	X
Fluorene	12,000	ug/kg	1,000	8270C	06/07/12 20:16	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	193-39-5	X
Isophorone	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	06/07/12 20:16	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 20:16	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	87-86-5	X
Phenanthrene	10,000	ug/kg	1,000	8270C	06/07/12 20:16	PL	85-01-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52702.01 (continued)

Sample Tag: SB-A5.3-OW175_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	108-95-2	X
Pyrene	4,000	ug/kg	1,000	8270C	06/07/12 20:16	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	1,000	8270C	06/07/12 20:16	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52702.02
Sample Tag: SB-A5.3-OW175_5-6
Collected Date/Time: 05/31/2012 08:55
Matrix: Soil
COC Reference: 69060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/05/12 10:48	CCM		
Mercury Digestion	Completed			7471A	06/06/12 10:35	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:30	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	06/01/12 14:20	AMM		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/06/12 16:12	PER	7440-36-0	
Arsenic	1.80	mg/kg	0.10	6020	06/06/12 16:12	PER	7440-38-2	
Barium	54.4	mg/kg	1.0	6020	06/06/12 16:12	PER	7440-39-3	
Beryllium	0.29	mg/kg	0.21	6020	06/06/12 16:12	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/06/12 16:12	PER	7440-42-8	
Cadmium	0.10	mg/kg	0.10	6020	06/06/12 16:12	PER	7440-43-9	
Chromium	9.02	mg/kg	0.21	6020	06/06/12 16:12	PER	7440-47-3	
Cobalt	6.10	mg/kg	0.21	6020	06/06/12 16:12	PER	7440-48-4	
Copper	9.01	mg/kg	0.21	6020	06/06/12 16:12	PER	7440-50-8	
Lead	6.30	mg/kg	0.21	6020	06/06/12 16:12	PER	7439-92-1	
Manganese	343	mg/kg	0.21	6020	06/06/12 16:12	PER	7439-96-5	
Mercury	0.0185	mg/kg	0.0056	7471A	06/06/12 15:06	JRT	7439-97-6	
Nickel	16.7	mg/kg	0.21	6020	06/06/12 16:12	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/06/12 16:12	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/06/12 16:12	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/06/12 16:12	PER	7440-28-0	
Vanadium	14.3	mg/kg	0.21	6020	06/06/12 16:12	PER	7440-62-2	
Zinc	17.9	mg/kg	1.0	6020	06/06/12 16:12	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	98-86-2	X
Anthracene	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	120-12-7	X
Atrazine	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 19:17	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	191-24-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52702.02 (continued)

Sample Tag: SB-A5.3-OW175_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	105-60-2	X
Carbazole	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	108-60-1	X
Chrysene	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	06/07/12 19:17	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 19:17	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 19:17	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	206-44-0	X
Fluorene	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	193-39-5	X
Isophorone	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	06/07/12 19:17	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 19:17	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	85-01-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52702.02 (continued)

Sample Tag: SB-A5.3-OW175_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	108-95-2	X
Pyrene	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	800	8270C	06/07/12 19:17	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52702.03
Sample Tag: SB-A5.3-OW175_16-17
Collected Date/Time: 05/31/2012 09:00
Matrix: Soil
COC Reference: 69060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/05/12 10:48	CCM		
Mercury Digestion	Completed			7471A	06/06/12 10:35	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:30	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	06/01/12 14:20	AMM		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/06/12 16:14	PER	7440-36-0	
Arsenic	1.84	mg/kg	0.10	6020	06/06/12 16:14	PER	7440-38-2	
Barium	19.1	mg/kg	1.0	6020	06/06/12 16:14	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/06/12 16:14	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/06/12 16:14	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	06/06/12 16:14	PER	7440-43-9	
Chromium	4.00	mg/kg	0.20	6020	06/06/12 16:14	PER	7440-47-3	
Cobalt	2.55	mg/kg	0.20	6020	06/06/12 16:14	PER	7440-48-4	
Copper	8.33	mg/kg	0.20	6020	06/06/12 16:14	PER	7440-50-8	
Lead	3.42	mg/kg	0.20	6020	06/06/12 16:14	PER	7439-92-1	
Manganese	197	mg/kg	0.20	6020	06/06/12 16:14	PER	7439-96-5	
Mercury	0.0094	mg/kg	0.0054	7471A	06/06/12 15:08	JRT	7439-97-6	
Nickel	9.34	mg/kg	0.20	6020	06/06/12 16:14	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/06/12 16:14	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/06/12 16:14	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/06/12 16:14	PER	7440-28-0	
Vanadium	7.04	mg/kg	0.20	6020	06/06/12 16:14	PER	7440-62-2	
Zinc	19.8	mg/kg	1.0	6020	06/06/12 16:14	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 14:23	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52702.03 (continued)

Sample Tag: SB-A5.3-OW175_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/07/12 14:23	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 14:23	PL	84-66-2	
Dimethyl phthalate	200	ug/kg	40	8270C	06/07/12 14:23	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/07/12 14:23	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/07/12 14:23	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 14:23	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52702.03 (continued)

Sample Tag: SB-A5.3-OW175_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 14:23	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52702.04

Sample Tag: Trip Blank

Collected Date/Time: 05/31/2012 00:01

Matrix: Water

COC Reference: 69060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	n/a	n/a	Yes	n/a	n/a

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Other / Misc.

No Analyses	Completed				06/01/12 17:00	PCS		
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Analytical Laboratory Report

Lab Sample ID: S52702.05
Sample Tag: SB-A5.3-PA159_1-2
Collected Date/Time: 05/31/2012 10:30
Matrix: Soil
COC Reference: 69060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/05/12 10:48	CCM		
Mercury Digestion	Completed			7471A	06/06/12 10:35	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:30	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	06/01/12 14:20	AMM		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/06/12 16:16	PER	7440-36-0	
Arsenic	0.86	mg/kg	0.10	6020	06/06/12 16:16	PER	7440-38-2	
Barium	66.0	mg/kg	1.0	6020	06/06/12 16:16	PER	7440-39-3	
Beryllium	0.40	mg/kg	0.20	6020	06/06/12 16:16	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/06/12 16:16	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/06/12 16:16	PER	7440-43-9	
Chromium	10.3	mg/kg	0.20	6020	06/06/12 16:16	PER	7440-47-3	
Cobalt	7.81	mg/kg	0.20	6020	06/06/12 16:16	PER	7440-48-4	
Copper	6.33	mg/kg	0.20	6020	06/06/12 16:16	PER	7440-50-8	
Lead	8.73	mg/kg	0.20	6020	06/06/12 16:16	PER	7439-92-1	
Manganese	148	mg/kg	0.20	6020	06/06/12 16:16	PER	7439-96-5	
Mercury	0.0212	mg/kg	0.0055	7471A	06/06/12 15:11	JRT	7439-97-6	
Nickel	9.13	mg/kg	0.20	6020	06/06/12 16:16	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/06/12 16:16	PER	7782-49-2	
Silver	0.70	mg/kg	0.10	6020	06/06/12 16:16	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/06/12 16:16	PER	7440-28-0	
Vanadium	9.95	mg/kg	0.20	6020	06/06/12 16:16	PER	7440-62-2	
Zinc	16.7	mg/kg	1.0	6020	06/06/12 16:16	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	208-96-8	
Acetophenone	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	98-86-2	
Anthracene	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	120-12-7	
Atrazine	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	100	8270C	06/07/12 17:49	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	100-52-7	
Benzo(a)anthracene	260	ug/kg	70	8270C	06/07/12 17:49	PL	56-55-3	
Benzo(a)pyrene	220	ug/kg	70	8270C	06/07/12 17:49	PL	50-32-8	
Benzo(b)fluoranthene	440	ug/kg	70	8270C	06/07/12 17:49	PL	205-99-2	p
Benzo(ghi)perylene	160	ug/kg	70	8270C	06/07/12 17:49	PL	191-24-2	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S52702.05 (continued)

Sample Tag: SB-A5.3-PA159_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	450	ug/kg	70	8270C	06/07/12 17:49	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	105-60-2	
Carbazole	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	108-60-1	
Chrysene	280	ug/kg	70	8270C	06/07/12 17:49	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	100	8270C	06/07/12 17:49	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	100	8270C	06/07/12 17:49	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	100	8270C	06/07/12 17:49	PL	117-81-7	
Fluoranthene	540	ug/kg	70	8270C	06/07/12 17:49	PL	206-44-0	
Fluorene	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	150	ug/kg	70	8270C	06/07/12 17:49	PL	193-39-5	
Isophorone	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	100	8270C	06/07/12 17:49	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	86-30-6	
Naphthalene	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	100	8270C	06/07/12 17:49	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	87-86-5	
Phenanthrene	310	ug/kg	70	8270C	06/07/12 17:49	PL	85-01-8	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S52702.05 (continued)

Sample Tag: SB-A5.3-PA159_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	108-95-2	
Pyrene	440	ug/kg	70	8270C	06/07/12 17:49	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	70	8270C	06/07/12 17:49	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52702.06
Sample Tag: SB-A5.3-PA159_10-11
Collected Date/Time: 05/31/2012 10:59
Matrix: Soil
COC Reference: 69060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/05/12 10:48	CCM		
Mercury Digestion	Completed			7471A	06/06/12 10:35	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:30	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	06/01/12 14:20	AMM		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/06/12 16:18	PER	7440-36-0	
Arsenic	0.57	mg/kg	0.10	6020	06/06/12 16:18	PER	7440-38-2	
Barium	35.5	mg/kg	1.0	6020	06/06/12 16:18	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/06/12 16:18	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/06/12 16:18	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/06/12 16:18	PER	7440-43-9	
Chromium	6.19	mg/kg	0.20	6020	06/06/12 16:18	PER	7440-47-3	
Cobalt	2.97	mg/kg	0.20	6020	06/06/12 16:18	PER	7440-48-4	
Copper	8.51	mg/kg	0.20	6020	06/06/12 16:18	PER	7440-50-8	
Lead	1.96	mg/kg	0.20	6020	06/06/12 16:18	PER	7439-92-1	
Manganese	147	mg/kg	0.20	6020	06/06/12 16:18	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0056	7471A	06/06/12 15:13	JRT	7439-97-6	
Nickel	8.35	mg/kg	0.20	6020	06/06/12 16:18	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/06/12 16:18	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/06/12 16:18	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/06/12 16:18	PER	7440-28-0	
Vanadium	7.40	mg/kg	0.20	6020	06/06/12 16:18	PER	7440-62-2	
Zinc	7.49	mg/kg	1.0	6020	06/06/12 16:18	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 14:53	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52702.06 (continued)

Sample Tag: SB-A5.3-PA159_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/07/12 14:53	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 14:53	PL	84-66-2	
Dimethyl phthalate	60	ug/kg	40	8270C	06/07/12 14:53	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/07/12 14:53	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/07/12 14:53	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 14:53	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52702.06 (continued)

Sample Tag: SB-A5.3-PA159_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 14:53	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52702.07
Sample Tag: SB-A5.3-PA159_5-6
Collected Date/Time: 05/31/2012 11:09
Matrix: Soil
COC Reference: 69060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/05/12 10:48	CCM		
Mercury Digestion	Completed			7471A	06/06/12 10:35	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:30	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	06/01/12 14:20	AMM		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/06/12 16:20	PER	7440-36-0	
Arsenic	2.12	mg/kg	0.10	6020	06/06/12 16:20	PER	7440-38-2	
Barium	60.9	mg/kg	1.0	6020	06/06/12 16:20	PER	7440-39-3	
Beryllium	0.25	mg/kg	0.21	6020	06/06/12 16:20	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/06/12 16:20	PER	7440-42-8	
Cadmium	0.10	mg/kg	0.10	6020	06/06/12 16:20	PER	7440-43-9	
Chromium	10.1	mg/kg	0.21	6020	06/06/12 16:20	PER	7440-47-3	
Cobalt	7.88	mg/kg	0.21	6020	06/06/12 16:20	PER	7440-48-4	
Copper	11.3	mg/kg	0.21	6020	06/06/12 16:20	PER	7440-50-8	
Lead	6.81	mg/kg	0.21	6020	06/06/12 16:20	PER	7439-92-1	
Manganese	343	mg/kg	0.21	6020	06/06/12 16:20	PER	7439-96-5	
Mercury	0.0182	mg/kg	0.0058	7471A	06/06/12 15:35	JRT	7439-97-6	
Nickel	14.2	mg/kg	0.21	6020	06/06/12 16:20	PER	7440-02-0	
Selenium	0.22	mg/kg	0.21	6020	06/06/12 16:20	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/06/12 16:20	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/06/12 16:20	PER	7440-28-0	
Vanadium	17.3	mg/kg	0.21	6020	06/06/12 16:20	PER	7440-62-2	
Zinc	19.8	mg/kg	1.0	6020	06/06/12 16:20	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	98-86-2	X
Anthracene	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	120-12-7	X
Atrazine	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	800	8270C	06/07/12 18:48	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	191-24-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52702.07 (continued)

Sample Tag: SB-A5.3-PA159_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	105-60-2	X
Carbazole	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	108-60-1	X
Chrysene	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	800	8270C	06/07/12 18:48	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	800	8270C	06/07/12 18:48	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	800	8270C	06/07/12 18:48	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	206-44-0	X
Fluorene	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	193-39-5	X
Isophorone	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	800	8270C	06/07/12 18:48	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	800	8270C	06/07/12 18:48	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	85-01-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52702.07 (continued)

Sample Tag: SB-A5.3-PA159_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	108-95-2	X
Pyrene	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	400	8270C	06/07/12 18:48	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52702.08
Sample Tag: SB-A5.3-DUP66
Collected Date/Time: 05/31/2012 00:01
Matrix: Soil
COC Reference: 69060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/05/12 10:48	CCM		
Mercury Digestion	Completed			7471A	06/06/12 10:35	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:30	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	06/01/12 14:20	AMM		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/06/12 16:22	PER	7440-36-0	
Arsenic	0.57	mg/kg	0.10	6020	06/06/12 16:22	PER	7440-38-2	
Barium	35.3	mg/kg	1.0	6020	06/06/12 16:22	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/06/12 16:22	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/06/12 16:22	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/06/12 16:22	PER	7440-43-9	
Chromium	5.75	mg/kg	0.20	6020	06/06/12 16:22	PER	7440-47-3	
Cobalt	2.69	mg/kg	0.20	6020	06/06/12 16:22	PER	7440-48-4	
Copper	7.31	mg/kg	0.20	6020	06/06/12 16:22	PER	7440-50-8	
Lead	1.84	mg/kg	0.20	6020	06/06/12 16:22	PER	7439-92-1	
Manganese	137	mg/kg	0.20	6020	06/06/12 16:22	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0057	7471A	06/06/12 15:37	JRT	7439-97-6	
Nickel	6.71	mg/kg	0.20	6020	06/06/12 16:22	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/06/12 16:22	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/06/12 16:22	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/06/12 16:22	PER	7440-28-0	
Vanadium	6.71	mg/kg	0.20	6020	06/06/12 16:22	PER	7440-62-2	
Zinc	7.01	mg/kg	1.0	6020	06/06/12 16:22	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 15:22	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52702.08 (continued)

Sample Tag: SB-A5.3-DUP66

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/07/12 15:22	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 15:22	PL	84-66-2	
Dimethyl phthalate	70	ug/kg	40	8270C	06/07/12 15:22	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/07/12 15:22	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/07/12 15:22	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 15:22	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52702.08 (continued)

Sample Tag: SB-A5.3-DUP66

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 15:22	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52702.09
Sample Tag: SB-A5.3-PA159_9-10
Collected Date/Time: 05/31/2012 11:56
Matrix: Soil
COC Reference: 69060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/05/12 10:48	CCM		
Mercury Digestion	Completed			7471A	06/06/12 10:35	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:30	PER		

Inorganics

Total Solids	81	%	1	Std M 2540 B	06/01/12 14:20	AMM		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/06/12 16:24	PER	7440-36-0	
Arsenic	0.87	mg/kg	0.10	6020	06/06/12 16:24	PER	7440-38-2	
Barium	28.8	mg/kg	1.0	6020	06/06/12 16:24	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/06/12 16:24	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/06/12 16:24	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/06/12 16:24	PER	7440-43-9	
Chromium	5.68	mg/kg	0.20	6020	06/06/12 16:24	PER	7440-47-3	
Cobalt	5.15	mg/kg	0.20	6020	06/06/12 16:24	PER	7440-48-4	
Copper	9.10	mg/kg	0.20	6020	06/06/12 16:24	PER	7440-50-8	
Lead	4.19	mg/kg	0.20	6020	06/06/12 16:24	PER	7439-92-1	
Manganese	255	mg/kg	0.20	6020	06/06/12 16:24	PER	7439-96-5	
Mercury	0.0075	mg/kg	0.0062	7471A	06/06/12 15:40	JRT	7439-97-6	
Nickel	10.4	mg/kg	0.20	6020	06/06/12 16:24	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/06/12 16:24	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/06/12 16:24	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/06/12 16:24	PER	7440-28-0	
Vanadium	10.4	mg/kg	0.20	6020	06/06/12 16:24	PER	7440-62-2	
Zinc	17.5	mg/kg	1.0	6020	06/06/12 16:24	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	98-86-2	X
Anthracene	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	120-12-7	X
Atrazine	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 19:46	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	191-24-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52702.09 (continued)

Sample Tag: SB-A5.3-PA159_9-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	105-60-2	X
Carbazole	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	108-60-1	X
Chrysene	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	06/07/12 19:46	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 19:46	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 19:46	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	206-44-0	X
Fluorene	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	193-39-5	X
Isophorone	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	06/07/12 19:46	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	06/07/12 19:46	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	85-01-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52702.09 (continued)

Sample Tag: SB-A5.3-PA159_9-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	108-95-2	X
Pyrene	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	800	8270C	06/07/12 19:46	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52702.10
Sample Tag: SB-A5.3-OI175_1-2
Collected Date/Time: 05/31/2012 12:45
Matrix: Soil
COC Reference: 69060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/05/12 10:48	CCM		
Mercury Digestion	Completed			7471A	06/06/12 10:35	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:30	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	06/01/12 14:20	AMM		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/06/12 16:26	PER	7440-36-0	
Arsenic	1.08	mg/kg	0.10	6020	06/06/12 16:26	PER	7440-38-2	
Barium	21.2	mg/kg	1.0	6020	06/06/12 16:26	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/06/12 16:26	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/06/12 16:26	PER	7440-42-8	
Cadmium	0.25	mg/kg	0.10	6020	06/06/12 16:26	PER	7440-43-9	
Chromium	3.00	mg/kg	0.20	6020	06/06/12 16:26	PER	7440-47-3	
Cobalt	3.55	mg/kg	0.20	6020	06/06/12 16:26	PER	7440-48-4	
Copper	6.27	mg/kg	0.20	6020	06/06/12 16:26	PER	7440-50-8	
Lead	31.4	mg/kg	0.20	6020	06/06/12 16:26	PER	7439-92-1	
Manganese	242	mg/kg	0.20	6020	06/06/12 16:26	PER	7439-96-5	
Mercury	0.0212	mg/kg	0.0054	7471A	06/06/12 15:42	JRT	7439-97-6	
Nickel	6.43	mg/kg	0.20	6020	06/06/12 16:26	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/06/12 16:26	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/06/12 16:26	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/06/12 16:26	PER	7440-28-0	
Vanadium	5.72	mg/kg	0.20	6020	06/06/12 16:26	PER	7440-62-2	
Zinc	37.2	mg/kg	1.0	6020	06/06/12 16:26	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	208-96-8	
Acetophenone	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	98-86-2	
Anthracene	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	120-12-7	
Atrazine	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	100	8270C	06/07/12 18:18	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	100-52-7	
Benzo(a)anthracene	120	ug/kg	70	8270C	06/07/12 18:18	PL	56-55-3	
Benzo(a)pyrene	80	ug/kg	70	8270C	06/07/12 18:18	PL	50-32-8	
Benzo(b)fluoranthene	240	ug/kg	70	8270C	06/07/12 18:18	PL	205-99-2	p
Benzo(ghi)perylene	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	191-24-2	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S52702.10 (continued)

Sample Tag: SB-A5.3-OI175_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	250	ug/kg	70	8270C	06/07/12 18:18	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	105-60-2	
Carbazole	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	108-60-1	
Chrysene	140	ug/kg	70	8270C	06/07/12 18:18	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	100	8270C	06/07/12 18:18	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	100	8270C	06/07/12 18:18	PL	84-66-2	
Dimethyl phthalate	170	ug/kg	70	8270C	06/07/12 18:18	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	100	8270C	06/07/12 18:18	PL	117-81-7	
Fluoranthene	200	ug/kg	70	8270C	06/07/12 18:18	PL	206-44-0	
Fluorene	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	193-39-5	
Isophorone	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	100	8270C	06/07/12 18:18	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	86-30-6	
Naphthalene	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	100	8270C	06/07/12 18:18	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	87-86-5	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52702.10 (continued)

Sample Tag: SB-A5.3-OI175_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenanthrene	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	85-01-8	
Phenol	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	108-95-2	
Pyrene	220	ug/kg	70	8270C	06/07/12 18:18	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	70	8270C	06/07/12 18:18	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52702.11
Sample Tag: SB-A5.3-OI175_5-6
Collected Date/Time: 05/31/2012 13:05
Matrix: Soil
COC Reference: 69060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/05/12 10:48	CCM		
Mercury Digestion	Completed			7471A	06/06/12 10:35	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:30	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	06/01/12 14:20	AMM		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/06/12 16:28	PER	7440-36-0	
Arsenic	1.05	mg/kg	0.10	6020	06/06/12 16:28	PER	7440-38-2	
Barium	21.8	mg/kg	1.0	6020	06/06/12 16:28	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/06/12 16:28	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/06/12 16:28	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/06/12 16:28	PER	7440-43-9	
Chromium	5.22	mg/kg	0.20	6020	06/06/12 16:28	PER	7440-47-3	
Cobalt	2.71	mg/kg	0.20	6020	06/06/12 16:28	PER	7440-48-4	
Copper	6.84	mg/kg	0.20	6020	06/06/12 16:28	PER	7440-50-8	
Lead	3.55	mg/kg	0.20	6020	06/06/12 16:28	PER	7439-92-1	
Manganese	177	mg/kg	0.20	6020	06/06/12 16:28	PER	7439-96-5	
Mercury	0.0077	mg/kg	0.0053	7471A	06/06/12 15:44	JRT	7439-97-6	
Nickel	7.48	mg/kg	0.20	6020	06/06/12 16:28	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/06/12 16:28	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/06/12 16:28	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/06/12 16:28	PER	7440-28-0	
Vanadium	8.41	mg/kg	0.20	6020	06/06/12 16:28	PER	7440-62-2	
Zinc	9.68	mg/kg	1.0	6020	06/06/12 16:28	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 15:52	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52702.11 (continued)

Sample Tag: SB-A5.3-OI175_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/07/12 15:52	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 15:52	PL	84-66-2	
Dimethyl phthalate	60	ug/kg	40	8270C	06/07/12 15:52	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/07/12 15:52	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/07/12 15:52	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 15:52	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52702.11 (continued)

Sample Tag: SB-A5.3-OI175_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 15:52	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52702.12
Sample Tag: SB-A5.3-OI175_15-16
Collected Date/Time: 05/31/2012 13:20
Matrix: Soil
COC Reference: 69059

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/05/12 10:48	CCM		
Mercury Digestion	Completed			7471A	06/06/12 10:35	JRH		
Metal Digestion	Completed			3050B	06/06/12 09:30	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	06/01/12 14:20	AMM		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/06/12 16:30	PER	7440-36-0	
Arsenic	2.00	mg/kg	0.10	6020	06/06/12 16:30	PER	7440-38-2	
Barium	24.8	mg/kg	1.0	6020	06/06/12 16:30	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/06/12 16:30	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/06/12 16:30	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/06/12 16:30	PER	7440-43-9	
Chromium	4.39	mg/kg	0.20	6020	06/06/12 16:30	PER	7440-47-3	
Cobalt	2.89	mg/kg	0.20	6020	06/06/12 16:30	PER	7440-48-4	
Copper	6.97	mg/kg	0.20	6020	06/06/12 16:30	PER	7440-50-8	
Lead	3.53	mg/kg	0.20	6020	06/06/12 16:30	PER	7439-92-1	
Manganese	236	mg/kg	0.20	6020	06/06/12 16:30	PER	7439-96-5	
Mercury	0.0070	mg/kg	0.0054	7471A	06/06/12 15:46	JRT	7439-97-6	
Nickel	9.19	mg/kg	0.20	6020	06/06/12 16:30	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/06/12 16:30	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/06/12 16:30	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/06/12 16:30	PER	7440-28-0	
Vanadium	7.33	mg/kg	0.20	6020	06/06/12 16:30	PER	7440-62-2	
Zinc	12.9	mg/kg	1.0	6020	06/06/12 16:30	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 16:21	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52702.12 (continued)

Sample Tag: SB-A5.3-OI175_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/07/12 16:21	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 16:21	PL	84-66-2	
Dimethyl phthalate	100	ug/kg	40	8270C	06/07/12 16:21	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/07/12 16:21	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/07/12 16:21	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 16:21	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52702.12 (continued)

Sample Tag: SB-A5.3-OI175_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 16:21	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52702.13
Sample Tag: SB-A5.3-OC175_1-2
Collected Date/Time: 05/31/2012 13:40
Matrix: Soil
COC Reference: 69059

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/05/12 10:48	CCM		
Mercury Digestion	Completed			7471A	06/06/12 10:35	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:00	PER		

Inorganics

Total Solids	81	%	1	Std M 2540 B	06/01/12 14:20	AMM		
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Metals

Antimony	Not detected	mg/kg	0.22	6020	06/07/12 14:52	PER	7440-36-0	
Arsenic	0.71	mg/kg	0.11	6020	06/07/12 14:52	PER	7440-38-2	
Barium	22.0	mg/kg	1.1	6020	06/07/12 14:52	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.22	6020	06/07/12 14:52	PER	7440-41-7	
Boron	Not detected	mg/kg	4.4	6020	06/07/12 14:52	PER	7440-42-8	
Cadmium	0.14	mg/kg	0.11	6020	06/07/12 14:52	PER	7440-43-9	
Chromium	2.58	mg/kg	0.22	6020	06/07/12 14:52	PER	7440-47-3	
Cobalt	12.9	mg/kg	0.22	6020	06/07/12 14:52	PER	7440-48-4	
Copper	3.81	mg/kg	0.22	6020	06/07/12 14:52	PER	7440-50-8	
Lead	4.89	mg/kg	0.22	6020	06/07/12 14:52	PER	7439-92-1	
Manganese	85.0	mg/kg	0.22	6020	06/07/12 14:52	PER	7439-96-5	
Mercury	0.0253	mg/kg	0.0061	7471A	06/06/12 15:49	JRT	7439-97-6	
Nickel	2.58	mg/kg	0.22	6020	06/07/12 14:52	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.22	6020	06/07/12 14:52	PER	7782-49-2	
Silver	1.16	mg/kg	0.11	6020	06/07/12 14:52	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.22	6020	06/07/12 14:52	PER	7440-28-0	
Vanadium	4.97	mg/kg	0.22	6020	06/07/12 14:52	PER	7440-62-2	
Zinc	8.48	mg/kg	1.1	6020	06/07/12 14:52	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	208-96-8	
Acetophenone	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	98-86-2	
Anthracene	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	120-12-7	
Atrazine	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	300	8270C	06/07/12 21:14	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	100-52-7	
Benzo(a)anthracene	200	ug/kg	200	8270C	06/07/12 21:14	PL	56-55-3	
Benzo(a)pyrene	200	ug/kg	200	8270C	06/07/12 21:14	PL	50-32-8	
Benzo(b)fluoranthene	500	ug/kg	200	8270C	06/07/12 21:14	PL	205-99-2	p
Benzo(ghi)perylene	200	ug/kg	200	8270C	06/07/12 21:14	PL	191-24-2	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S52702.13 (continued)

Sample Tag: SB-A5.3-OC175_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	500	ug/kg	200	8270C	06/07/12 21:14	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	105-60-2	
Carbazole	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	108-60-1	
Chrysene	300	ug/kg	200	8270C	06/07/12 21:14	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	8270C	06/07/12 21:14	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	300	8270C	06/07/12 21:14	PL	84-66-2	
Dimethyl phthalate	400	ug/kg	200	8270C	06/07/12 21:14	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	300	8270C	06/07/12 21:14	PL	117-81-7	
Fluoranthene	500	ug/kg	200	8270C	06/07/12 21:14	PL	206-44-0	
Fluorene	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	193-39-5	
Isophorone	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	300	8270C	06/07/12 21:14	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	86-30-6	
Naphthalene	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	300	8270C	06/07/12 21:14	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	87-86-5	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52702.13 (continued)

Sample Tag: SB-A5.3-OC175_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenanthrene	200	ug/kg	200	8270C	06/07/12 21:14	PL	85-01-8	
Phenol	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	108-95-2	
Pyrene	400	ug/kg	200	8270C	06/07/12 21:14	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	200	8270C	06/07/12 21:14	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52702.14
Sample Tag: SB-A5.3-OC175_5-9
Collected Date/Time: 05/31/2012 14:08
Matrix: Groundwater
COC Reference: 69059

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.0	IR
2	40ml Glass	HCL	Yes	4.0	IR
1	125ml Plastic	HNO3	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	06/05/12 20:19	EMR		
Extraction, PCB	Completed			3510C	06/01/12 12:40	ADB		
Mercury Digestion	Completed			7471A	06/05/12 15:55	JRH		
Metal Digestion	Completed			3015A	06/07/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:52	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:52	SLS	7440-38-2	
Barium, Dissolved	0.049	mg/L	0.010	6020	06/07/12 22:52	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 22:52	SLS	7440-41-7	
Boron, Dissolved	0.16	mg/L	0.04	6020	06/07/12 22:52	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 22:52	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 22:52	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 22:52	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:52	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:52	SLS	7439-92-1	
Manganese, Dissolved	0.060	mg/L	0.010	6020	06/07/12 22:52	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	06/06/12 13:28	JRT	7439-97-6	
Nickel, Dissolved	0.011	mg/L	0.010	6020	06/07/12 22:52	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:52	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	06/07/12 22:52	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:52	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 22:52	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 22:52	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/08/12 03:49	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/08/12 03:49	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	50-32-8	



Analytical Laboratory Report

Lab Sample ID: S52702.14 (continued)

Sample Tag: SB-A5.3-OC175_5-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	06/07/12 16:02	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	06/07/12 16:02	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	06/07/12 16:02	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	06/07/12 16:02	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	108-95-2	



Analytical Laboratory Report

Lab Sample ID: S52702.14 (continued)

Sample Tag: SB-A5.3-OC175_5-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Pyrene	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	06/07/12 16:02	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	13	ug/L	5	8260B - SIM	06/13/12 17:03	WAT	123-91-1	



Analytical Laboratory Report

Lab Sample ID: S52702.15
Sample Tag: SB-A5.3-OC175_5-6
Collected Date/Time: 05/31/2012 15:15
Matrix: Soil
COC Reference: 69059

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/05/12 10:48	CCM		
Mercury Digestion	Completed			7471A	06/06/12 10:35	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	06/01/12 14:20	AMM		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/07/12 14:58	PER	7440-36-0	
Arsenic	1.07	mg/kg	0.10	6020	06/07/12 14:58	PER	7440-38-2	
Barium	15.8	mg/kg	1.0	6020	06/07/12 14:58	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/07/12 14:58	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/07/12 14:58	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/07/12 14:58	PER	7440-43-9	
Chromium	3.49	mg/kg	0.20	6020	06/07/12 14:58	PER	7440-47-3	
Cobalt	1.34	mg/kg	0.20	6020	06/07/12 14:58	PER	7440-48-4	
Copper	3.75	mg/kg	0.20	6020	06/07/12 14:58	PER	7440-50-8	
Lead	2.65	mg/kg	0.20	6020	06/07/12 14:58	PER	7439-92-1	
Manganese	128	mg/kg	0.20	6020	06/07/12 14:58	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0058	7471A	06/06/12 15:51	JRT	7439-97-6	
Nickel	6.47	mg/kg	0.20	6020	06/07/12 14:58	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/07/12 14:58	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/07/12 14:58	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/07/12 14:58	PER	7440-28-0	
Vanadium	5.94	mg/kg	0.20	6020	06/07/12 14:58	PER	7440-62-2	
Zinc	7.48	mg/kg	1.0	6020	06/07/12 14:58	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/07/12 16:50	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52702.15 (continued)

Sample Tag: SB-A5.3-OC175_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/07/12 16:50	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/07/12 16:50	PL	84-66-2	
Dimethyl phthalate	80	ug/kg	40	8270C	06/07/12 16:50	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/07/12 16:50	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/07/12 16:50	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/07/12 16:50	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52702.15 (continued)

Sample Tag: SB-A5.3-OC175_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 16:50	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52702.16
Sample Tag: SB-A5.3-OC175_16-17
Collected Date/Time: 05/31/2012 15:20
Matrix: Soil
COC Reference: 69059

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/05/12 16:08	CCM		
Mercury Digestion	Completed			7471A	06/06/12 10:35	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	06/01/12 14:20	AMM		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/07/12 15:00	PER	7440-36-0	
Arsenic	2.20	mg/kg	0.10	6020	06/07/12 15:00	PER	7440-38-2	
Barium	26.8	mg/kg	1.0	6020	06/07/12 15:00	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/07/12 15:00	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/07/12 15:00	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/07/12 15:00	PER	7440-43-9	
Chromium	4.93	mg/kg	0.20	6020	06/07/12 15:00	PER	7440-47-3	
Cobalt	3.25	mg/kg	0.20	6020	06/07/12 15:00	PER	7440-48-4	
Copper	9.30	mg/kg	0.20	6020	06/07/12 15:00	PER	7440-50-8	
Lead	4.07	mg/kg	0.20	6020	06/07/12 15:00	PER	7439-92-1	
Manganese	221	mg/kg	0.20	6020	06/07/12 15:00	PER	7439-96-5	
Mercury	0.0065	mg/kg	0.0056	7471A	06/06/12 15:53	JRT	7439-97-6	
Nickel	9.85	mg/kg	0.20	6020	06/07/12 15:00	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/07/12 15:00	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/07/12 15:00	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/07/12 15:00	PER	7440-28-0	
Vanadium	7.49	mg/kg	0.20	6020	06/07/12 15:00	PER	7440-62-2	
Zinc	14.2	mg/kg	1.0	6020	06/07/12 15:00	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 13:09	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52702.16 (continued)

Sample Tag: SB-A5.3-OC175_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/07/12 13:09	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 13:09	PL	84-66-2	
Dimethyl phthalate	50	ug/kg	40	8270C	06/07/12 13:09	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/07/12 13:09	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/07/12 13:09	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 13:09	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52702.16 (continued)

Sample Tag: SB-A5.3-OC175_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 13:09	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52702.17
Sample Tag: SB-A5.3-OC169_1-2
Collected Date/Time: 05/31/2012 15:30
Matrix: Soil
COC Reference: 69059

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/05/12 16:08	CCM		
Mercury Digestion	Completed			7471A	06/06/12 10:35	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	06/01/12 14:20	AMM		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/07/12 15:02	PER	7440-36-0	
Arsenic	1.09	mg/kg	0.10	6020	06/07/12 15:02	PER	7440-38-2	
Barium	34.0	mg/kg	1.0	6020	06/07/12 15:02	PER	7440-39-3	
Beryllium	0.35	mg/kg	0.20	6020	06/07/12 15:02	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/07/12 15:02	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	06/07/12 15:02	PER	7440-43-9	
Chromium	5.09	mg/kg	0.20	6020	06/07/12 15:02	PER	7440-47-3	
Cobalt	4.07	mg/kg	0.20	6020	06/07/12 15:02	PER	7440-48-4	
Copper	5.75	mg/kg	0.20	6020	06/07/12 15:02	PER	7440-50-8	
Lead	8.32	mg/kg	0.20	6020	06/07/12 15:02	PER	7439-92-1	
Manganese	152	mg/kg	0.20	6020	06/07/12 15:02	PER	7439-96-5	
Mercury	0.0271	mg/kg	0.0056	7471A	06/06/12 15:55	JRT	7439-97-6	
Nickel	6.31	mg/kg	0.20	6020	06/07/12 15:02	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/07/12 15:02	PER	7782-49-2	
Silver	0.19	mg/kg	0.10	6020	06/07/12 15:02	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/07/12 15:02	PER	7440-28-0	
Vanadium	8.25	mg/kg	0.20	6020	06/07/12 15:02	PER	7440-62-2	
Zinc	12.5	mg/kg	1.0	6020	06/07/12 15:02	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	101-55-3	
di-n-Butyl phthalate	100	ug/kg	80	8270C	06/07/12 20:29	PL	84-74-2	B
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	100-52-7	
Benzo(a)anthracene	210	ug/kg	40	8270C	06/07/12 20:29	PL	56-55-3	
Benzo(a)pyrene	220	ug/kg	40	8270C	06/07/12 20:29	PL	50-32-8	I
Benzo(b)fluoranthene	620	ug/kg	40	8270C	06/07/12 20:29	PL	205-99-2	Ip

B-Compound also found in associated method blank

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S52702.17 (continued)

Sample Tag: SB-A5.3-OC169_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	60	ug/kg	40	8270C	06/07/12 20:29	PL	191-24-2	I
Benzo(k)fluoranthene	640	ug/kg	40	8270C	06/07/12 20:29	PL	207-08-9	Ip
Butyl benzyl phthalate	100	ug/kg	40	8270C	06/07/12 20:29	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	105-60-2	
Carbazole	40	ug/kg	40	8270C	06/07/12 20:29	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	108-60-1	
Chrysene	320	ug/kg	40	8270C	06/07/12 20:29	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/07/12 20:29	PL	53-70-3	I
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/07/12 20:29	PL	84-66-2	
Dimethyl phthalate	80	ug/kg	40	8270C	06/07/12 20:29	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/07/12 20:29	PL	117-81-7	
Fluoranthene	670	ug/kg	40	8270C	06/07/12 20:29	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	70	ug/kg	40	8270C	06/07/12 20:29	PL	193-39-5	I
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/07/12 20:29	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	98-95-3	

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52702.17 (continued)

Sample Tag: SB-A5.3-OC169_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/07/12 20:29	PL	117-84-0	I
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	87-86-5	
Phenanthrene	310	ug/kg	40	8270C	06/07/12 20:29	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	108-95-2	
Pyrene	550	ug/kg	40	8270C	06/07/12 20:29	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 20:29	PL	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	101-55-3	
di-n-Butyl phthalate	80	ug/kg	80	8270C	06/08/12 19:47	JGH	84-74-2	B
Benzaldehyde	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	100-52-7	
Benzo(a)anthracene	170	ug/kg	40	8270C	06/08/12 19:47	JGH	56-55-3	
Benzo(a)pyrene	200	ug/kg	40	8270C	06/08/12 19:47	JGH	50-32-8	I
Benzo(b)fluoranthene	290	ug/kg	40	8270C	06/08/12 19:47	JGH	205-99-2	I
Benzo(ghi)perylene	120	ug/kg	40	8270C	06/08/12 19:47	JGH	191-24-2	I
Benzo(k)fluoranthene	210	ug/kg	40	8270C	06/08/12 19:47	JGH	207-08-9	I
Butyl benzyl phthalate	100	ug/kg	40	8270C	06/08/12 19:47	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	108-60-1	
Chrysene	250	ug/kg	40	8270C	06/08/12 19:47	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/08/12 19:47	JGH	53-70-3	I
Dibenzofuran	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 19:47	JGH	84-66-2	
Dimethyl phthalate	60	ug/kg	40	8270C	06/08/12 19:47	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/08/12 19:47	JGH	117-81-7	

I-Matrix interference with internal standard

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52702.17 (continued)

Sample Tag: SB-A5.3-OC169_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
Fluoranthene	470	ug/kg	40	8270C	06/08/12 19:47	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	120	ug/kg	40	8270C	06/08/12 19:47	JGH	193-39-5	I
Isophorone	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/08/12 19:47	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 19:47	JGH	117-84-0	I
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	87-86-5	
Phenanthrene	250	ug/kg	40	8270C	06/08/12 19:47	JGH	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	108-95-2	
Pyrene	550	ug/kg	40	8270C	06/08/12 19:47	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 19:47	JGH	88-06-2	

I-Matrix interference with internal standard



Analytical Laboratory Report

Lab Sample ID: S52702.18
Sample Tag: SB-A5.3-OC169_6-7
Collected Date/Time: 05/31/2012 15:50
Matrix: Soil
COC Reference: 69059

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/05/12 16:08	CCM		
Mercury Digestion	Completed			7471A	06/06/12 13:10	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:00	PER		

Inorganics

Total Solids	82	%	1	Std M 2540 B	06/01/12 14:20	AMM		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/07/12 15:04	PER	7440-36-0	
Arsenic	1.21	mg/kg	0.10	6020	06/07/12 15:04	PER	7440-38-2	
Barium	98.8	mg/kg	1.0	6020	06/07/12 15:04	PER	7440-39-3	
Beryllium	0.55	mg/kg	0.21	6020	06/07/12 15:04	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/07/12 15:04	PER	7440-42-8	
Cadmium	0.94	mg/kg	0.10	6020	06/07/12 15:04	PER	7440-43-9	
Chromium	12.7	mg/kg	0.21	6020	06/07/12 15:04	PER	7440-47-3	
Cobalt	7.59	mg/kg	0.21	6020	06/07/12 15:04	PER	7440-48-4	
Copper	14.6	mg/kg	0.21	6020	06/07/12 15:04	PER	7440-50-8	
Lead	7.19	mg/kg	0.21	6020	06/07/12 15:04	PER	7439-92-1	
Manganese	759	mg/kg	0.21	6020	06/07/12 15:04	PER	7439-96-5	
Mercury	0.0203	mg/kg	0.006	7471A	06/06/12 16:18	JRT	7439-97-6	
Nickel	20.9	mg/kg	0.21	6020	06/07/12 15:04	PER	7440-02-0	
Selenium	0.26	mg/kg	0.21	6020	06/07/12 15:04	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/07/12 15:04	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/07/12 15:04	PER	7440-28-0	
Vanadium	15.9	mg/kg	0.21	6020	06/07/12 15:04	PER	7440-62-2	
Zinc	26.5	mg/kg	1.0	6020	06/07/12 15:04	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/07/12 13:43	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52702.18 (continued)

Sample Tag: SB-A5.3-OC169_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/07/12 13:43	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/07/12 13:43	PL	84-66-2	
Dimethyl phthalate	50	ug/kg	40	8270C	06/07/12 13:43	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/07/12 13:43	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/07/12 13:43	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/07/12 13:43	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52702.18 (continued)

Sample Tag: SB-A5.3-OC169_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 13:43	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52702.19
Sample Tag: SB-A5.3-OC169_16-17
Collected Date/Time: 05/31/2012 16:00
Matrix: Soil
COC Reference: 69059

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/05/12 16:08	CCM		
Mercury Digestion	Completed			7471A	06/06/12 13:10	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	06/01/12 14:20	AMM		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/07/12 15:06	PER	7440-36-0	
Arsenic	1.44	mg/kg	0.10	6020	06/07/12 15:06	PER	7440-38-2	
Barium	25.2	mg/kg	1.0	6020	06/07/12 15:06	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/07/12 15:06	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/07/12 15:06	PER	7440-42-8	
Cadmium	0.10	mg/kg	0.10	6020	06/07/12 15:06	PER	7440-43-9	
Chromium	4.82	mg/kg	0.20	6020	06/07/12 15:06	PER	7440-47-3	
Cobalt	3.06	mg/kg	0.20	6020	06/07/12 15:06	PER	7440-48-4	
Copper	9.02	mg/kg	0.20	6020	06/07/12 15:06	PER	7440-50-8	
Lead	3.84	mg/kg	0.20	6020	06/07/12 15:06	PER	7439-92-1	
Manganese	234	mg/kg	0.20	6020	06/07/12 15:06	PER	7439-96-5	
Mercury	0.0112	mg/kg	0.0057	7471A	06/06/12 16:20	JRT	7439-97-6	
Nickel	9.63	mg/kg	0.20	6020	06/07/12 15:06	PER	7440-02-0	
Selenium	0.26	mg/kg	0.20	6020	06/07/12 15:06	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/07/12 15:06	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/07/12 15:06	PER	7440-28-0	
Vanadium	7.43	mg/kg	0.20	6020	06/07/12 15:06	PER	7440-62-2	
Zinc	15.3	mg/kg	1.0	6020	06/07/12 15:06	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 14:17	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52702.19 (continued)

Sample Tag: SB-A5.3-OC169_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/07/12 14:17	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 14:17	PL	84-66-2	
Dimethyl phthalate	50	ug/kg	40	8270C	06/07/12 14:17	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/07/12 14:17	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/07/12 14:17	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 14:17	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52702.19 (continued)

Sample Tag: SB-A5.3-OC169_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 14:17	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52702.20
Sample Tag: SB-A5.3-OI169_1-2
Collected Date/Time: 05/31/2012 16:15
Matrix: Soil
COC Reference: 69059

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/05/12 16:08	CCM		
Mercury Digestion	Completed			7471A	06/06/12 13:10	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	06/01/12 14:39	AMM		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/07/12 15:08	PER	7440-36-0	
Arsenic	0.61	mg/kg	0.10	6020	06/07/12 15:08	PER	7440-38-2	
Barium	67.5	mg/kg	1.0	6020	06/07/12 15:08	PER	7440-39-3	
Beryllium	0.49	mg/kg	0.21	6020	06/07/12 15:08	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/07/12 15:08	PER	7440-42-8	
Cadmium	0.14	mg/kg	0.10	6020	06/07/12 15:08	PER	7440-43-9	
Chromium	7.97	mg/kg	0.21	6020	06/07/12 15:08	PER	7440-47-3	
Cobalt	5.76	mg/kg	0.21	6020	06/07/12 15:08	PER	7440-48-4	
Copper	10.9	mg/kg	0.21	6020	06/07/12 15:08	PER	7440-50-8	
Lead	9.45	mg/kg	0.21	6020	06/07/12 15:08	PER	7439-92-1	
Manganese	189	mg/kg	0.21	6020	06/07/12 15:08	PER	7439-96-5	
Mercury	0.0299	mg/kg	0.0057	7471A	06/06/12 16:23	JRT	7439-97-6	
Nickel	10.2	mg/kg	0.21	6020	06/07/12 15:08	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/07/12 15:08	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/07/12 15:08	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/07/12 15:08	PER	7440-28-0	
Vanadium	8.07	mg/kg	0.21	6020	06/07/12 15:08	PER	7440-62-2	
Zinc	31.4	mg/kg	1.0	6020	06/07/12 15:08	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/07/12 19:22	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	100-52-7	
Benzo(a)anthracene	110	ug/kg	40	8270C	06/07/12 19:22	PL	56-55-3	
Benzo(a)pyrene	110	ug/kg	40	8270C	06/07/12 19:22	PL	50-32-8	
Benzo(b)fluoranthene	270	ug/kg	40	8270C	06/07/12 19:22	PL	205-99-2	p
Benzo(ghi)perylene	40	ug/kg	40	8270C	06/07/12 19:22	PL	191-24-2	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S52702.20 (continued)

Sample Tag: SB-A5.3-OI169_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	270	ug/kg	40	8270C	06/07/12 19:22	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	108-60-1	
Chrysene	130	ug/kg	40	8270C	06/07/12 19:22	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/07/12 19:22	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/07/12 19:22	PL	84-66-2	
Dimethyl phthalate	140	ug/kg	40	8270C	06/07/12 19:22	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/07/12 19:22	PL	117-81-7	
Fluoranthene	220	ug/kg	40	8270C	06/07/12 19:22	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	50	ug/kg	40	8270C	06/07/12 19:22	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/07/12 19:22	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/07/12 19:22	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	87-86-5	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52702.20 (continued)

Sample Tag: SB-A5.3-OI169_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenanthrene	90	ug/kg	40	8270C	06/07/12 19:22	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	108-95-2	
Pyrene	180	ug/kg	40	8270C	06/07/12 19:22	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 19:22	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52702.21
Sample Tag: SB-A5.3-OI169_6-7
Collected Date/Time: 05/31/2012 16:40
Matrix: Soil
COC Reference: 69059

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/05/12 16:08	CCM		
Mercury Digestion	Completed			7471A	06/06/12 13:10	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	06/01/12 14:39	AMM		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/07/12 15:10	PER	7440-36-0	
Arsenic	1.01	mg/kg	0.10	6020	06/07/12 15:10	PER	7440-38-2	
Barium	42.1	mg/kg	1.0	6020	06/07/12 15:10	PER	7440-39-3	
Beryllium	0.26	mg/kg	0.20	6020	06/07/12 15:10	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/07/12 15:10	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	06/07/12 15:10	PER	7440-43-9	
Chromium	7.36	mg/kg	0.20	6020	06/07/12 15:10	PER	7440-47-3	
Cobalt	4.08	mg/kg	0.20	6020	06/07/12 15:10	PER	7440-48-4	
Copper	7.08	mg/kg	0.20	6020	06/07/12 15:10	PER	7440-50-8	
Lead	4.13	mg/kg	0.20	6020	06/07/12 15:10	PER	7439-92-1	
Manganese	198	mg/kg	0.20	6020	06/07/12 15:10	PER	7439-96-5	
Mercury	0.0120	mg/kg	0.0056	7471A	06/06/12 16:25	JRT	7439-97-6	
Nickel	10.9	mg/kg	0.20	6020	06/07/12 15:10	PER	7440-02-0	
Selenium	0.24	mg/kg	0.20	6020	06/07/12 15:10	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/07/12 15:10	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/07/12 15:10	PER	7440-28-0	
Vanadium	10.1	mg/kg	0.20	6020	06/07/12 15:10	PER	7440-62-2	
Zinc	15.9	mg/kg	1.0	6020	06/07/12 15:10	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 14:52	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52702.21 (continued)

Sample Tag: SB-A5.3-OI169_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/07/12 14:52	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 14:52	PL	84-66-2	
Dimethyl phthalate	40	ug/kg	40	8270C	06/07/12 14:52	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/07/12 14:52	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/07/12 14:52	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 14:52	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52702.21 (continued)

Sample Tag: SB-A5.3-OI169_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 14:52	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52702.22
Sample Tag: SB-A5.3-OI169_16-17
Collected Date/Time: 05/31/2012 16:50
Matrix: Soil
COC Reference: 69059

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/05/12 16:08	CCM		
Mercury Digestion	Completed			7471A	06/06/12 13:10	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	06/01/12 14:39	AMM		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/07/12 15:24	PER	7440-36-0	
Arsenic	2.17	mg/kg	0.10	6020	06/07/12 15:24	PER	7440-38-2	
Barium	23.4	mg/kg	1.0	6020	06/07/12 15:24	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/07/12 15:24	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/07/12 15:24	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/07/12 15:24	PER	7440-43-9	
Chromium	4.89	mg/kg	0.20	6020	06/07/12 15:24	PER	7440-47-3	
Cobalt	3.08	mg/kg	0.20	6020	06/07/12 15:24	PER	7440-48-4	
Copper	7.66	mg/kg	0.20	6020	06/07/12 15:24	PER	7440-50-8	
Lead	3.75	mg/kg	0.20	6020	06/07/12 15:24	PER	7439-92-1	
Manganese	220	mg/kg	0.20	6020	06/07/12 15:24	PER	7439-96-5	
Mercury	0.0083	mg/kg	0.0055	7471A	06/06/12 16:27	JRT	7439-97-6	
Nickel	9.45	mg/kg	0.20	6020	06/07/12 15:24	PER	7440-02-0	
Selenium	0.28	mg/kg	0.20	6020	06/07/12 15:24	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/07/12 15:24	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/07/12 15:24	PER	7440-28-0	
Vanadium	7.32	mg/kg	0.20	6020	06/07/12 15:24	PER	7440-62-2	
Zinc	14.2	mg/kg	1.0	6020	06/07/12 15:24	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 15:25	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52702.22 (continued)

Sample Tag: SB-A5.3-OI169_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/07/12 15:25	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 15:25	PL	84-66-2	
Dimethyl phthalate	40	ug/kg	40	8270C	06/07/12 15:25	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/07/12 15:25	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/07/12 15:25	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/07/12 15:25	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52702.22 (continued)

Sample Tag: SB-A5.3-OI169_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/07/12 15:25	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52702.23
Sample Tag: SB-A5.3-OI169_16-17 MS
Collected Date/Time: 05/31/2012 16:50
Matrix: Soil
COC Reference: 69059

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/05/12 16:08	CCM		
Mercury Digestion	Completed			7471A	06/06/12 13:10	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	06/01/12 14:39	AMM		
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Metals

Antimony	21.1	mg/kg	0.21	6020	06/07/12 15:25	PER	7440-36-0	
Arsenic	24.6	mg/kg	0.10	6020	06/07/12 15:25	PER	7440-38-2	
Barium	48.1	mg/kg	1.0	6020	06/07/12 15:25	PER	7440-39-3	
Beryllium	23.2	mg/kg	0.21	6020	06/07/12 15:25	PER	7440-41-7	
Boron	20.7	mg/kg	4.2	6020	06/07/12 15:25	PER	7440-42-8	
Cadmium	21.0	mg/kg	0.10	6020	06/07/12 15:25	PER	7440-43-9	
Chromium	27.1	mg/kg	0.21	6020	06/07/12 15:25	PER	7440-47-3	
Cobalt	23.2	mg/kg	0.21	6020	06/07/12 15:25	PER	7440-48-4	
Copper	26.9	mg/kg	0.21	6020	06/07/12 15:25	PER	7440-50-8	
Lead	23.4	mg/kg	0.21	6020	06/07/12 15:25	PER	7439-92-1	
Manganese	239	mg/kg	0.21	6020	06/07/12 15:25	PER	7439-96-5	
Mercury	0.1300	mg/kg	0.0055	7471A	06/06/12 16:29	JRT	7439-97-6	
Nickel	28.7	mg/kg	0.21	6020	06/07/12 15:25	PER	7440-02-0	
Selenium	21.2	mg/kg	0.21	6020	06/07/12 15:25	PER	7782-49-2	
Silver	20.2	mg/kg	0.10	6020	06/07/12 15:25	PER	7440-22-4	
Thallium	18.5	mg/kg	0.21	6020	06/07/12 15:25	PER	7440-28-0	
Vanadium	31.2	mg/kg	0.21	6020	06/07/12 15:25	PER	7440-62-2	
Zinc	32.6	mg/kg	1.0	6020	06/07/12 15:25	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	1,680	ug/kg	40	8270C	06/07/12 15:59	PL	83-32-9	1
Acenaphthylene	1,900	ug/kg	40	8270C	06/07/12 15:59	PL	208-96-8	1
Acetophenone	1,660	ug/kg	40	8270C	06/07/12 15:59	PL	98-86-2	1
Anthracene	1,670	ug/kg	40	8270C	06/07/12 15:59	PL	120-12-7	1
Atrazine	2,020	ug/kg	40	8270C	06/07/12 15:59	PL	1912-24-9	1
1,1'-Biphenyl	1,660	ug/kg	40	8270C	06/07/12 15:59	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,750	ug/kg	40	8270C	06/07/12 15:59	PL	101-55-3	1
di-n-Butyl phthalate	1,710	ug/kg	70	8270C	06/07/12 15:59	PL	84-74-2	1
Benzaldehyde	1,330	ug/kg	40	8270C	06/07/12 15:59	PL	100-52-7	1
Benzo(a)anthracene	1,820	ug/kg	40	8270C	06/07/12 15:59	PL	56-55-3	1
Benzo(a)pyrene	1,730	ug/kg	40	8270C	06/07/12 15:59	PL	50-32-8	1
Benzo(b)fluoranthene	1,950	ug/kg	40	8270C	06/07/12 15:59	PL	205-99-2	1
Benzo(ghi)perylene	1,250	ug/kg	40	8270C	06/07/12 15:59	PL	191-24-2	1

1-Sample spiked at 1.83 mg/kg



Analytical Laboratory Report

Lab Sample ID: S52702.23 (continued)

Sample Tag: SB-A5.3-OI169_16-17 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	1,860	ug/kg	40	8270C	06/07/12 15:59	PL	207-08-9	1
Butyl benzyl phthalate	1,850	ug/kg	40	8270C	06/07/12 15:59	PL	85-68-7	1
2-Chloronaphthalene	1,750	ug/kg	40	8270C	06/07/12 15:59	PL	91-58-7	1
2-Chlorophenol	1,600	ug/kg	40	8270C	06/07/12 15:59	PL	95-57-8	1
4-Chloro-3-methylphenol	1,770	ug/kg	40	8270C	06/07/12 15:59	PL	59-50-7	1
4-Chloroaniline	600	ug/kg	40	8270C	06/07/12 15:59	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,780	ug/kg	40	8270C	06/07/12 15:59	PL	7005-72-3	1
Caprolactam	1,850	ug/kg	40	8270C	06/07/12 15:59	PL	105-60-2	1
Carbazole	1,840	ug/kg	40	8270C	06/07/12 15:59	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,570	ug/kg	40	8270C	06/07/12 15:59	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,450	ug/kg	40	8270C	06/07/12 15:59	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,690	ug/kg	40	8270C	06/07/12 15:59	PL	108-60-1	1
Chrysene	1,840	ug/kg	40	8270C	06/07/12 15:59	PL	218-01-9	1
2,4-Dichlorophenol	1,730	ug/kg	40	8270C	06/07/12 15:59	PL	120-83-2	1
2,4-Dimethylphenol	1,720	ug/kg	40	8270C	06/07/12 15:59	PL	105-67-9	1
2,4-Dinitrophenol	730	ug/kg	40	8270C	06/07/12 15:59	PL	51-28-5	1
2,4-Dinitrotoluene	1,910	ug/kg	40	8270C	06/07/12 15:59	PL	121-14-2	1
2,6-Dinitrotoluene	1,940	ug/kg	40	8270C	06/07/12 15:59	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,320	ug/kg	40	8270C	06/07/12 15:59	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,450	ug/kg	40	8270C	06/07/12 15:59	PL	534-52-1	1
Dibenzo(ah)anthracene	1,420	ug/kg	70	8270C	06/07/12 15:59	PL	53-70-3	1
Dibenzofuran	1,730	ug/kg	40	8270C	06/07/12 15:59	PL	132-64-9	1
Diethyl phthalate	1,910	ug/kg	70	8270C	06/07/12 15:59	PL	84-66-2	1
Dimethyl phthalate	1,920	ug/kg	40	8270C	06/07/12 15:59	PL	131-11-3	1B
bis(2-Ethylhexyl)phthalate	1,880	ug/kg	70	8270C	06/07/12 15:59	PL	117-81-7	1
Fluoranthene	1,860	ug/kg	40	8270C	06/07/12 15:59	PL	206-44-0	1
Fluorene	1,690	ug/kg	40	8270C	06/07/12 15:59	PL	86-73-7	1
Hexachlorobenzene	1,710	ug/kg	40	8270C	06/07/12 15:59	PL	118-74-1	1
Hexachlorobutadiene	1,460	ug/kg	40	8270C	06/07/12 15:59	PL	87-68-3	1
Hexachlorocyclopentadiene	1,220	ug/kg	40	8270C	06/07/12 15:59	PL	77-47-4	1
Hexachloroethane	1,390	ug/kg	40	8270C	06/07/12 15:59	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,370	ug/kg	40	8270C	06/07/12 15:59	PL	193-39-5	1
Isophorone	1,670	ug/kg	40	8270C	06/07/12 15:59	PL	78-59-1	1
2-Methylnaphthalene	1,530	ug/kg	40	8270C	06/07/12 15:59	PL	91-57-6	1
2-Methylphenol	1,670	ug/kg	40	8270C	06/07/12 15:59	PL	95-48-7	1
3-, 4-Methylphenol	1,930	ug/kg	70	8270C	06/07/12 15:59	PL	3/4-Cresol	1
2-Nitroaniline	1,950	ug/kg	40	8270C	06/07/12 15:59	PL	88-74-4	1
2-Nitrophenol	1,680	ug/kg	40	8270C	06/07/12 15:59	PL	88-75-5	1
3-Nitroaniline	1,510	ug/kg	40	8270C	06/07/12 15:59	PL	99-09-2	1
4-Nitroaniline	1,740	ug/kg	40	8270C	06/07/12 15:59	PL	100-01-6	1
4-Nitrophenol	1,620	ug/kg	40	8270C	06/07/12 15:59	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,650	ug/kg	40	8270C	06/07/12 15:59	PL	621-64-7	1
N-Nitrosodiphenylamine	1,360	ug/kg	40	8270C	06/07/12 15:59	PL	86-30-6	1
Naphthalene	1,490	ug/kg	40	8270C	06/07/12 15:59	PL	91-20-3	1
Nitrobenzene	1,540	ug/kg	40	8270C	06/07/12 15:59	PL	98-95-3	1
di-n-Octyl phthalate	1,960	ug/kg	70	8270C	06/07/12 15:59	PL	117-84-0	1
Pentachlorophenol	1,260	ug/kg	40	8270C	06/07/12 15:59	PL	87-86-5	1

1-Sample spiked at 1.83 mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52702.23 (continued)

Sample Tag: SB-A5.3-OI169_16-17 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenanthrene	1,720	ug/kg	40	8270C	06/07/12 15:59	PL	85-01-8	1
Phenol	1,640	ug/kg	40	8270C	06/07/12 15:59	PL	108-95-2	1
Pyrene	1,810	ug/kg	40	8270C	06/07/12 15:59	PL	129-00-0	1
2,4,5-Trichlorophenol	1,880	ug/kg	40	8270C	06/07/12 15:59	PL	95-95-4	1
2,4,6-Trichlorophenol	1,820	ug/kg	40	8270C	06/07/12 15:59	PL	88-06-2	1

1-Sample spiked at 1.83 mg/kg



Analytical Laboratory Report

Lab Sample ID: S52702.24
Sample Tag: SB-A5.3-OI169_16-17 MSD
Collected Date/Time: 05/31/2012 16:50
Matrix: Soil
COC Reference: 69059

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/05/12 16:08	CCM		
Mercury Digestion	Completed			7471A	06/06/12 13:10	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	06/01/12 14:39	AMM		
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Metals

Antimony	21.1	mg/kg	0.20	6020	06/07/12 15:27	PER	7440-36-0	
Arsenic	24.4	mg/kg	0.10	6020	06/07/12 15:27	PER	7440-38-2	
Barium	47.4	mg/kg	1.0	6020	06/07/12 15:27	PER	7440-39-3	
Beryllium	22.8	mg/kg	0.20	6020	06/07/12 15:27	PER	7440-41-7	
Boron	21.3	mg/kg	4.1	6020	06/07/12 15:27	PER	7440-42-8	
Cadmium	20.7	mg/kg	0.10	6020	06/07/12 15:27	PER	7440-43-9	
Chromium	27.1	mg/kg	0.20	6020	06/07/12 15:27	PER	7440-47-3	
Cobalt	23.1	mg/kg	0.20	6020	06/07/12 15:27	PER	7440-48-4	
Copper	26.4	mg/kg	0.20	6020	06/07/12 15:27	PER	7440-50-8	
Lead	23.3	mg/kg	0.20	6020	06/07/12 15:27	PER	7439-92-1	
Manganese	240	mg/kg	0.20	6020	06/07/12 15:27	PER	7439-96-5	
Mercury	0.1293	mg/kg	0.0055	7471A	06/06/12 16:32	JRT	7439-97-6	
Nickel	28.5	mg/kg	0.20	6020	06/07/12 15:27	PER	7440-02-0	
Selenium	21.2	mg/kg	0.20	6020	06/07/12 15:27	PER	7782-49-2	
Silver	20.0	mg/kg	0.10	6020	06/07/12 15:27	PER	7440-22-4	
Thallium	18.4	mg/kg	0.20	6020	06/07/12 15:27	PER	7440-28-0	
Vanadium	31.1	mg/kg	0.20	6020	06/07/12 15:27	PER	7440-62-2	
Zinc	32.3	mg/kg	1.0	6020	06/07/12 15:27	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	1,400	ug/kg	40	8270C	06/07/12 16:33	PL	83-32-9	1
Acenaphthylene	1,590	ug/kg	40	8270C	06/07/12 16:33	PL	208-96-8	1
Acetophenone	1,380	ug/kg	40	8270C	06/07/12 16:33	PL	98-86-2	1
Anthracene	1,370	ug/kg	40	8270C	06/07/12 16:33	PL	120-12-7	1
Atrazine	1,680	ug/kg	40	8270C	06/07/12 16:33	PL	1912-24-9	1
1,1'-Biphenyl	1,370	ug/kg	40	8270C	06/07/12 16:33	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,460	ug/kg	40	8270C	06/07/12 16:33	PL	101-55-3	1
di-n-Butyl phthalate	1,430	ug/kg	70	8270C	06/07/12 16:33	PL	84-74-2	1
Benzaldehyde	1,120	ug/kg	40	8270C	06/07/12 16:33	PL	100-52-7	1
Benzo(a)anthracene	1,490	ug/kg	40	8270C	06/07/12 16:33	PL	56-55-3	1
Benzo(a)pyrene	1,400	ug/kg	40	8270C	06/07/12 16:33	PL	50-32-8	1
Benzo(b)fluoranthene	1,560	ug/kg	40	8270C	06/07/12 16:33	PL	205-99-2	1
Benzo(ghi)perylene	960	ug/kg	40	8270C	06/07/12 16:33	PL	191-24-2	1

1-Sample spiked at 1.83 mg/kg



Analytical Laboratory Report

Lab Sample ID: S52702.24 (continued)
Sample Tag: SB-A5.3-OI169_16-17 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	1,520	ug/kg	40	8270C	06/07/12 16:33	PL	207-08-9	1
Butyl benzyl phthalate	1,510	ug/kg	40	8270C	06/07/12 16:33	PL	85-68-7	1
2-Chloronaphthalene	1,480	ug/kg	40	8270C	06/07/12 16:33	PL	91-58-7	1
2-Chlorophenol	1,340	ug/kg	40	8270C	06/07/12 16:33	PL	95-57-8	1
4-Chloro-3-methylphenol	1,480	ug/kg	40	8270C	06/07/12 16:33	PL	59-50-7	1
4-Chloroaniline	490	ug/kg	40	8270C	06/07/12 16:33	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,550	ug/kg	40	8270C	06/07/12 16:33	PL	7005-72-3	1
Caprolactam	1,500	ug/kg	40	8270C	06/07/12 16:33	PL	105-60-2	1
Carbazole	1,520	ug/kg	40	8270C	06/07/12 16:33	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,300	ug/kg	40	8270C	06/07/12 16:33	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,220	ug/kg	40	8270C	06/07/12 16:33	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,420	ug/kg	40	8270C	06/07/12 16:33	PL	108-60-1	1
Chrysene	1,480	ug/kg	40	8270C	06/07/12 16:33	PL	218-01-9	1
2,4-Dichlorophenol	1,450	ug/kg	40	8270C	06/07/12 16:33	PL	120-83-2	1
2,4-Dimethylphenol	1,430	ug/kg	40	8270C	06/07/12 16:33	PL	105-67-9	1
2,4-Dinitrophenol	600	ug/kg	40	8270C	06/07/12 16:33	PL	51-28-5	1
2,4-Dinitrotoluene	1,580	ug/kg	40	8270C	06/07/12 16:33	PL	121-14-2	1
2,6-Dinitrotoluene	1,630	ug/kg	40	8270C	06/07/12 16:33	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,070	ug/kg	40	8270C	06/07/12 16:33	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,170	ug/kg	40	8270C	06/07/12 16:33	PL	534-52-1	1
Dibenzo(ah)anthracene	1,110	ug/kg	70	8270C	06/07/12 16:33	PL	53-70-3	1
Dibenzofuran	1,420	ug/kg	40	8270C	06/07/12 16:33	PL	132-64-9	1
Diethyl phthalate	1,580	ug/kg	70	8270C	06/07/12 16:33	PL	84-66-2	1
Dimethyl phthalate	1,620	ug/kg	40	8270C	06/07/12 16:33	PL	131-11-3	1B
bis(2-Ethylhexyl)phthalate	1,500	ug/kg	70	8270C	06/07/12 16:33	PL	117-81-7	1
Fluoranthene	1,540	ug/kg	40	8270C	06/07/12 16:33	PL	206-44-0	1
Fluorene	1,360	ug/kg	40	8270C	06/07/12 16:33	PL	86-73-7	1
Hexachlorobenzene	1,420	ug/kg	40	8270C	06/07/12 16:33	PL	118-74-1	1
Hexachlorobutadiene	1,240	ug/kg	40	8270C	06/07/12 16:33	PL	87-68-3	1
Hexachlorocyclopentadiene	970	ug/kg	40	8270C	06/07/12 16:33	PL	77-47-4	1
Hexachloroethane	1,200	ug/kg	40	8270C	06/07/12 16:33	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,060	ug/kg	40	8270C	06/07/12 16:33	PL	193-39-5	1
Isophorone	1,360	ug/kg	40	8270C	06/07/12 16:33	PL	78-59-1	1
2-Methylnaphthalene	1,270	ug/kg	40	8270C	06/07/12 16:33	PL	91-57-6	1
2-Methylphenol	1,400	ug/kg	40	8270C	06/07/12 16:33	PL	95-48-7	1
3-, 4-Methylphenol	1,600	ug/kg	70	8270C	06/07/12 16:33	PL	3/4-Cresol	1
2-Nitroaniline	1,620	ug/kg	40	8270C	06/07/12 16:33	PL	88-74-4	1
2-Nitrophenol	1,420	ug/kg	40	8270C	06/07/12 16:33	PL	88-75-5	1
3-Nitroaniline	1,250	ug/kg	40	8270C	06/07/12 16:33	PL	99-09-2	1
4-Nitroaniline	1,430	ug/kg	40	8270C	06/07/12 16:33	PL	100-01-6	1
4-Nitrophenol	1,340	ug/kg	40	8270C	06/07/12 16:33	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,370	ug/kg	40	8270C	06/07/12 16:33	PL	621-64-7	1
N-Nitrosodiphenylamine	1,110	ug/kg	40	8270C	06/07/12 16:33	PL	86-30-6	1
Naphthalene	1,250	ug/kg	40	8270C	06/07/12 16:33	PL	91-20-3	1
Nitrobenzene	1,310	ug/kg	40	8270C	06/07/12 16:33	PL	98-95-3	1
di-n-Octyl phthalate	1,590	ug/kg	70	8270C	06/07/12 16:33	PL	117-84-0	1
Pentachlorophenol	1,040	ug/kg	40	8270C	06/07/12 16:33	PL	87-86-5	1

1-Sample spiked at 1.83 mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52702.24 (continued)

Sample Tag: SB-A5.3-OI169_16-17 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenanthrene	1,430	ug/kg	40	8270C	06/07/12 16:33	PL	85-01-8	1
Phenol	1,370	ug/kg	40	8270C	06/07/12 16:33	PL	108-95-2	1
Pyrene	1,460	ug/kg	40	8270C	06/07/12 16:33	PL	129-00-0	1
2,4,5-Trichlorophenol	1,570	ug/kg	40	8270C	06/07/12 16:33	PL	95-95-4	1
2,4,6-Trichlorophenol	1,530	ug/kg	40	8270C	06/07/12 16:33	PL	88-06-2	1

1-Sample spiked at 1.83 mg/kg



69060

INVOICE TO

RELINQUISHED BY: <i>Megan Mackley</i>	DATE	TIME	RELINQUISHED BY:	DATE	TIME
SIGNATURE/ORGANIZATION <i>Megan Mackley</i>	6-1-12	9-	SIGNATURE/ORGANIZATION		
RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
SIGNATURE/ORGANIZATION <i>Mat</i>	6-1-12	9-	SIGNATURE/ORGANIZATION <i>Purd</i>	6-1-12	0930
RELINQUISHED BY:	DATE	TIME	SEAL NO.	SEAL INTACT	INITIALS
SIGNATURE/ORGANIZATION				YES ☐ NO ☐	
RELINQUISHED BY:	DATE	TIME	SEAL NO.	SEAL INTACT	INITIALS
SIGNATURE/ORGANIZATION				YES ☐ NO ☐	
			NOTES: TEMP. ON ARRIVAL <u>4.0</u>		

Rev. 1.15.12



REPORT TO

CONTACT NAME			
Randy Christensen			
COMPANY			
ARCADIS			
ADDRESS			
10559 Citation Drive Suite 100			
CITY		STATE	ZIP CODE
Brighton		MI	48116
PHONE NO.	FAX NO.	P.O. NO.	
810-225-1810		PO125047	
E-MAIL ADDRESS		QUOTE NO.	
randy.christensen@arcadis-us.com		Task# 5	

CHAIN OF CUSTODY RECORD

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE Mi	ZIP CODE 48198
PHONE NO. 313-486-9208		E-MAIL ADDRESS dfavero@racertrust.org	

INVOICE TO

PROJECT NO./NAME Lansing Plant 2	Project#: 800644 79.2012	SAMPLER(S) - PLEASE PRINT/SIGN NAME Megan Mackley / Megan Mackley
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER		
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER		

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications

☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations

☐ Detroit ☐ New York

☒ Other lens
Special Instructions

Special Instructions

MATRIX	GW-GROUNDWATER	WW-WASTEWATER	S-SOIL	L-LIQUID	SD-SOLID
CODE	SL-SLUDGE	DW-DRINKING WATER	O-OIL	WP-WIPE	A-AIR W=WASTE

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	H ₂ O ₂	OTHER	Other <u>Leasing</u> Special Instructions			
	DATE	TIME														
5270612	5/31/12	1320	SB-AS.3-OC175-15-16	S	1	X							X	X	X	
13		1340	SB-AS.3-OC175-1-2	S	1	X							X	X	X	
14		1408	SB-AS.3-OC175-5-9	GN	5		X						X	X	X	add 1,4 dioxane
15		1515	SB-AS.3-OC175-5-6	S	1	X							X	X	X	- metals, PCBs + SVOCs
16		1520	SB-AS.3-OC175-16-17	S	1	X							X	X	X	field filtered
17		1530	SB-AS.3-OC169-1-2	S	1	X							X	X	X	
18		1550	SB-AS.3-OC169-6-7	S	1	X							X	X	X	
19		1600	SB-AS.3-OC169-16-17	S	1	X							X	X	X	
20		1615	SB-AS.3-OC169-1-2	S	1	X							X	X	X	
21		1640	SB-AS.3-OC169-6-7	S	1	X							X	X	X	
22/23/24		1650	SB-AS.3-OC169-16-17	S	3	X							X	X	X	MS/MSD

RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>Megan Mackley</i>	<i>N</i> Sampler	DATE <i>6-1-12</i>	TIME <i>9-</i>
RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>Morgan Mackley</i>		DATE <i>6-1-12</i>	TIME <i>9-</i>
RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>SW</i>		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE TIME	
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE TIME	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES:	TEMP. ON ARRIVAL <u>4.6</u>
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



Analytical Laboratory Report

Report ID: S52708.01(01)
Generated on 06/04/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52708.01
Project: Lansing Plant #2 Project# B0064479.2012
Collected Date: 05/31/2012
Submitted Date/Time: 06/01/2012 09:30
Sampled by: Heryl Hicks
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52708.01	SB-37	Oil	05/31/2012 10:40



Analytical Laboratory Report

Lab Sample ID: S52708.01

Sample Tag: SB-37

Collected Date/Time: 05/31/2012 10:40

Matrix: Oil

COC Reference: 67419

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Extraction, PCB	Completed			3550B	06/04/12 11:34	ADB		
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Organics - PCBs/Pesticides

PCB List

PCB-1016	Not detected	ug/kg	7,000	8082A	06/04/12 13:03	JANB	12674-11-2	Y
PCB-1242	33,000	ug/kg	7,000	8082A	06/04/12 13:03	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	7,000	8082A	06/04/12 13:03	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	7,000	8082A	06/04/12 13:03	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	7,000	8082A	06/04/12 13:03	JANB	12672-29-6	Y
PCB-1254	Not detected	ug/kg	7,000	8082A	06/04/12 13:03	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	7,000	8082A	06/04/12 13:03	JANB	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration



www.meritlabs.com

Of

67419

INVOICE TO

Rev 115.12



Analytical Laboratory Report

Report ID: S52727.01(01)
Generated on 06/15/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52727.01-S52727.12
Project: Lansing Plant #2 Project# B0064479.2012
Collected Date: 06/01/2012
Submitted Date/Time: 06/01/2012 16:30
Sampled by: Megan Meckley
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (12 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52727.01	SB-A5.3-PC127_1-2	Soil	06/01/2012 09:10
S52727.02	SB-A5.3-PC127_7.5-8.5	Soil	06/01/2012 09:32
S52727.03	SB-A5.3-PC127_15-16	Soil	06/01/2012 09:40
S52727.04	SB-A5.3-OT127_1-2	Soil	06/01/2012 10:15
S52727.05	SB-A5.3-OT127_6-7	Soil	06/01/2012 10:40
S52727.06	SB-A5.3-OT127_8-12	Groundwater	06/01/2012 10:50
S52727.07	SB-A5.3-OT127_16-17	Soil	06/01/2012 11:35
S52727.08	SB-A5.3-OX123_1-2	Soil	06/01/2012 13:24
S52727.09	SB-A5.3-OX132_1-2	Soil	06/01/2012 14:31
S52727.10	SB-A5.3-OX132_5-9	Groundwater	06/01/2012 14:55
S52727.11	SB-A5.3-OX132_7-8	Soil	06/01/2012 15:05
S52727.12	SB-A5.3-OX132_16-17	Soil	06/01/2012 15:40



Analytical Laboratory Report

Lab Sample ID: S52727.01
Sample Tag: SB-A5.3-PC127_1-2
Collected Date/Time: 06/01/2012 09:10
Matrix: Soil
COC Reference: 69058

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/06/12 09:00	CCM		
Mercury Digestion	Completed			7471A	06/06/12 13:10	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	06/05/12 16:49	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/07/12 16:03	PER	7440-36-0	
Arsenic	1.71	mg/kg	0.10	6020	06/07/12 16:03	PER	7440-38-2	
Barium	24.7	mg/kg	1.0	6020	06/07/12 16:03	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/07/12 16:03	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/07/12 16:03	PER	7440-42-8	
Cadmium	0.17	mg/kg	0.10	6020	06/07/12 16:03	PER	7440-43-9	
Chromium	3.94	mg/kg	0.20	6020	06/07/12 16:03	PER	7440-47-3	
Cobalt	10.8	mg/kg	0.20	6020	06/07/12 16:03	PER	7440-48-4	
Copper	10.6	mg/kg	0.20	6020	06/07/12 16:03	PER	7440-50-8	
Lead	27.9	mg/kg	0.20	6020	06/07/12 16:03	PER	7439-92-1	
Manganese	177	mg/kg	0.20	6020	06/07/12 16:03	PER	7439-96-5	
Mercury	0.01457	mg/kg	0.0057	7471A	06/06/12 16:39	JRT	7439-97-6	
Nickel	8.67	mg/kg	0.20	6020	06/07/12 16:03	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/07/12 16:03	PER	7782-49-2	
Silver	1.22	mg/kg	0.10	6020	06/07/12 16:03	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/07/12 16:03	PER	7440-28-0	
Vanadium	4.87	mg/kg	0.20	6020	06/07/12 16:03	PER	7440-62-2	
Zinc	47.4	mg/kg	1.0	6020	06/07/12 16:03	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	208-96-8	
Acetophenone	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	98-86-2	
Anthracene	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	120-12-7	
Atrazine	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	8270C	06/08/12 08:40	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	100-52-7	
Benzo(a)anthracene	230	ug/kg	80	8270C	06/08/12 08:40	PL	56-55-3	
Benzo(a)pyrene	210	ug/kg	80	8270C	06/08/12 08:40	PL	50-32-8	
Benzo(b)fluoranthene	450	ug/kg	80	8270C	06/08/12 08:40	PL	205-99-2	p
Benzo(ghi)perylene	140	ug/kg	80	8270C	06/08/12 08:40	PL	191-24-2	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S52727.01 (continued)

Sample Tag: SB-A5.3-PC127_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	460	ug/kg	80	8270C	06/08/12 08:40	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	105-60-2	
Carbazole	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	108-60-1	
Chrysene	240	ug/kg	80	8270C	06/08/12 08:40	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	8270C	06/08/12 08:40	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	8270C	06/08/12 08:40	PL	84-66-2	
Dimethyl phthalate	80	ug/kg	80	8270C	06/08/12 08:40	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	8270C	06/08/12 08:40	PL	117-81-7	
Fluoranthene	380	ug/kg	80	8270C	06/08/12 08:40	PL	206-44-0	
Fluorene	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	120	ug/kg	80	8270C	06/08/12 08:40	PL	193-39-5	
Isophorone	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	8270C	06/08/12 08:40	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	86-30-6	
Naphthalene	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	8270C	06/08/12 08:40	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	87-86-5	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52727.01 (continued)

Sample Tag: SB-A5.3-PC127_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenanthrene	140	ug/kg	80	8270C	06/08/12 08:40	PL	85-01-8	
Phenol	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	108-95-2	
Pyrene	410	ug/kg	80	8270C	06/08/12 08:40	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	80	8270C	06/08/12 08:40	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52727.02
Sample Tag: SB-A5.3-PC127_7.5-8.5
Collected Date/Time: 06/01/2012 09:32
Matrix: Soil
COC Reference: 69058

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

BNA Extraction	Completed			3550B	06/06/12 09:00	CCM		
Mercury Digestion	Completed			7471A	06/06/12 13:10	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	06/05/12 16:49	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/07/12 16:05	PER	7440-36-0	
Arsenic	0.64	mg/kg	0.10	6020	06/07/12 16:05	PER	7440-38-2	
Barium	44.8	mg/kg	1.0	6020	06/07/12 16:05	PER	7440-39-3	
Beryllium	0.34	mg/kg	0.21	6020	06/07/12 16:05	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/07/12 16:05	PER	7440-42-8	
Cadmium	0.12	mg/kg	0.10	6020	06/07/12 16:05	PER	7440-43-9	
Chromium	5.83	mg/kg	0.21	6020	06/07/12 16:05	PER	7440-47-3	
Cobalt	2.94	mg/kg	0.21	6020	06/07/12 16:05	PER	7440-48-4	
Copper	10.5	mg/kg	0.21	6020	06/07/12 16:05	PER	7440-50-8	
Lead	6.05	mg/kg	0.21	6020	06/07/12 16:05	PER	7439-92-1	
Manganese	65.0	mg/kg	0.21	6020	06/07/12 16:05	PER	7439-96-5	
Mercury	0.03910	mg/kg	0.0057	7471A	06/06/12 16:41	JRT	7439-97-6	
Nickel	7.09	mg/kg	0.21	6020	06/07/12 16:05	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/07/12 16:05	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/07/12 16:05	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/07/12 16:05	PER	7440-28-0	
Vanadium	7.96	mg/kg	0.21	6020	06/07/12 16:05	PER	7440-62-2	
Zinc	21.2	mg/kg	1.0	6020	06/07/12 16:05	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 07:12	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52727.02 (continued)

Sample Tag: SB-A5.3-PC127_7.5-8.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/08/12 07:12	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 07:12	PL	84-66-2	
Dimethyl phthalate	110	ug/kg	40	8270C	06/08/12 07:12	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/08/12 07:12	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	78-59-1	
2-Methylnaphthalene	40	ug/kg	40	8270C	06/08/12 07:12	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/08/12 07:12	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	86-30-6	
Naphthalene	70	ug/kg	40	8270C	06/08/12 07:12	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 07:12	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52727.02 (continued)

Sample Tag: SB-A5.3-PC127_7.5-8.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 07:12	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52727.03
Sample Tag: SB-A5.3-PC127_15-16
Collected Date/Time: 06/01/2012 09:40
Matrix: Soil
COC Reference: 69058

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/06/12 09:00	CCM		
Mercury Digestion	Completed			7471A	06/06/12 13:10	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	06/05/12 16:49	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/07/12 16:07	PER	7440-36-0	
Arsenic	4.57	mg/kg	0.10	6020	06/07/12 16:07	PER	7440-38-2	
Barium	9.16	mg/kg	1.0	6020	06/07/12 16:07	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/07/12 16:07	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/07/12 16:07	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/07/12 16:07	PER	7440-43-9	
Chromium	2.19	mg/kg	0.20	6020	06/07/12 16:07	PER	7440-47-3	
Cobalt	2.03	mg/kg	0.20	6020	06/07/12 16:07	PER	7440-48-4	
Copper	7.59	mg/kg	0.20	6020	06/07/12 16:07	PER	7440-50-8	
Lead	3.02	mg/kg	0.20	6020	06/07/12 16:07	PER	7439-92-1	
Manganese	149	mg/kg	0.20	6020	06/07/12 16:07	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0055	7471A	06/06/12 16:43	JRT	7439-97-6	
Nickel	6.55	mg/kg	0.20	6020	06/07/12 16:07	PER	7440-02-0	
Selenium	0.22	mg/kg	0.20	6020	06/07/12 16:07	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/07/12 16:07	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/07/12 16:07	PER	7440-28-0	
Vanadium	3.87	mg/kg	0.20	6020	06/07/12 16:07	PER	7440-62-2	
Zinc	11.9	mg/kg	1.0	6020	06/07/12 16:07	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 07:41	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52727.03 (continued)

Sample Tag: SB-A5.3-PC127_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/08/12 07:41	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 07:41	PL	84-66-2	
Dimethyl phthalate	100	ug/kg	40	8270C	06/08/12 07:41	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/08/12 07:41	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/08/12 07:41	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 07:41	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52727.03 (continued)

Sample Tag: SB-A5.3-PC127_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 07:41	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52727.04
Sample Tag: SB-A5.3-OT127_1-2
Collected Date/Time: 06/01/2012 10:15
Matrix: Soil
COC Reference: 69058

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/06/12 13:02	CCM		
Mercury Digestion	Completed			7471A	06/06/12 13:10	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	06/05/12 16:49	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/07/12 16:09	PER	7440-36-0	
Arsenic	0.72	mg/kg	0.10	6020	06/07/12 16:09	PER	7440-38-2	
Barium	8.39	mg/kg	1.0	6020	06/07/12 16:09	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/07/12 16:09	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/07/12 16:09	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/07/12 16:09	PER	7440-43-9	
Chromium	1.23	mg/kg	0.20	6020	06/07/12 16:09	PER	7440-47-3	
Cobalt	1.67	mg/kg	0.20	6020	06/07/12 16:09	PER	7440-48-4	
Copper	2.86	mg/kg	0.20	6020	06/07/12 16:09	PER	7440-50-8	
Lead	2.01	mg/kg	0.20	6020	06/07/12 16:09	PER	7439-92-1	
Manganese	123	mg/kg	0.20	6020	06/07/12 16:09	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0058	7471A	06/06/12 16:45	JRT	7439-97-6	
Nickel	3.93	mg/kg	0.20	6020	06/07/12 16:09	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/07/12 16:09	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/07/12 16:09	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/07/12 16:09	PER	7440-28-0	
Vanadium	2.06	mg/kg	0.20	6020	06/07/12 16:09	PER	7440-62-2	
Zinc	6.41	mg/kg	1.0	6020	06/07/12 16:09	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	208-96-8	
Acetophenone	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	98-86-2	
Anthracene	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	120-12-7	
Atrazine	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	600	8270C	06/08/12 07:12	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	191-24-2	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52727.04 (continued)

Sample Tag: SB-A5.3-OT127_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	105-60-2	
Carbazole	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	108-60-1	
Chrysene	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	600	8270C	06/08/12 07:12	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	600	8270C	06/08/12 07:12	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	600	8270C	06/08/12 07:12	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	206-44-0	
Fluorene	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	193-39-5	
Isophorone	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	600	8270C	06/08/12 07:12	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	86-30-6	
Naphthalene	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	600	8270C	06/08/12 07:12	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	85-01-8	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52727.04 (continued)

Sample Tag: SB-A5.3-OT127_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	108-95-2	
Pyrene	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	300	8270C	06/08/12 07:12	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52727.05
Sample Tag: SB-A5.3-OT127_6-7
Collected Date/Time: 06/01/2012 10:40
Matrix: Soil
COC Reference: 69058

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/06/12 13:02	CCM		
Mercury Digestion	Completed			7471A	06/06/12 13:10	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	06/05/12 16:49	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/07/12 16:11	PER	7440-36-0	
Arsenic	0.33	mg/kg	0.10	6020	06/07/12 16:11	PER	7440-38-2	
Barium	31.6	mg/kg	1.0	6020	06/07/12 16:11	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/07/12 16:11	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/07/12 16:11	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/07/12 16:11	PER	7440-43-9	
Chromium	5.95	mg/kg	0.20	6020	06/07/12 16:11	PER	7440-47-3	
Cobalt	3.02	mg/kg	0.20	6020	06/07/12 16:11	PER	7440-48-4	
Copper	6.22	mg/kg	0.20	6020	06/07/12 16:11	PER	7440-50-8	
Lead	2.99	mg/kg	0.20	6020	06/07/12 16:11	PER	7439-92-1	
Manganese	81.4	mg/kg	0.20	6020	06/07/12 16:11	PER	7439-96-5	
Mercury	0.0160	mg/kg	0.0058	7471A	06/06/12 16:48	JRT	7439-97-6	
Nickel	8.58	mg/kg	0.20	6020	06/07/12 16:11	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/07/12 16:11	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/07/12 16:11	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/07/12 16:11	PER	7440-28-0	
Vanadium	5.15	mg/kg	0.20	6020	06/07/12 16:11	PER	7440-62-2	
Zinc	14.1	mg/kg	1.0	6020	06/07/12 16:11	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 02:09	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52727.05 (continued)

Sample Tag: SB-A5.3-OT127_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/08/12 02:09	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 02:09	PL	84-66-2	
Dimethyl phthalate	50	ug/kg	40	8270C	06/08/12 02:09	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/08/12 02:09	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/08/12 02:09	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 02:09	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52727.05 (continued)

Sample Tag: SB-A5.3-OT127_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 02:09	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52727.06
Sample Tag: SB-A5.3-OT127_8-12
Collected Date/Time: 06/01/2012 10:50
Matrix: Groundwater
COC Reference: 69058

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.1	IR
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	06/05/12 20:19	EMR		
Mercury Digestion	Completed			7471A	06/05/12 15:55	JRH		
Metal Digestion	Completed			3015A	06/07/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 23:44	SLS	7440-36-0	
Arsenic, Dissolved	0.004	mg/L	0.002	6020	06/07/12 23:44	SLS	7440-38-2	
Barium, Dissolved	0.139	mg/L	0.010	6020	06/07/12 23:44	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 23:44	SLS	7440-41-7	
Boron, Dissolved	0.04	mg/L	0.04	6020	06/07/12 23:44	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 23:44	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 23:44	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 23:44	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 23:44	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 23:44	SLS	7439-92-1	
Manganese, Dissolved	0.490	mg/L	0.010	6020	06/07/12 23:44	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	06/06/12 13:34	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 23:44	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 23:44	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	06/07/12 23:44	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 23:44	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 23:44	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 23:44	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/08/12 04:18	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/08/12 04:18	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	205-99-2	



Analytical Laboratory Report

Lab Sample ID: S52727.06 (continued)

Sample Tag: SB-A5.3-OT127_8-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	06/07/12 16:36	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	06/07/12 16:36	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	06/07/12 16:36	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	06/07/12 16:36	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	129-00-0	



Analytical Laboratory Report

Lab Sample ID: S52727.06 (continued)

Sample Tag: SB-A5.3-OT127_8-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	06/07/12 16:36	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52727.07
Sample Tag: SB-A5.3-OT127_16-17
Collected Date/Time: 06/01/2012 11:35
Matrix: Soil
COC Reference: 69058

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/06/12 13:02	CCM		
Mercury Digestion	Completed			7471A	06/06/12 13:10	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	06/05/12 16:49	RGS		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/07/12 16:13	PER	7440-36-0	
Arsenic	1.43	mg/kg	0.10	6020	06/07/12 16:13	PER	7440-38-2	
Barium	35.3	mg/kg	1.0	6020	06/07/12 16:13	PER	7440-39-3	
Beryllium	0.21	mg/kg	0.21	6020	06/07/12 16:13	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/07/12 16:13	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/07/12 16:13	PER	7440-43-9	
Chromium	6.54	mg/kg	0.21	6020	06/07/12 16:13	PER	7440-47-3	
Cobalt	4.56	mg/kg	0.21	6020	06/07/12 16:13	PER	7440-48-4	
Copper	11.0	mg/kg	0.21	6020	06/07/12 16:13	PER	7440-50-8	
Lead	5.45	mg/kg	0.21	6020	06/07/12 16:13	PER	7439-92-1	
Manganese	330	mg/kg	0.21	6020	06/07/12 16:13	PER	7439-96-5	
Mercury	0.0106	mg/kg	0.0056	7471A	06/06/12 16:50	JRT	7439-97-6	
Nickel	12.5	mg/kg	0.21	6020	06/07/12 16:13	PER	7440-02-0	
Selenium	0.24	mg/kg	0.21	6020	06/07/12 16:13	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/07/12 16:13	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/07/12 16:13	PER	7440-28-0	
Vanadium	10.9	mg/kg	0.21	6020	06/07/12 16:13	PER	7440-62-2	
Zinc	22.7	mg/kg	1.0	6020	06/07/12 16:13	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 02:42	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52727.07 (continued)

Sample Tag: SB-A5.3-OT127_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/08/12 02:42	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 02:42	PL	84-66-2	
Dimethyl phthalate	100	ug/kg	40	8270C	06/08/12 02:42	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/08/12 02:42	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/08/12 02:42	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 02:42	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52727.07 (continued)

Sample Tag: SB-A5.3-OT127_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 02:42	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52727.08
Sample Tag: SB-A5.3-OX123_1-2
Collected Date/Time: 06/01/2012 13:24
Matrix: Soil
COC Reference: 69058

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/06/12 13:02	CCM		
Mercury Digestion	Completed			7471A	06/06/12 13:10	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	06/05/12 16:49	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/07/12 16:15	PER	7440-36-0	
Arsenic	2.12	mg/kg	0.10	6020	06/07/12 16:15	PER	7440-38-2	
Barium	170	mg/kg	1.0	6020	06/07/12 16:15	PER	7440-39-3	
Beryllium	3.14	mg/kg	0.20	6020	06/07/12 16:15	PER	7440-41-7	
Boron	17.3	mg/kg	4.0	6020	06/07/12 16:15	PER	7440-42-8	
Cadmium	0.47	mg/kg	0.10	6020	06/07/12 16:15	PER	7440-43-9	
Chromium	11.7	mg/kg	0.20	6020	06/07/12 16:15	PER	7440-47-3	
Cobalt	2.46	mg/kg	0.20	6020	06/07/12 16:15	PER	7440-48-4	
Copper	12.9	mg/kg	0.20	6020	06/07/12 16:15	PER	7440-50-8	
Lead	31.3	mg/kg	0.20	6020	06/07/12 16:15	PER	7439-92-1	
Manganese	1,210	mg/kg	0.20	6020	06/07/12 16:15	PER	7439-96-5	
Mercury	0.0156	mg/kg	0.0055	7471A	06/06/12 16:52	JRT	7439-97-6	
Nickel	11.9	mg/kg	0.20	6020	06/07/12 16:15	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/07/12 16:15	PER	7782-49-2	
Silver	0.12	mg/kg	0.10	6020	06/07/12 16:15	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/07/12 16:15	PER	7440-28-0	
Vanadium	10.0	mg/kg	0.20	6020	06/07/12 16:15	PER	7440-62-2	
Zinc	90.1	mg/kg	1.0	6020	06/07/12 16:15	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	2,600	ug/kg	700	8270C	06/08/12 11:08	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	98-86-2	X
Anthracene	10,000	ug/kg	700	8270C	06/08/12 11:08	PL	120-12-7	X
Atrazine	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	1,000	8270C	06/08/12 11:08	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	100-52-7	X
Benzo(a)anthracene	23,100	ug/kg	700	8270C	06/08/12 11:08	PL	56-55-3	X
Benzo(a)pyrene	21,500	ug/kg	700	8270C	06/08/12 11:08	PL	50-32-8	XI
Benzo(b)fluoranthene	47,200	ug/kg	700	8270C	06/08/12 11:08	PL	205-99-2	Xpl

X-Elevated reporting limit due to matrix interference

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S52727.08 (continued)

Sample Tag: SB-A5.3-OX123_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	5,200	ug/kg	700	8270C	06/08/12 11:08	PL	191-24-2	XI
Benzo(k)fluoranthene	48,100	ug/kg	700	8270C	06/08/12 11:08	PL	207-08-9	Xpl
Butyl benzyl phthalate	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	105-60-2	X
Carbazole	5,700	ug/kg	700	8270C	06/08/12 11:08	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	108-60-1	X
Chrysene	23,800	ug/kg	700	8270C	06/08/12 11:08	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	534-52-1	X
Dibenzo(ah)anthracene	2,000	ug/kg	1,000	8270C	06/08/12 11:08	PL	53-70-3	XI
Dibenzofuran	1,700	ug/kg	700	8270C	06/08/12 11:08	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	1,000	8270C	06/08/12 11:08	PL	84-66-2	X
Dimethyl phthalate	2,500	ug/kg	700	8270C	06/08/12 11:08	PL	131-11-3	XB
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	1,000	8270C	06/08/12 11:08	PL	117-81-7	X
Fluoranthene	49,400	ug/kg	700	8270C	06/08/12 11:08	PL	206-44-0	X
Fluorene	3,300	ug/kg	700	8270C	06/08/12 11:08	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	5,400	ug/kg	700	8270C	06/08/12 11:08	PL	193-39-5	XI
Isophorone	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	1,000	8270C	06/08/12 11:08	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	98-95-3	X

X-Elevated reporting limit due to matrix interference I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52727.08 (continued)

Sample Tag: SB-A5.3-OX123_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
di-n-Octyl phthalate	Not detected	ug/kg	1,000	8270C	06/08/12 11:08	PL	117-84-0	XI
Pentachlorophenol	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	87-86-5	X
Phenanthrene	31,700	ug/kg	700	8270C	06/08/12 11:08	PL	85-01-8	X
Phenol	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	108-95-2	X
Pyrene	48,100	ug/kg	700	8270C	06/08/12 11:08	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	700	8270C	06/08/12 11:08	PL	88-06-2	X
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	2,500	ug/kg	700	8270C	06/08/12 21:29	JGH	83-32-9	X
Acenaphthylene	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	208-96-8	X
Acetophenone	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	98-86-2	X
Anthracene	9,300	ug/kg	700	8270C	06/08/12 21:29	JGH	120-12-7	X
Atrazine	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	1,000	8270C	06/08/12 21:29	JGH	84-74-2	X
Benzaldehyde	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	100-52-7	X
Benzo(a)anthracene	22,500	ug/kg	700	8270C	06/08/12 21:29	JGH	56-55-3	IX
Benzo(a)pyrene	21,900	ug/kg	700	8270C	06/08/12 21:29	JGH	50-32-8	IX
Benzo(b)fluoranthene	22,300	ug/kg	700	8270C	06/08/12 21:29	JGH	205-99-2	IX
Benzo(ghi)perylene	11,000	ug/kg	700	8270C	06/08/12 21:29	JGH	191-24-2	IX
Benzo(k)fluoranthene	24,900	ug/kg	700	8270C	06/08/12 21:29	JGH	207-08-9	IX
Butyl benzyl phthalate	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	85-68-7	IX
2-Chloronaphthalene	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	7005-72-3	X
Caprolactam	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	105-60-2	X
Carbazole	4,300	ug/kg	700	8270C	06/08/12 21:29	JGH	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	108-60-1	X
Chrysene	21,900	ug/kg	700	8270C	06/08/12 21:29	JGH	218-01-9	IX
2,4-Dichlorophenol	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	91-94-1	IX
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	534-52-1	X
Dibenzo(ah)anthracene	4,000	ug/kg	1,000	8270C	06/08/12 21:29	JGH	53-70-3	IX
Dibenzofuran	1,600	ug/kg	700	8270C	06/08/12 21:29	JGH	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	1,000	8270C	06/08/12 21:29	JGH	84-66-2	X
Dimethyl phthalate	2,000	ug/kg	700	8270C	06/08/12 21:29	JGH	131-11-3	BX
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	1,000	8270C	06/08/12 21:29	JGH	117-81-7	IX

X-Elevated reporting limit due to matrix interference I-Matrix interference with internal standard

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52727.08 (continued)

Sample Tag: SB-A5.3-OX123_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
Fluoranthene	39,300	ug/kg	700	8270C	06/08/12 21:29	JGH	206-44-0	X
Fluorene	3,400	ug/kg	700	8270C	06/08/12 21:29	JGH	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	77-47-4	X
Hexachloroethane	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	67-72-1	X
Indeno(1,2,3-cd)pyrene	9,100	ug/kg	700	8270C	06/08/12 21:29	JGH	193-39-5	IX
Isophorone	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	91-57-6	X
2-Methylphenol	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	1,000	8270C	06/08/12 21:29	JGH	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	86-30-6	X
Naphthalene	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	91-20-3	X
Nitrobenzene	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	1,000	8270C	06/08/12 21:29	JGH	117-84-0	IX
Pentachlorophenol	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	87-86-5	X
Phenanthrene	29,600	ug/kg	700	8270C	06/08/12 21:29	JGH	85-01-8	X
Phenol	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	108-95-2	X
Pyrene	64,100	ug/kg	700	8270C	06/08/12 21:29	JGH	129-00-0	IX
2,4,5-Trichlorophenol	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	700	8270C	06/08/12 21:29	JGH	88-06-2	X

X-Elevated reporting limit due to matrix interference

I-Matrix interference with internal standard



Analytical Laboratory Report

Lab Sample ID: S52727.09
Sample Tag: SB-A5.3-OX132_1-2
Collected Date/Time: 06/01/2012 14:31
Matrix: Soil
COC Reference: 69058

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/06/12 13:02	CCM		
BNA Extraction (Replicate 01)	Completed			3550B	06/11/12 11:59	CCM		
Mercury Digestion	Completed			7471A	06/06/12 13:10	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:00	PER		

Inorganics

Total Solids	81	%	1	Std M 2540 B	06/05/12 16:49	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/07/12 16:17	PER	7440-36-0	
Arsenic	1.51	mg/kg	0.10	6020	06/07/12 16:17	PER	7440-38-2	
Barium	52.4	mg/kg	1.0	6020	06/07/12 16:17	PER	7440-39-3	
Beryllium	0.30	mg/kg	0.20	6020	06/07/12 16:17	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/07/12 16:17	PER	7440-42-8	
Cadmium	0.18	mg/kg	0.10	6020	06/07/12 16:17	PER	7440-43-9	
Chromium	7.87	mg/kg	0.20	6020	06/07/12 16:17	PER	7440-47-3	
Cobalt	2.47	mg/kg	0.20	6020	06/07/12 16:17	PER	7440-48-4	
Copper	8.12	mg/kg	0.20	6020	06/07/12 16:17	PER	7440-50-8	
Lead	19.3	mg/kg	0.20	6020	06/07/12 16:17	PER	7439-92-1	
Manganese	235	mg/kg	0.20	6020	06/07/12 16:17	PER	7439-96-5	
Mercury	0.0125	mg/kg	0.006	7471A	06/06/12 16:54	JRT	7439-97-6	
Nickel	6.84	mg/kg	0.20	6020	06/07/12 16:17	PER	7440-02-0	
Selenium	0.20	mg/kg	0.20	6020	06/07/12 16:17	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/07/12 16:17	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/07/12 16:17	PER	7440-28-0	
Vanadium	6.15	mg/kg	0.20	6020	06/07/12 16:17	PER	7440-62-2	
Zinc	34.4	mg/kg	1.0	6020	06/07/12 16:17	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	300	ug/kg	200	8270C	06/08/12 10:35	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	208-96-8	
Acetophenone	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	98-86-2	
Anthracene	1,100	ug/kg	200	8270C	06/08/12 10:35	PL	120-12-7	S
Atrazine	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	1912-24-9	S
1,1'-Biphenyl	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	101-55-3	S
di-n-Butyl phthalate	Not detected	ug/kg	500	8270C	06/08/12 10:35	PL	84-74-2	XS
Benzaldehyde	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	100-52-7	
Benzo(a)anthracene	2,800	ug/kg	200	8270C	06/08/12 10:35	PL	56-55-3	
Benzo(a)pyrene	3,000	ug/kg	200	8270C	06/08/12 10:35	PL	50-32-8	I

S-Surrogate recovery outside of control limits

X-Elevated reporting limit due to matrix interference

I-Matrix interference with internal standard



Analytical Laboratory Report

Lab Sample ID: S52727.09 (continued)

Sample Tag: SB-A5.3-OX132_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(b)fluoranthene	6,200	ug/kg	200	8270C	06/08/12 10:35	PL	205-99-2	Ip
Benzo(ghi)perylene	800	ug/kg	200	8270C	06/08/12 10:35	PL	191-24-2	I
Benzo(k)fluoranthene	6,400	ug/kg	200	8270C	06/08/12 10:35	PL	207-08-9	Ip
Butyl benzyl phthalate	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	105-60-2	
Carbazole	900	ug/kg	200	8270C	06/08/12 10:35	PL	86-74-8	S
bis(2-Chloroethoxy)methane	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	108-60-1	
Chrysene	2,900	ug/kg	200	8270C	06/08/12 10:35	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	534-52-1	S
Dibenzo(ah)anthracene	Not detected	ug/kg	500	8270C	06/08/12 10:35	PL	53-70-3	XI
Dibenzofuran	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	500	8270C	06/08/12 10:35	PL	84-66-2	X
Dimethyl phthalate	300	ug/kg	200	8270C	06/08/12 10:35	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	500	8270C	06/08/12 10:35	PL	117-81-7	X
Fluoranthene	7,300	ug/kg	200	8270C	06/08/12 10:35	PL	206-44-0	S
Fluorene	400	ug/kg	200	8270C	06/08/12 10:35	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	118-74-1	S
Hexachlorobutadiene	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	900	ug/kg	200	8270C	06/08/12 10:35	PL	193-39-5	I
Isophorone	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	500	8270C	06/08/12 10:35	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	86-30-6	

I-Matrix interference with internal standard p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

S-Surrogate recovery outside of control limits

X-Elevated reporting limit due to matrix interference

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52727.09 (continued)

Sample Tag: SB-A5.3-OX132_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Naphthalene	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	500	8270C	06/08/12 10:35	PL	117-84-0	IX
Pentachlorophenol	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	87-86-5	S
Phenanthrene	4,700	ug/kg	200	8270C	06/08/12 10:35	PL	85-01-8	S
Phenol	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	108-95-2	
Pyrene	6,200	ug/kg	200	8270C	06/08/12 10:35	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	200	8270C	06/08/12 10:35	PL	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	98-86-2	
Anthracene	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	120-12-7	S
Atrazine	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	1912-24-9	S
1,1'-Biphenyl	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	101-55-3	S
di-n-Butyl phthalate	Not detected	ug/kg	500	8270C	06/15/12 07:31	JGH	84-74-2	S
Benzaldehyde	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	100-52-7	
Benzo(a)anthracene	700	ug/kg	200	8270C	06/15/12 07:31	JGH	56-55-3	
Benzo(a)pyrene	600	ug/kg	200	8270C	06/15/12 07:31	JGH	50-32-8	
Benzo(b)fluoranthene	1,200	ug/kg	200	8270C	06/15/12 07:31	JGH	205-99-2	p
Benzo(ghi)perylene	400	ug/kg	200	8270C	06/15/12 07:31	JGH	191-24-2	
Benzo(k)fluoranthene	1,200	ug/kg	200	8270C	06/15/12 07:31	JGH	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	105-60-2	
Carbazole	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	86-74-8	S
bis(2-Chloroethoxy)methane	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	108-60-1	
Chrysene	700	ug/kg	200	8270C	06/15/12 07:31	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	534-52-1	S
Dibenzo(ah)anthracene	Not detected	ug/kg	500	8270C	06/15/12 07:31	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	132-64-9	

I-Matrix interference with internal standard X-Elevated reporting limit due to matrix interference

S-Surrogate recovery outside of control limits

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S52727.09 (continued)

Sample Tag: SB-A5.3-OX132_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
Diethyl phthalate	Not detected	ug/kg	500	8270C	06/15/12 07:31	JGH	84-66-2	
Dimethyl phthalate	300	ug/kg	200	8270C	06/15/12 07:31	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	500	8270C	06/15/12 07:31	JGH	117-81-7	
Fluoranthene	1,500	ug/kg	200	8270C	06/15/12 07:31	JGH	206-44-0	S
Fluorene	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	118-74-1	S
Hexachlorobutadiene	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	400	ug/kg	200	8270C	06/15/12 07:31	JGH	193-39-5	
Isophorone	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	500	8270C	06/15/12 07:31	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	86-30-6	S
Naphthalene	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	500	8270C	06/15/12 07:31	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	87-86-5	S
Phenanthrene	800	ug/kg	200	8270C	06/15/12 07:31	JGH	85-01-8	S
Phenol	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	108-95-2	
Pyrene	1,200	ug/kg	200	8270C	06/15/12 07:31	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	200	8270C	06/15/12 07:31	JGH	88-06-2	

B-Compound also found in associated method blank

S-Surrogate recovery outside of control limits



Analytical Laboratory Report

Lab Sample ID: S52727.10
Sample Tag: SB-A5.3-OX132_5-9
Collected Date/Time: 06/01/2012 14:55
Matrix: Groundwater
COC Reference: 69058

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.1	IR
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	06/05/12 20:19	EMR		
Mercury Digestion	Completed			7471A	06/06/12 08:00	JRH		
Metal Digestion	Completed			3015A	06/07/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 23:48	SLS	7440-36-0	
Arsenic, Dissolved	0.027	mg/L	0.002	6020	06/07/12 23:48	SLS	7440-38-2	
Barium, Dissolved	0.042	mg/L	0.010	6020	06/07/12 23:48	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 23:48	SLS	7440-41-7	
Boron, Dissolved	0.13	mg/L	0.04	6020	06/07/12 23:48	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 23:48	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 23:48	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 23:48	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 23:48	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 23:48	SLS	7439-92-1	
Manganese, Dissolved	0.323	mg/L	0.010	6020	06/07/12 23:48	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	06/06/12 13:59	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 23:48	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 23:48	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	06/07/12 23:48	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 23:48	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 23:48	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 23:48	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/08/12 04:47	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/08/12 04:47	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	2	8270C	06/07/12 17:11	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	205-99-2	



Analytical Laboratory Report

Lab Sample ID: S52727.10 (continued)

Sample Tag: SB-A5.3-OX132_5-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	06/07/12 17:11	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	120-83-2	
2,4-Dimethylphenol	2	ug/L	1	8270C	06/07/12 17:11	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	06/07/12 17:11	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	06/07/12 17:11	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	06/07/12 17:11	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	129-00-0	



Analytical Laboratory Report

Lab Sample ID: S52727.10 (continued)

Sample Tag: SB-A5.3-OX132_5-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	06/07/12 17:11	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S52727.11
Sample Tag: SB-A5.3-OX132_7-8
Collected Date/Time: 06/01/2012 15:05
Matrix: Soil
COC Reference: 69058

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/06/12 13:02	CCM		
Mercury Digestion	Completed			7471A	06/06/12 13:10	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	06/05/12 16:49	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/07/12 16:19	PER	7440-36-0	
Arsenic	0.82	mg/kg	0.10	6020	06/07/12 16:19	PER	7440-38-2	
Barium	5.38	mg/kg	1.0	6020	06/07/12 16:19	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/07/12 16:19	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/07/12 16:19	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/07/12 16:19	PER	7440-43-9	
Chromium	1.89	mg/kg	0.20	6020	06/07/12 16:19	PER	7440-47-3	
Cobalt	1.12	mg/kg	0.20	6020	06/07/12 16:19	PER	7440-48-4	
Copper	4.48	mg/kg	0.20	6020	06/07/12 16:19	PER	7440-50-8	
Lead	1.92	mg/kg	0.20	6020	06/07/12 16:19	PER	7439-92-1	
Manganese	122	mg/kg	0.20	6020	06/07/12 16:19	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0057	7471A	06/06/12 16:57	JRT	7439-97-6	
Nickel	3.58	mg/kg	0.20	6020	06/07/12 16:19	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/07/12 16:19	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/07/12 16:19	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/07/12 16:19	PER	7440-28-0	
Vanadium	2.95	mg/kg	0.20	6020	06/07/12 16:19	PER	7440-62-2	
Zinc	5.86	mg/kg	1.0	6020	06/07/12 16:19	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	98-86-2	X
Anthracene	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	120-12-7	X
Atrazine	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	6,000	8270C	06/08/12 08:53	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	191-24-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52727.11 (continued)

Sample Tag: SB-A5.3-OX132_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	105-60-2	X
Carbazole	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	108-60-1	X
Chrysene	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	6,000	8270C	06/08/12 08:53	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	6,000	8270C	06/08/12 08:53	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	6,000	8270C	06/08/12 08:53	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	206-44-0	X
Fluorene	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	193-39-5	X
Isophorone	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	6,000	8270C	06/08/12 08:53	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	86-30-6	X
Naphthalene	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	6,000	8270C	06/08/12 08:53	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	87-86-5	X
Phenanthrene	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	85-01-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52727.11 (continued)

Sample Tag: SB-A5.3-OX132_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	108-95-2	X
Pyrene	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	3,000	8270C	06/08/12 08:53	PL	88-06-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S52727.12
Sample Tag: SB-A5.3-OX132_16-17
Collected Date/Time: 06/01/2012 15:40
Matrix: Soil
COC Reference: 69058

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/06/12 13:02	CCM		
Mercury Digestion	Completed			7471A	06/06/12 13:10	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	06/05/12 16:49	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/07/12 16:21	PER	7440-36-0	
Arsenic	0.66	mg/kg	0.10	6020	06/07/12 16:21	PER	7440-38-2	
Barium	15.6	mg/kg	1.0	6020	06/07/12 16:21	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/07/12 16:21	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/07/12 16:21	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/07/12 16:21	PER	7440-43-9	
Chromium	3.40	mg/kg	0.20	6020	06/07/12 16:21	PER	7440-47-3	
Cobalt	2.13	mg/kg	0.20	6020	06/07/12 16:21	PER	7440-48-4	
Copper	7.46	mg/kg	0.20	6020	06/07/12 16:21	PER	7440-50-8	
Lead	2.97	mg/kg	0.20	6020	06/07/12 16:21	PER	7439-92-1	
Manganese	158	mg/kg	0.20	6020	06/07/12 16:21	PER	7439-96-5	
Mercury	0.0063	mg/kg	0.0055	7471A	06/06/12 16:59	JRT	7439-97-6	
Nickel	6.55	mg/kg	0.20	6020	06/07/12 16:21	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/07/12 16:21	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/07/12 16:21	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/07/12 16:21	PER	7440-28-0	
Vanadium	4.65	mg/kg	0.20	6020	06/07/12 16:21	PER	7440-62-2	
Zinc	10.5	mg/kg	1.0	6020	06/07/12 16:21	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 03:16	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S52727.12 (continued)

Sample Tag: SB-A5.3-OX132_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/08/12 03:16	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 03:16	PL	84-66-2	
Dimethyl phthalate	100	ug/kg	40	8270C	06/08/12 03:16	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/08/12 03:16	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/08/12 03:16	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 03:16	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S52727.12 (continued)

Sample Tag: SB-A5.3-OX132_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 03:16	PL	88-06-2	



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Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

69058

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Randy Christensen			
COMPANY ARCADIS			
ADDRESS 10559 Citation Drive Suite 100			
CITY Brighton		STATE MI	ZIP CODE 48116
PHONE NO. 810-225-1910	FAX NO.	P.O. NO. PO 185047	
E-MAIL ADDRESS randy.christensen@arcadis-us.com		QUOTE NO. Task# 5	

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208	E-MAIL ADDRESS dfavero@racertrust.org		

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Lansing Plant 2 Project# B00644 7/9/2012	SAMPLER(S) - PLEASE PRINT/SIGN NAME Meyer Meckley / Meyer Meckley
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER	
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER	

MATRIX CODE:	GW-GROUNDWATER	WW-WASTEWATER	S-SOIL	L-LIQUID	SD-SOLID	
	SL-SLUDGE	DW-DRINKING WATER	O-OIL	WP-WIPE	A-AIR	W-WASTE

Containers & Preservatives

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER
	DATE	TIME										
927210	6/11/12	0910	SB-AS.3-PC127-1-2	S	1							
.02		0932	SB-AS.3-PC127-7.5-8.5	S	1							
.03		0940	SB-AS.3-PC127-15-16	S	1							
.04		1015	SB-AS.3-DT127-1-2	S	1							
.05		1040	SB-AS.3-OT127-6-7	S	1							
.06		1050	SB-AS.3-OT127-8-12	GW	5		X					
.07		1135	SB-AS.3-OT127-16-17	S	1							
.08		1324	JB-AS.3-OX123-1-2	S	1							
.09		1431	SB-AS.3-OX132-1-2	S	1							
.10		1455	SB-AS.3-OX132-5-9	GW	5							
.11		1505	SB-AS.3-OX132-7-8	S	1							
.12		1540	JB-AS.3-OX132-16-17	S	1	X						

VOCs/1,4 Dioxane	SVOCs	PCBs	Metals (w/1g)
	X	X	X
	X	X	X
	X	X	X
	X	X	X
	X	X	X
X	X	X	X
	X	X	X
	X	X	X
	X	X	X
X	X		X
	X	X	X
	X	X	X

Certifications	
☐ OHIO VAP	☐ Drinking Water
☐ DoD	☐ NPDES
Project Locations	
☐ Detroit	☐ New York
☒ Other	LANSING
Special Instructions	

Had 64 hours
metals, ~~and~~ SVOC
field filtered

RELINQUISHED BY: Meyer Meckley	SAMPLER Meyer Meckley	DATE 6/11/12	TIME 1600
SIGNATURE/ORGANIZATION			
RELINQUISHED BY: Isaiah		DATE 6/11/12	TIME 1600
SIGNATURE/ORGANIZATION			
RELINQUISHED BY:		DATE	TIME
SIGNATURE/ORGANIZATION			
RELINQUISHED BY:		DATE	TIME
SIGNATURE/ORGANIZATION			

RELINQUISHED BY: Isaiah	DATE 6-1-12	TIME 1630
SIGNATURE/ORGANIZATION		
SEAL NO.	SEAL INTACT ☐ YES ☐ NO	INITIALS
SEAL NO.	SEAL INTACT ☐ YES ☐ NO	INITIALS
NOTES:		TEMP. ON ARRIVAL 41



Analytical Laboratory Report

Revised Report

Report ID: S52742.01(02)

Generated on 06/19/2012

Replaces report S52742.01(01) generated on 06/12/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52742.01-S52742.26

Project: Lansing Plant #2 Project# B0064479.2012

Collected Date: 06/04/2012

Submitted Date/Time: 06/05/2012 09:00

Sampled by: Megan Meckley

P.O. #: PO125047

.07-.11 sample tags corrected.

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Revised Report

Sample Summary (26 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52742.01	SB-A2-PB67_0-1	Soil	06/04/2012 10:54
S52742.02	SB-A2-PB67_9.5-10.5	Soil	06/04/2012 11:16
S52742.03	SB-A2-DUP71	Soil	06/04/2012 00:01
S52742.04	SB-A2-PB67_16-17	Soil	06/04/2012 11:20
S52742.05	SB-A2-PB67_16-17 MS	Soil	06/04/2012 11:20
S52742.06	SB-A2-PB67_16-17 MSD	Soil	06/04/2012 11:20
S52742.07	SB-A2-PA65_1-2	Soil	06/04/2012 12:02
S52742.08	SB-A2-PA65_9.5-10.5	Soil	06/04/2012 12:18
S52742.09	SB-A2-PA65_16-17	Soil	06/04/2012 12:30
S52742.10	SB-A2-PA65_16-17 MS	Soil	06/04/2012 12:30
S52742.11	SB-A2-PA65_16-17 MSD	Soil	06/04/2012 12:30
S52742.12	SB-A2-PD65_1-2	Soil	06/04/2012 14:13
S52742.13	SB-A2-PD65_9-10	Soil	06/04/2012 14:21
S52742.14	SB-A2-PD65_16-17	Soil	06/04/2012 14:30
S52742.15	SB-A2-PD65_15-16	Soil	06/04/2012 14:33
S52742.16	SB-A2-PC64_1-2	Soil	06/04/2012 15:17
S52742.17	SB-A2-PC64_5-6	Soil	06/04/2012 15:45
S52742.18	SB-A2-PC64_15-16	Soil	06/04/2012 15:50
S52742.19	SB-A2-DUP72	Soil	06/04/2012 00:01
S52742.20	SB-A2-PC64_18-19	Soil	06/04/2012 16:06
S52742.21	Trip Blank	Water	06/04/2012 00:01
S52742.22	SB-A5.2-NY92_1.6-2	Soil	06/04/2012 16:15
S52742.23	SB-A5.2-NY92_3-4	Soil	06/04/2012 16:20
S52742.24	SB-A5.2-NY92_8-9	Soil	06/04/2012 16:40
S52742.25	SB-A2-EB3	Groundwater	06/04/2012 16:30
S52742.26	SB-A5.2-DUP73	Soil	06/04/2012 00:01



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.01
Sample Tag: SB-A2-PB67_0-1
Collected Date/Time: 06/04/2012 10:54
Matrix: Soil
COC Reference: 69057

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 01:52	EMR		
Mercury Digestion	Completed			7471A	06/07/12 11:00	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:30	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	06/05/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/07/12 17:31	PER	7440-36-0	
Arsenic	1.67	mg/kg	0.10	6020	06/07/12 17:31	PER	7440-38-2	
Barium	10.9	mg/kg	1.0	6020	06/07/12 17:31	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/07/12 17:31	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/07/12 17:31	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/07/12 17:31	PER	7440-43-9	
Chromium	2.85	mg/kg	0.21	6020	06/07/12 17:31	PER	7440-47-3	
Cobalt	29.3	mg/kg	0.21	6020	06/07/12 17:31	PER	7440-48-4	
Copper	3.50	mg/kg	0.21	6020	06/07/12 17:31	PER	7440-50-8	
Lead	2.53	mg/kg	0.21	6020	06/07/12 17:31	PER	7439-92-1	
Manganese	180	mg/kg	0.21	6020	06/07/12 17:31	PER	7439-96-5	
Mercury	0.0105	mg/kg	0.0057	7471A	06/07/12 14:44	JRT	7439-97-6	
Nickel	5.83	mg/kg	0.21	6020	06/07/12 17:31	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/07/12 17:31	PER	7782-49-2	
Silver	6.20	mg/kg	0.10	6020	06/07/12 17:31	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/07/12 17:31	PER	7440-28-0	
Vanadium	4.09	mg/kg	0.21	6020	06/07/12 17:31	PER	7440-62-2	
Zinc	8.40	mg/kg	1.0	6020	06/07/12 17:31	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 14:27	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	191-24-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.01 (continued)

Sample Tag: SB-A2-PB67_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/08/12 14:27	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 14:27	JGH	84-66-2	
Dimethyl phthalate	120	ug/kg	40	8270C	06/08/12 14:27	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/08/12 14:27	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/08/12 14:27	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 14:27	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.01 (continued)

Sample Tag: SB-A2-PB67_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 14:27	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/07/12 18:40	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	76-13-1	
Acetone	Not detected	ug/kg	660	5035/8260B	06/07/12 18:40	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	660	5035/8260B	06/07/12 18:40	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	660	5035/8260B	06/07/12 18:40	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	660	5035/8260B	06/07/12 18:40	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	660	5035/8260B	06/07/12 18:40	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/07/12 18:40	WAT		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.01 (continued)

Sample Tag: SB-A2-PB67_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/07/12 18:40	WAT	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.02
Sample Tag: SB-A2-PB67_9.5-10.5
Collected Date/Time: 06/04/2012 11:16
Matrix: Soil
COC Reference: 69057

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 01:52	EMR		
Mercury Digestion	Completed			7471A	06/07/12 11:00	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:30	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	06/05/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/07/12 17:33	PER	7440-36-0	
Arsenic	0.87	mg/kg	0.10	6020	06/07/12 17:33	PER	7440-38-2	
Barium	20.9	mg/kg	1.0	6020	06/07/12 17:33	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/07/12 17:33	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/07/12 17:33	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/07/12 17:33	PER	7440-43-9	
Chromium	4.94	mg/kg	0.20	6020	06/07/12 17:33	PER	7440-47-3	
Cobalt	4.21	mg/kg	0.20	6020	06/07/12 17:33	PER	7440-48-4	
Copper	6.39	mg/kg	0.20	6020	06/07/12 17:33	PER	7440-50-8	
Lead	7.95	mg/kg	0.20	6020	06/07/12 17:33	PER	7439-92-1	
Manganese	250	mg/kg	0.20	6020	06/07/12 17:33	PER	7439-96-5	
Mercury	0.0132	mg/kg	0.0054	7471A	06/07/12 14:46	JRT	7439-97-6	
Nickel	9.68	mg/kg	0.20	6020	06/07/12 17:33	PER	7440-02-0	
Selenium	0.25	mg/kg	0.20	6020	06/07/12 17:33	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/07/12 17:33	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/07/12 17:33	PER	7440-28-0	
Vanadium	8.11	mg/kg	0.20	6020	06/07/12 17:33	PER	7440-62-2	
Zinc	19.2	mg/kg	1.0	6020	06/07/12 17:33	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 14:56	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	191-24-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.02 (continued)

Sample Tag: SB-A2-PB67_9.5-10.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/08/12 14:56	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 14:56	JGH	84-66-2	
Dimethyl phthalate	110	ug/kg	40	8270C	06/08/12 14:56	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/08/12 14:56	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/08/12 14:56	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 14:56	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.02 (continued)

Sample Tag: SB-A2-PB67_9.5-10.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 14:56	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/07/12 18:59	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	76-13-1	
Acetone	Not detected	ug/kg	630	5035/8260B	06/07/12 18:59	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	630	5035/8260B	06/07/12 18:59	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	630	5035/8260B	06/07/12 18:59	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	630	5035/8260B	06/07/12 18:59	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	630	5035/8260B	06/07/12 18:59	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	79-00-5	
Tetrachloroethene	1,630	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/07/12 18:59	WAT		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.02 (continued)

Sample Tag: SB-A2-PB67_9.5-10.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 18:59	WAT	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.03
Sample Tag: SB-A2-DUP71
Collected Date/Time: 06/04/2012 00:01
Matrix: Soil
COC Reference: 69057

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 01:52	EMR		
Mercury Digestion	Completed			7471A	06/07/12 11:00	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:30	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	06/05/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/07/12 17:35	PER	7440-36-0	
Arsenic	1.24	mg/kg	0.10	6020	06/07/12 17:35	PER	7440-38-2	
Barium	20.6	mg/kg	1.0	6020	06/07/12 17:35	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/07/12 17:35	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/07/12 17:35	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/07/12 17:35	PER	7440-43-9	
Chromium	5.62	mg/kg	0.20	6020	06/07/12 17:35	PER	7440-47-3	
Cobalt	3.52	mg/kg	0.20	6020	06/07/12 17:35	PER	7440-48-4	
Copper	7.00	mg/kg	0.20	6020	06/07/12 17:35	PER	7440-50-8	
Lead	4.11	mg/kg	0.20	6020	06/07/12 17:35	PER	7439-92-1	
Manganese	181	mg/kg	0.20	6020	06/07/12 17:35	PER	7439-96-5	
Mercury	0.0116	mg/kg	0.0056	7471A	06/07/12 14:48	JRT	7439-97-6	
Nickel	8.68	mg/kg	0.20	6020	06/07/12 17:35	PER	7440-02-0	
Selenium	0.24	mg/kg	0.20	6020	06/07/12 17:35	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/07/12 17:35	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/07/12 17:35	PER	7440-28-0	
Vanadium	7.73	mg/kg	0.20	6020	06/07/12 17:35	PER	7440-62-2	
Zinc	15.1	mg/kg	1.0	6020	06/07/12 17:35	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 15:25	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	191-24-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.03 (continued)

Sample Tag: SB-A2-DUP71

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/08/12 15:25	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 15:25	JGH	84-66-2	
Dimethyl phthalate	90	ug/kg	40	8270C	06/08/12 15:25	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/08/12 15:25	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/08/12 15:25	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 15:25	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.03 (continued)

Sample Tag: SB-A2-DUP71

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 15:25	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/07/12 19:19	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	76-13-1	
Acetone	Not detected	ug/kg	590	5035/8260B	06/07/12 19:19	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	590	5035/8260B	06/07/12 19:19	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	590	5035/8260B	06/07/12 19:19	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	590	5035/8260B	06/07/12 19:19	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	590	5035/8260B	06/07/12 19:19	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	79-00-5	
Tetrachloroethene	1,720	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/07/12 19:19	WAT		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.03 (continued)

Sample Tag: SB-A2-DUP71

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:19	WAT	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.04

Sample Tag: SB-A2-PB67_16-17

Collected Date/Time: 06/04/2012 11:20

Matrix: Soil

COC Reference: 69057

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 01:52	EMR		
Mercury Digestion	Completed			7471A	06/07/12 11:00	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:30	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	06/05/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/07/12 17:50	PER	7440-36-0	
Arsenic	1.43	mg/kg	0.10	6020	06/07/12 17:50	PER	7440-38-2	
Barium	17.3	mg/kg	1.0	6020	06/07/12 17:50	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/07/12 17:50	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/07/12 17:50	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/07/12 17:50	PER	7440-43-9	
Chromium	4.85	mg/kg	0.20	6020	06/07/12 17:50	PER	7440-47-3	
Cobalt	3.21	mg/kg	0.20	6020	06/07/12 17:50	PER	7440-48-4	
Copper	8.19	mg/kg	0.20	6020	06/07/12 17:50	PER	7440-50-8	
Lead	3.49	mg/kg	0.20	6020	06/07/12 17:50	PER	7439-92-1	
Manganese	230	mg/kg	0.20	6020	06/07/12 17:50	PER	7439-96-5	
Mercury	0.0100	mg/kg	0.0055	7471A	06/07/12 15:04	JRT	7439-97-6	
Nickel	9.83	mg/kg	0.20	6020	06/07/12 17:50	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/07/12 17:50	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/07/12 17:50	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/07/12 17:50	PER	7440-28-0	
Vanadium	7.61	mg/kg	0.20	6020	06/07/12 17:50	PER	7440-62-2	
Zinc	16.4	mg/kg	1.0	6020	06/07/12 17:50	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 15:55	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	191-24-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.04 (continued)

Sample Tag: SB-A2-PB67_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/08/12 15:55	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 15:55	JGH	84-66-2	
Dimethyl phthalate	60	ug/kg	40	8270C	06/08/12 15:55	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/08/12 15:55	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/08/12 15:55	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 15:55	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.04 (continued)

Sample Tag: SB-A2-PB67_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 15:55	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/07/12 19:39	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	76-13-1	
Acetone	Not detected	ug/kg	580	5035/8260B	06/07/12 19:39	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	580	5035/8260B	06/07/12 19:39	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	580	5035/8260B	06/07/12 19:39	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	75-69-4	
1,1-Dichloroethene	60	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	67-66-3	
1,1,1-Trichloroethane	1,930	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	580	5035/8260B	06/07/12 19:39	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	580	5035/8260B	06/07/12 19:39	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	79-00-5	
Tetrachloroethene	310	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/07/12 19:39	WAT		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.04 (continued)

Sample Tag: SB-A2-PB67_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 19:39	WAT	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.05

Sample Tag: SB-A2-PB67_16-17 MS

Collected Date/Time: 06/04/2012 11:20

Matrix: Soil

COC Reference: 69057

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 01:52	EMR		
Mercury Digestion	Completed			7471A	06/07/12 11:00	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:30	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	06/05/12 15:00	WAR		
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Metals

Antimony	20.2	mg/kg	0.20	6020	06/07/12 17:58	PER	7440-36-0	
Arsenic	23.2	mg/kg	0.10	6020	06/07/12 17:58	PER	7440-38-2	
Barium	38.9	mg/kg	1.0	6020	06/07/12 17:58	PER	7440-39-3	
Beryllium	20.6	mg/kg	0.20	6020	06/07/12 17:58	PER	7440-41-7	
Boron	17.8	mg/kg	4.1	6020	06/07/12 17:58	PER	7440-42-8	
Cadmium	21.3	mg/kg	0.10	6020	06/07/12 17:58	PER	7440-43-9	
Chromium	28.9	mg/kg	0.20	6020	06/07/12 17:58	PER	7440-47-3	
Cobalt	25.0	mg/kg	0.20	6020	06/07/12 17:58	PER	7440-48-4	
Copper	28.8	mg/kg	0.20	6020	06/07/12 17:58	PER	7440-50-8	
Lead	22.7	mg/kg	0.20	6020	06/07/12 17:58	PER	7439-92-1	
Manganese	248	mg/kg	0.20	6020	06/07/12 17:58	PER	7439-96-5	
Mercury	0.1241	mg/kg	0.0055	7471A	06/07/12 15:06	JRT	7439-97-6	
Nickel	30.4	mg/kg	0.20	6020	06/07/12 17:58	PER	7440-02-0	
Selenium	18.9	mg/kg	0.20	6020	06/07/12 17:58	PER	7782-49-2	
Silver	20.0	mg/kg	0.10	6020	06/07/12 17:58	PER	7440-22-4	
Thallium	18.7	mg/kg	0.20	6020	06/07/12 17:58	PER	7440-28-0	
Vanadium	32.5	mg/kg	0.20	6020	06/07/12 17:58	PER	7440-62-2	
Zinc	36.0	mg/kg	1.0	6020	06/07/12 17:58	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,520	ug/kg	40	8270C	06/08/12 16:24	JGH	83-32-9	1
Acenaphthylene	1,630	ug/kg	40	8270C	06/08/12 16:24	JGH	208-96-8	1
Acetophenone	1,370	ug/kg	40	8270C	06/08/12 16:24	JGH	98-86-2	1
Anthracene	1,500	ug/kg	40	8270C	06/08/12 16:24	JGH	120-12-7	1
Atrazine	1,630	ug/kg	40	8270C	06/08/12 16:24	JGH	1912-24-9	1
1,1'-Biphenyl	1,470	ug/kg	40	8270C	06/08/12 16:24	JGH	92-52-4	1
4-Bromophenyl phenyl ether	1,540	ug/kg	40	8270C	06/08/12 16:24	JGH	101-55-3	1
di-n-Butyl phthalate	1,460	ug/kg	70	8270C	06/08/12 16:24	JGH	84-74-2	1B
Benzaldehyde	1,190	ug/kg	40	8270C	06/08/12 16:24	JGH	100-52-7	1
Benzo(a)anthracene	1,670	ug/kg	40	8270C	06/08/12 16:24	JGH	56-55-3	1
Benzo(a)pyrene	1,490	ug/kg	40	8270C	06/08/12 16:24	JGH	50-32-8	1

1-Spiked at 1.67mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.05 (continued)

Sample Tag: SB-A2-PB67_16-17 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(b)fluoranthene	1,650	ug/kg	40	8270C	06/08/12 16:24	JGH	205-99-2	1
Benzo(ghi)perylene	1,840	ug/kg	40	8270C	06/08/12 16:24	JGH	191-24-2	1
Benzo(k)fluoranthene	1,550	ug/kg	40	8270C	06/08/12 16:24	JGH	207-08-9	1
Butyl benzyl phthalate	1,550	ug/kg	40	8270C	06/08/12 16:24	JGH	85-68-7	1
2-Chloronaphthalene	1,480	ug/kg	40	8270C	06/08/12 16:24	JGH	91-58-7	1
2-Chlorophenol	1,290	ug/kg	40	8270C	06/08/12 16:24	JGH	95-57-8	1
4-Chloro-3-methylphenol	1,460	ug/kg	40	8270C	06/08/12 16:24	JGH	59-50-7	1
4-Chloroaniline	650	ug/kg	40	8270C	06/08/12 16:24	JGH	106-47-8	1
4-Chlorophenyl phenyl ether	2,010	ug/kg	40	8270C	06/08/12 16:24	JGH	7005-72-3	1
Caprolactam	1,560	ug/kg	40	8270C	06/08/12 16:24	JGH	105-60-2	1
Carbazole	1,610	ug/kg	40	8270C	06/08/12 16:24	JGH	86-74-8	1
bis(2-Chloroethoxy)methane	1,270	ug/kg	40	8270C	06/08/12 16:24	JGH	111-91-1	1
bis(2-Chloroethyl)ether	1,240	ug/kg	40	8270C	06/08/12 16:24	JGH	111-44-4	1
bis(2-Chloroisopropyl)ether	1,230	ug/kg	40	8270C	06/08/12 16:24	JGH	108-60-1	1
Chrysene	1,580	ug/kg	40	8270C	06/08/12 16:24	JGH	218-01-9	1
2,4-Dichlorophenol	1,400	ug/kg	40	8270C	06/08/12 16:24	JGH	120-83-2	1
2,4-Dimethylphenol	1,270	ug/kg	40	8270C	06/08/12 16:24	JGH	105-67-9	1
2,4-Dinitrophenol	1,040	ug/kg	40	8270C	06/08/12 16:24	JGH	51-28-5	1
2,4-Dinitrotoluene	1,520	ug/kg	40	8270C	06/08/12 16:24	JGH	121-14-2	1
2,6-Dinitrotoluene	1,740	ug/kg	40	8270C	06/08/12 16:24	JGH	606-20-2	1
3,3'-Dichlorobenzidine	1,480	ug/kg	40	8270C	06/08/12 16:24	JGH	91-94-1	1
4,6-Dinitro-2-methylphenol	1,260	ug/kg	40	8270C	06/08/12 16:24	JGH	534-52-1	1
Dibenzo(ah)anthracene	1,940	ug/kg	70	8270C	06/08/12 16:24	JGH	53-70-3	1
Dibenzofuran	1,560	ug/kg	40	8270C	06/08/12 16:24	JGH	132-64-9	1
Diethyl phthalate	1,600	ug/kg	70	8270C	06/08/12 16:24	JGH	84-66-2	1
Dimethyl phthalate	1,630	ug/kg	40	8270C	06/08/12 16:24	JGH	131-11-3	1B
bis(2-Ethylhexyl)phthalate	1,590	ug/kg	70	8270C	06/08/12 16:24	JGH	117-81-7	1
Fluoranthene	1,590	ug/kg	40	8270C	06/08/12 16:24	JGH	206-44-0	1
Fluorene	1,920	ug/kg	40	8270C	06/08/12 16:24	JGH	86-73-7	1
Hexachlorobenzene	1,530	ug/kg	40	8270C	06/08/12 16:24	JGH	118-74-1	1
Hexachlorobutadiene	1,170	ug/kg	40	8270C	06/08/12 16:24	JGH	87-68-3	1
Hexachlorocyclopentadiene	1,040	ug/kg	40	8270C	06/08/12 16:24	JGH	77-47-4	1
Hexachloroethane	1,180	ug/kg	40	8270C	06/08/12 16:24	JGH	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,840	ug/kg	40	8270C	06/08/12 16:24	JGH	193-39-5	1
Isophorone	1,370	ug/kg	40	8270C	06/08/12 16:24	JGH	78-59-1	1
2-Methylnaphthalene	1,370	ug/kg	40	8270C	06/08/12 16:24	JGH	91-57-6	1
2-Methylphenol	1,390	ug/kg	40	8270C	06/08/12 16:24	JGH	95-48-7	1
3-, 4-Methylphenol	1,680	ug/kg	70	8270C	06/08/12 16:24	JGH	3/4-Cresol	1
2-Nitroaniline	1,560	ug/kg	40	8270C	06/08/12 16:24	JGH	88-74-4	1
2-Nitrophenol	1,270	ug/kg	40	8270C	06/08/12 16:24	JGH	88-75-5	1
3-Nitroaniline	1,360	ug/kg	40	8270C	06/08/12 16:24	JGH	99-09-2	1
4-Nitroaniline	1,610	ug/kg	40	8270C	06/08/12 16:24	JGH	100-01-6	1
4-Nitrophenol	1,370	ug/kg	40	8270C	06/08/12 16:24	JGH	100-02-7	1
N-Nitrosodi-n-propylamine	1,400	ug/kg	40	8270C	06/08/12 16:24	JGH	621-64-7	1
N-Nitrosodiphenylamine	1,160	ug/kg	40	8270C	06/08/12 16:24	JGH	86-30-6	1
Naphthalene	1,300	ug/kg	40	8270C	06/08/12 16:24	JGH	91-20-3	1
Nitrobenzene	1,240	ug/kg	40	8270C	06/08/12 16:24	JGH	98-95-3	1

1-Spiked at 1.67mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.05 (continued)

Sample Tag: SB-A2-PB67_16-17 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
di-n-Octyl phthalate	1,640	ug/kg	70	8270C	06/08/12 16:24	JGH	117-84-0	1
Pentachlorophenol	1,240	ug/kg	40	8270C	06/08/12 16:24	JGH	87-86-5	1
Phenanthrene	1,510	ug/kg	40	8270C	06/08/12 16:24	JGH	85-01-8	1
Phenol	1,380	ug/kg	40	8270C	06/08/12 16:24	JGH	108-95-2	1
Pyrene	1,590	ug/kg	40	8270C	06/08/12 16:24	JGH	129-00-0	1
2,4,5-Trichlorophenol	1,550	ug/kg	40	8270C	06/08/12 16:24	JGH	95-95-4	1
2,4,6-Trichlorophenol	1,450	ug/kg	40	8270C	06/08/12 16:24	JGH	88-06-2	1
Organics - Volatiles								
1,4-Dioxane	24,000	ug/kg	6,000	8260B	06/07/12 21:36	WAT	123-91-1	2
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	2,980	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	76-13-1	3
Acetone	2,940	ug/kg	610	5035/8260B	06/07/12 21:36	WAT	67-64-1	3
Carbon disulfide	2,480	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	75-15-0	3
Methyl Acetate	2,400	ug/kg	610	5035/8260B	06/07/12 21:36	WAT	79-20-9	3
tert-Methyl butyl ether (MTBE)	2,570	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	1634-04-4	3
2-Butanone (MEK)	2,880	ug/kg	610	5035/8260B	06/07/12 21:36	WAT	78-93-3	3
Dichlorodifluoromethane	2,130	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	75-71-8	3
Chloromethane	2,650	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	74-87-3	3
Vinyl chloride	2,730	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	75-01-4	3
Bromomethane	2,650	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	74-83-9	3
Chloroethane	2,850	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	75-00-3	3
Trichlorofluoromethane	2,940	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	75-69-4	3
1,1-Dichloroethene	2,940	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	75-35-4	3
Methylene chloride	2,650	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	75-09-2	3
trans-1,2-Dichloroethene	2,840	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	156-60-5	3
1,1-Dichloroethane	2,830	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	75-34-3	3
cis-1,2-Dichloroethene	2,810	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	156-59-2	3
Chloroform	2,780	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	67-66-3	3
1,1,1-Trichloroethane	4,410	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	71-55-6	3
Cyclohexane	2,360	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	110-82-7	3
4-Methyl-2-pentanone (MIBK)	2,380	ug/kg	610	5035/8260B	06/07/12 21:36	WAT	108-10-1	3
2-Hexanone	2,640	ug/kg	610	5035/8260B	06/07/12 21:36	WAT	591-78-6	3
Carbon tetrachloride	2,950	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	56-23-5	3
Benzene	2,850	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	71-43-2	3
1,2-Dichloroethane	2,680	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	107-06-2	3
Trichloroethene	2,850	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	79-01-6	3
1,2-Dichloropropane	2,820	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	78-87-5	3
Bromodichloromethane	2,810	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	75-27-4	3
Methyl cyclohexane	3,020	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	108-87-2	3
cis-1,3-Dichloropropene	2,840	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	10061-01-5	3
Toluene	2,880	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	108-88-3	3
trans-1,3-Dichloropropene	2,800	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	10061-02-6	3
1,1,2-Trichloroethane	2,670	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	79-00-5	3
Tetrachloroethene	3,020	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	127-18-4	3

1-Spiked at 1.67mg/kg

2-Spiked at 20mg/kg

3-Spiked at 2.5mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.05 (continued)

Sample Tag: SB-A2-PB67_16-17 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Dibromochloromethane	2,750	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	124-48-1	1
1,2-Dibromoethane	2,670	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	106-93-4	1
Chlorobenzene	2,790	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	108-90-7	1
1,1,2,2-Tetrachloroethane	2,610	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	79-34-5	1
Ethylbenzene	2,940	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	100-41-4	1
p,m-Xylene	5,900	ug/kg	100	5035/8260B	06/07/12 21:36	WAT		1
o-Xylene	2,950	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	95-47-6	1
Styrene	2,950	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	100-42-5	1
Isopropylbenzene	2,960	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	98-82-8	1
Bromoform	2,460	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	75-25-2	1
1,3-Dichlorobenzene	2,820	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	541-73-1	1
1,4-Dichlorobenzene	2,710	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	106-46-7	1
1,2-Dichlorobenzene	2,700	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	95-50-1	1
1,2-Dibromo-3-chloropropane	2,350	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	96-12-8	1
1,2,4-Trichlorobenzene	2,650	ug/kg	60	5035/8260B	06/07/12 21:36	WAT	120-82-1	1

1-Spiked at 2.5mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.06

Sample Tag: SB-A2-PB67_16-17 MSD

Collected Date/Time: 06/04/2012 11:20

Matrix: Soil

COC Reference: 69057

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 01:52	EMR		
Mercury Digestion	Completed			7471A	06/07/12 11:00	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:30	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	06/05/12 15:00	WAR		
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Metals

Antimony	20.4	mg/kg	0.20	6020	06/07/12 18:00	PER	7440-36-0	
Arsenic	23.1	mg/kg	0.10	6020	06/07/12 18:00	PER	7440-38-2	
Barium	39.0	mg/kg	1.0	6020	06/07/12 18:00	PER	7440-39-3	
Beryllium	20.7	mg/kg	0.20	6020	06/07/12 18:00	PER	7440-41-7	
Boron	18.3	mg/kg	4.1	6020	06/07/12 18:00	PER	7440-42-8	
Cadmium	21.1	mg/kg	0.10	6020	06/07/12 18:00	PER	7440-43-9	
Chromium	29.1	mg/kg	0.20	6020	06/07/12 18:00	PER	7440-47-3	
Cobalt	25.2	mg/kg	0.20	6020	06/07/12 18:00	PER	7440-48-4	
Copper	28.2	mg/kg	0.20	6020	06/07/12 18:00	PER	7440-50-8	
Lead	22.4	mg/kg	0.20	6020	06/07/12 18:00	PER	7439-92-1	
Manganese	246	mg/kg	0.20	6020	06/07/12 18:00	PER	7439-96-5	
Mercury	0.1252	mg/kg	0.0055	7471A	06/07/12 15:09	JRT	7439-97-6	
Nickel	30.0	mg/kg	0.20	6020	06/07/12 18:00	PER	7440-02-0	
Selenium	18.6	mg/kg	0.20	6020	06/07/12 18:00	PER	7782-49-2	
Silver	20.3	mg/kg	0.10	6020	06/07/12 18:00	PER	7440-22-4	
Thallium	18.4	mg/kg	0.20	6020	06/07/12 18:00	PER	7440-28-0	
Vanadium	33.2	mg/kg	0.20	6020	06/07/12 18:00	PER	7440-62-2	
Zinc	36.0	mg/kg	1.0	6020	06/07/12 18:00	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,290	ug/kg	40	8270C	06/08/12 16:53	JGH	83-32-9	1
Acenaphthylene	1,400	ug/kg	40	8270C	06/08/12 16:53	JGH	208-96-8	1
Acetophenone	1,160	ug/kg	40	8270C	06/08/12 16:53	JGH	98-86-2	1
Anthracene	1,250	ug/kg	40	8270C	06/08/12 16:53	JGH	120-12-7	1
Atrazine	1,380	ug/kg	40	8270C	06/08/12 16:53	JGH	1912-24-9	1
1,1'-Biphenyl	1,250	ug/kg	40	8270C	06/08/12 16:53	JGH	92-52-4	1
4-Bromophenyl phenyl ether	1,310	ug/kg	40	8270C	06/08/12 16:53	JGH	101-55-3	1
di-n-Butyl phthalate	1,230	ug/kg	70	8270C	06/08/12 16:53	JGH	84-74-2	1B
Benzaldehyde	1,020	ug/kg	40	8270C	06/08/12 16:53	JGH	100-52-7	1
Benzo(a)anthracene	1,360	ug/kg	40	8270C	06/08/12 16:53	JGH	56-55-3	1
Benzo(a)pyrene	1,210	ug/kg	40	8270C	06/08/12 16:53	JGH	50-32-8	1

1-Spiked at 1.67mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.06 (continued)

Sample Tag: SB-A2-PB67_16-17 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(b)fluoranthene	1,320	ug/kg	40	8270C	06/08/12 16:53	JGH	205-99-2	1
Benzo(ghi)perylene	1,480	ug/kg	40	8270C	06/08/12 16:53	JGH	191-24-2	1
Benzo(k)fluoranthene	1,280	ug/kg	40	8270C	06/08/12 16:53	JGH	207-08-9	1
Butyl benzyl phthalate	1,270	ug/kg	40	8270C	06/08/12 16:53	JGH	85-68-7	1
2-Chloronaphthalene	1,280	ug/kg	40	8270C	06/08/12 16:53	JGH	91-58-7	1
2-Chlorophenol	1,100	ug/kg	40	8270C	06/08/12 16:53	JGH	95-57-8	1
4-Chloro-3-methylphenol	1,250	ug/kg	40	8270C	06/08/12 16:53	JGH	59-50-7	1
4-Chloroaniline	540	ug/kg	40	8270C	06/08/12 16:53	JGH	106-47-8	1
4-Chlorophenyl phenyl ether	1,720	ug/kg	40	8270C	06/08/12 16:53	JGH	7005-72-3	1
Caprolactam	1,310	ug/kg	40	8270C	06/08/12 16:53	JGH	105-60-2	1
Carbazole	1,370	ug/kg	40	8270C	06/08/12 16:53	JGH	86-74-8	1
bis(2-Chloroethoxy)methane	1,100	ug/kg	40	8270C	06/08/12 16:53	JGH	111-91-1	1
bis(2-Chloroethyl)ether	1,040	ug/kg	40	8270C	06/08/12 16:53	JGH	111-44-4	1
bis(2-Chloroisopropyl)ether	1,050	ug/kg	40	8270C	06/08/12 16:53	JGH	108-60-1	1
Chrysene	1,290	ug/kg	40	8270C	06/08/12 16:53	JGH	218-01-9	1
2,4-Dichlorophenol	1,220	ug/kg	40	8270C	06/08/12 16:53	JGH	120-83-2	1
2,4-Dimethylphenol	1,080	ug/kg	40	8270C	06/08/12 16:53	JGH	105-67-9	1
2,4-Dinitrophenol	810	ug/kg	40	8270C	06/08/12 16:53	JGH	51-28-5	1
2,4-Dinitrotoluene	1,300	ug/kg	40	8270C	06/08/12 16:53	JGH	121-14-2	1
2,6-Dinitrotoluene	1,500	ug/kg	40	8270C	06/08/12 16:53	JGH	606-20-2	1
3,3'-Dichlorobenzidine	1,160	ug/kg	40	8270C	06/08/12 16:53	JGH	91-94-1	1
4,6-Dinitro-2-methylphenol	1,070	ug/kg	40	8270C	06/08/12 16:53	JGH	534-52-1	1
Dibenzo(ah)anthracene	1,580	ug/kg	70	8270C	06/08/12 16:53	JGH	53-70-3	1
Dibenzofuran	1,320	ug/kg	40	8270C	06/08/12 16:53	JGH	132-64-9	1
Diethyl phthalate	1,340	ug/kg	70	8270C	06/08/12 16:53	JGH	84-66-2	1
Dimethyl phthalate	1,410	ug/kg	40	8270C	06/08/12 16:53	JGH	131-11-3	1B
bis(2-Ethylhexyl)phthalate	1,320	ug/kg	70	8270C	06/08/12 16:53	JGH	117-81-7	1
Fluoranthene	1,330	ug/kg	40	8270C	06/08/12 16:53	JGH	206-44-0	1
Fluorene	1,620	ug/kg	40	8270C	06/08/12 16:53	JGH	86-73-7	1
Hexachlorobenzene	1,260	ug/kg	40	8270C	06/08/12 16:53	JGH	118-74-1	1
Hexachlorobutadiene	1,030	ug/kg	40	8270C	06/08/12 16:53	JGH	87-68-3	1
Hexachlorocyclopentadiene	940	ug/kg	40	8270C	06/08/12 16:53	JGH	77-47-4	1
Hexachloroethane	1,010	ug/kg	40	8270C	06/08/12 16:53	JGH	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,500	ug/kg	40	8270C	06/08/12 16:53	JGH	193-39-5	1
Isophorone	1,180	ug/kg	40	8270C	06/08/12 16:53	JGH	78-59-1	1
2-Methylnaphthalene	1,180	ug/kg	40	8270C	06/08/12 16:53	JGH	91-57-6	1
2-Methylphenol	1,190	ug/kg	40	8270C	06/08/12 16:53	JGH	95-48-7	1
3-, 4-Methylphenol	1,410	ug/kg	70	8270C	06/08/12 16:53	JGH	3/4-Cresol	1
2-Nitroaniline	1,320	ug/kg	40	8270C	06/08/12 16:53	JGH	88-74-4	1
2-Nitrophenol	1,100	ug/kg	40	8270C	06/08/12 16:53	JGH	88-75-5	1
3-Nitroaniline	1,150	ug/kg	40	8270C	06/08/12 16:53	JGH	99-09-2	1
4-Nitroaniline	1,380	ug/kg	40	8270C	06/08/12 16:53	JGH	100-01-6	1
4-Nitrophenol	1,090	ug/kg	40	8270C	06/08/12 16:53	JGH	100-02-7	1
N-Nitrosodi-n-propylamine	1,190	ug/kg	40	8270C	06/08/12 16:53	JGH	621-64-7	1
N-Nitrosodiphenylamine	980	ug/kg	40	8270C	06/08/12 16:53	JGH	86-30-6	1
Naphthalene	1,130	ug/kg	40	8270C	06/08/12 16:53	JGH	91-20-3	1
Nitrobenzene	1,050	ug/kg	40	8270C	06/08/12 16:53	JGH	98-95-3	1

1-Spiked at 1.67mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.06 (continued)

Sample Tag: SB-A2-PB67_16-17 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
di-n-Octyl phthalate	1,340	ug/kg	70	8270C	06/08/12 16:53	JGH	117-84-0	1
Pentachlorophenol	1,060	ug/kg	40	8270C	06/08/12 16:53	JGH	87-86-5	1
Phenanthrene	1,270	ug/kg	40	8270C	06/08/12 16:53	JGH	85-01-8	1
Phenol	1,160	ug/kg	40	8270C	06/08/12 16:53	JGH	108-95-2	1
Pyrene	1,310	ug/kg	40	8270C	06/08/12 16:53	JGH	129-00-0	1
2,4,5-Trichlorophenol	1,330	ug/kg	40	8270C	06/08/12 16:53	JGH	95-95-4	1
2,4,6-Trichlorophenol	1,250	ug/kg	40	8270C	06/08/12 16:53	JGH	88-06-2	1
Organics - Volatiles								
1,4-Dioxane	23,000	ug/kg	6,000	8260B	06/07/12 21:56	WAT	123-91-1	2
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	3,850	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	76-13-1	3
Acetone	3,580	ug/kg	620	5035/8260B	06/07/12 21:56	WAT	67-64-1	3
Carbon disulfide	3,210	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	75-15-0	3
Methyl Acetate	2,950	ug/kg	620	5035/8260B	06/07/12 21:56	WAT	79-20-9	3
tert-Methyl butyl ether (MTBE)	3,160	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	1634-04-4	3
2-Butanone (MEK)	3,610	ug/kg	620	5035/8260B	06/07/12 21:56	WAT	78-93-3	3
Dichlorodifluoromethane	2,760	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	75-71-8	3
Chloromethane	3,320	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	74-87-3	3
Vinyl chloride	3,530	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	75-01-4	3
Bromomethane	3,380	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	74-83-9	3
Chloroethane	3,590	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	75-00-3	3
Trichlorofluoromethane	3,870	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	75-69-4	3
1,1-Dichloroethene	3,660	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	75-35-4	3
Methylene chloride	3,220	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	75-09-2	3
trans-1,2-Dichloroethene	3,490	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	156-60-5	3
1,1-Dichloroethane	3,490	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	75-34-3	3
cis-1,2-Dichloroethene	3,470	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	156-59-2	3
Chloroform	3,460	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	67-66-3	3
1,1,1-Trichloroethane	5,710	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	71-55-6	3
Cyclohexane	2,970	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	110-82-7	3
4-Methyl-2-pentanone (MIBK)	2,960	ug/kg	620	5035/8260B	06/07/12 21:56	WAT	108-10-1	3
2-Hexanone	3,260	ug/kg	620	5035/8260B	06/07/12 21:56	WAT	591-78-6	3
Carbon tetrachloride	3,780	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	56-23-5	3
Benzene	3,620	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	71-43-2	3
1,2-Dichloroethane	3,370	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	107-06-2	3
Trichloroethene	3,650	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	79-01-6	3
1,2-Dichloropropane	3,520	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	78-87-5	3
Bromodichloromethane	3,570	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	75-27-4	3
Methyl cyclohexane	3,890	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	108-87-2	3
cis-1,3-Dichloropropene	3,580	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	10061-01-5	3
Toluene	3,640	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	108-88-3	3
trans-1,3-Dichloropropene	3,510	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	10061-02-6	3
1,1,2-Trichloroethane	3,280	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	79-00-5	3
Tetrachloroethene	3,780	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	127-18-4	3

1-Spiked at 1.67mg/kg

2-Spiked at 20mg/kg

3-Spiked at 2.5mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.06 (continued)

Sample Tag: SB-A2-PB67_16-17 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Dibromochloromethane	3,540	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	124-48-1	1
1,2-Dibromoethane	3,370	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	106-93-4	1
Chlorobenzene	3,540	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	108-90-7	1
1,1,2,2-Tetrachloroethane	3,310	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	79-34-5	1
Ethylbenzene	3,750	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	100-41-4	1
p,m-Xylene	7,500	ug/kg	100	5035/8260B	06/07/12 21:56	WAT		1
o-Xylene	3,710	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	95-47-6	1
Styrene	3,680	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	100-42-5	1
Isopropylbenzene	3,810	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	98-82-8	1
Bromoform	3,170	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	75-25-2	1
1,3-Dichlorobenzene	3,630	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	541-73-1	1
1,4-Dichlorobenzene	3,510	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	106-46-7	1
1,2-Dichlorobenzene	3,530	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	95-50-1	1
1,2-Dibromo-3-chloropropane	3,250	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	96-12-8	1
1,2,4-Trichlorobenzene	3,600	ug/kg	60	5035/8260B	06/07/12 21:56	WAT	120-82-1	1

1-Spiked at 2.5mg/kg



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.07
Sample Tag: SB-A2-PA65_1-2
Collected Date/Time: 06/04/2012 12:02
Matrix: Soil
COC Reference: 69057

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 01:52	EMR		
Mercury Digestion	Completed			7471A	06/07/12 11:00	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:30	PER		

Inorganics

Total Solids	84	%	1	Std M 2540 B	06/05/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/07/12 18:18	PER	7440-36-0	
Arsenic	53.2	mg/kg	0.10	6020	06/07/12 18:18	PER	7440-38-2	
Barium	42.2	mg/kg	1.0	6020	06/07/12 18:18	PER	7440-39-3	
Beryllium	0.25	mg/kg	0.21	6020	06/07/12 18:18	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/07/12 18:18	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	06/07/12 18:18	PER	7440-43-9	
Chromium	6.12	mg/kg	0.21	6020	06/07/12 18:18	PER	7440-47-3	
Cobalt	5.36	mg/kg	0.21	6020	06/07/12 18:18	PER	7440-48-4	
Copper	5.76	mg/kg	0.21	6020	06/07/12 18:18	PER	7440-50-8	
Lead	5.92	mg/kg	0.21	6020	06/07/12 18:18	PER	7439-92-1	
Manganese	353	mg/kg	0.21	6020	06/07/12 18:18	PER	7439-96-5	
Mercury	0.0283	mg/kg	0.0059	7471A	06/07/12 14:51	JRT	7439-97-6	
Nickel	9.43	mg/kg	0.21	6020	06/07/12 18:18	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/07/12 18:18	PER	7782-49-2	
Silver	0.12	mg/kg	0.10	6020	06/07/12 18:18	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/07/12 18:18	PER	7440-28-0	
Vanadium	9.41	mg/kg	0.21	6020	06/07/12 18:18	PER	7440-62-2	
Zinc	16.9	mg/kg	1.0	6020	06/07/12 18:18	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 17:23	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	191-24-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.07 (continued)

Sample Tag: SB-A2-PA65_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/08/12 17:23	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 17:23	JGH	84-66-2	
Dimethyl phthalate	130	ug/kg	40	8270C	06/08/12 17:23	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/08/12 17:23	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/08/12 17:23	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 17:23	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.07 (continued)

Sample Tag: SB-A2-PA65_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 17:23	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/07/12 19:58	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	76-13-1	
Acetone	Not detected	ug/kg	740	5035/8260B	06/07/12 19:58	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	740	5035/8260B	06/07/12 19:58	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	740	5035/8260B	06/07/12 19:58	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	740	5035/8260B	06/07/12 19:58	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	740	5035/8260B	06/07/12 19:58	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	79-00-5	
Tetrachloroethene	130	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/07/12 19:58	WAT		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.07 (continued)

Sample Tag: SB-A2-PA65_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/07/12 19:58	WAT	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.08
Sample Tag: SB-A2-PA65_9.5-10.5
Collected Date/Time: 06/04/2012 12:18
Matrix: Soil
COC Reference: 69057

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 01:52	EMR		
Mercury Digestion	Completed			7471A	06/07/12 11:00	JRH		
Metal Digestion	Completed			3050B	06/07/12 12:30	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	06/05/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/07/12 18:20	PER	7440-36-0	
Arsenic	0.78	mg/kg	0.10	6020	06/07/12 18:20	PER	7440-38-2	
Barium	6.97	mg/kg	1.0	6020	06/07/12 18:20	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/07/12 18:20	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/07/12 18:20	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/07/12 18:20	PER	7440-43-9	
Chromium	1.62	mg/kg	0.20	6020	06/07/12 18:20	PER	7440-47-3	
Cobalt	0.59	mg/kg	0.20	6020	06/07/12 18:20	PER	7440-48-4	
Copper	2.20	mg/kg	0.20	6020	06/07/12 18:20	PER	7440-50-8	
Lead	1.34	mg/kg	0.20	6020	06/07/12 18:20	PER	7439-92-1	
Manganese	99.3	mg/kg	0.20	6020	06/07/12 18:20	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0057	7471A	06/07/12 14:53	JRT	7439-97-6	
Nickel	2.35	mg/kg	0.20	6020	06/07/12 18:20	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/07/12 18:20	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/07/12 18:20	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/07/12 18:20	PER	7440-28-0	
Vanadium	2.40	mg/kg	0.20	6020	06/07/12 18:20	PER	7440-62-2	
Zinc	5.61	mg/kg	1.0	6020	06/07/12 18:20	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 17:52	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	191-24-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.08 (continued)

Sample Tag: SB-A2-PA65_9.5-10.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/08/12 17:52	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 17:52	JGH	84-66-2	
Dimethyl phthalate	140	ug/kg	40	8270C	06/08/12 17:52	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/08/12 17:52	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/08/12 17:52	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 17:52	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.08 (continued)

Sample Tag: SB-A2-PA65_9.5-10.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 17:52	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/07/12 20:18	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	76-13-1	
Acetone	Not detected	ug/kg	710	5035/8260B	06/07/12 20:18	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	710	5035/8260B	06/07/12 20:18	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	710	5035/8260B	06/07/12 20:18	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	710	5035/8260B	06/07/12 20:18	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	710	5035/8260B	06/07/12 20:18	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/07/12 20:18	WAT		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.08 (continued)

Sample Tag: SB-A2-PA65_9.5-10.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/07/12 20:18	WAT	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.09
Sample Tag: SB-A2-PA65_16-17
Collected Date/Time: 06/04/2012 12:30
Matrix: Soil
COC Reference: 69057

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 01:52	EMR		
Mercury Digestion	Completed			7471A	06/07/12 11:00	JRH		
Metal Digestion	Completed			3050B	06/07/12 13:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	06/05/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/08/12 12:00	PER	7440-36-0	
Arsenic	1.39	mg/kg	0.10	6020	06/08/12 12:00	PER	7440-38-2	
Barium	15.4	mg/kg	1.0	6020	06/08/12 12:00	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/08/12 12:00	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/08/12 12:00	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/08/12 12:00	PER	7440-43-9	
Chromium	5.26	mg/kg	0.20	6020	06/08/12 12:00	PER	7440-47-3	
Cobalt	3.22	mg/kg	0.20	6020	06/08/12 12:00	PER	7440-48-4	
Copper	8.54	mg/kg	0.20	6020	06/08/12 12:00	PER	7440-50-8	
Lead	3.60	mg/kg	0.20	6020	06/08/12 12:00	PER	7439-92-1	
Manganese	191	mg/kg	0.20	6020	06/08/12 12:00	PER	7439-96-5	
Mercury	0.0066	mg/kg	0.0054	7471A	06/07/12 15:36	JRT	7439-97-6	
Nickel	8.77	mg/kg	0.20	6020	06/08/12 12:00	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/08/12 12:00	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/08/12 12:00	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/08/12 12:00	PER	7440-28-0	
Vanadium	6.96	mg/kg	0.20	6020	06/08/12 12:00	PER	7440-62-2	
Zinc	18.1	mg/kg	1.0	6020	06/08/12 12:00	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 18:21	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	191-24-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.09 (continued)

Sample Tag: SB-A2-PA65_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/08/12 18:21	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 18:21	JGH	84-66-2	
Dimethyl phthalate	130	ug/kg	40	8270C	06/08/12 18:21	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/08/12 18:21	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/08/12 18:21	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 18:21	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.09 (continued)

Sample Tag: SB-A2-PA65_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 18:21	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/07/12 20:37	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	76-13-1	Y
Acetone	Not detected	ug/kg	2,800	5035/8260B	06/11/12 17:20	WAT	67-64-1	Y
Carbon disulfide	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	75-15-0	Y
Methyl Acetate	Not detected	ug/kg	2,800	5035/8260B	06/11/12 17:20	WAT	79-20-9	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	1634-04-4	Y
2-Butanone (MEK)	Not detected	ug/kg	2,800	5035/8260B	06/11/12 17:20	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	75-71-8	Y
Chloromethane	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	75-01-4	Y
Bromomethane	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	74-83-9	Y
Chloroethane	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	156-59-2	Y
Chloroform	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	67-66-3	Y
1,1,1-Trichloroethane	600	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	71-55-6	Y
Cyclohexane	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	110-82-7	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	2,800	5035/8260B	06/11/12 17:20	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/kg	2,800	5035/8260B	06/11/12 17:20	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	56-23-5	Y
Benzene	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	75-27-4	Y
Methyl cyclohexane	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	108-87-2	Y
cis-1,3-Dichloropropene	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	10061-01-5	Y
Toluene	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	79-00-5	Y
Tetrachloroethene	15,300	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	127-18-4	Y
Dibromochloromethane	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	124-48-1	Y
1,2-Dibromoethane	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	108-90-7	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	79-34-5	Y
Ethylbenzene	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	100-41-4	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.09 (continued)

Sample Tag: SB-A2-PA65_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
p,m-Xylene	Not detected	ug/kg	600	5035/8260B	06/11/12 17:20	WAT		Y
o-Xylene	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	95-47-6	Y
Styrene	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	98-82-8	Y
Bromoform	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	75-25-2	Y
1,3-Dichlorobenzene	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	95-50-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/kg	300	5035/8260B	06/11/12 17:20	WAT	120-82-1	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.10

Sample Tag: SB-A2-PA65_16-17 MS

Collected Date/Time: 06/04/2012 12:30

Matrix: Soil

COC Reference: 69057

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 01:52	EMR		
Mercury Digestion	Completed			7471A	06/07/12 11:00	JRH		
Metal Digestion	Completed			3050B	06/07/12 13:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	06/05/12 15:00	WAR		
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Metals

Antimony	19.9	mg/kg	0.20	6020	06/08/12 12:07	PER	7440-36-0	
Arsenic	22.5	mg/kg	0.10	6020	06/08/12 12:07	PER	7440-38-2	
Barium	36.5	mg/kg	1.0	6020	06/08/12 12:07	PER	7440-39-3	
Beryllium	21.6	mg/kg	0.20	6020	06/08/12 12:07	PER	7440-41-7	
Boron	21.8	mg/kg	4.1	6020	06/08/12 12:07	PER	7440-42-8	
Cadmium	21.4	mg/kg	0.10	6020	06/08/12 12:07	PER	7440-43-9	
Chromium	27.6	mg/kg	0.20	6020	06/08/12 12:07	PER	7440-47-3	
Cobalt	23.8	mg/kg	0.20	6020	06/08/12 12:07	PER	7440-48-4	
Copper	28.0	mg/kg	0.20	6020	06/08/12 12:07	PER	7440-50-8	
Lead	23.4	mg/kg	0.20	6020	06/08/12 12:07	PER	7439-92-1	
Manganese	210	mg/kg	0.20	6020	06/08/12 12:07	PER	7439-96-5	
Mercury	0.1276	mg/kg	0.0055	7471A	06/07/12 15:38	JRT	7439-97-6	
Nickel	28.7	mg/kg	0.20	6020	06/08/12 12:07	PER	7440-02-0	
Selenium	18.3	mg/kg	0.20	6020	06/08/12 12:07	PER	7782-49-2	
Silver	20.1	mg/kg	0.10	6020	06/08/12 12:07	PER	7440-22-4	
Thallium	18.3	mg/kg	0.20	6020	06/08/12 12:07	PER	7440-28-0	
Vanadium	29.6	mg/kg	0.20	6020	06/08/12 12:07	PER	7440-62-2	
Zinc	37.1	mg/kg	1.0	6020	06/08/12 12:07	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,400	ug/kg	40	8270C	06/08/12 18:51	JGH	83-32-9	1
Acenaphthylene	1,510	ug/kg	40	8270C	06/08/12 18:51	JGH	208-96-8	1
Acetophenone	1,260	ug/kg	40	8270C	06/08/12 18:51	JGH	98-86-2	1
Anthracene	1,340	ug/kg	40	8270C	06/08/12 18:51	JGH	120-12-7	1
Atrazine	1,470	ug/kg	40	8270C	06/08/12 18:51	JGH	1912-24-9	1
1,1'-Biphenyl	1,370	ug/kg	40	8270C	06/08/12 18:51	JGH	92-52-4	1
4-Bromophenyl phenyl ether	1,400	ug/kg	40	8270C	06/08/12 18:51	JGH	101-55-3	1
di-n-Butyl phthalate	1,310	ug/kg	70	8270C	06/08/12 18:51	JGH	84-74-2	1B
Benzaldehyde	1,100	ug/kg	40	8270C	06/08/12 18:51	JGH	100-52-7	1
Benzo(a)anthracene	1,500	ug/kg	40	8270C	06/08/12 18:51	JGH	56-55-3	1
Benzo(a)pyrene	1,330	ug/kg	40	8270C	06/08/12 18:51	JGH	50-32-8	1

1-Spiked at 1.67mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.10 (continued)

Sample Tag: SB-A2-PA65_16-17 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(b)fluoranthene	1,450	ug/kg	40	8270C	06/08/12 18:51	JGH	205-99-2	1
Benzo(ghi)perylene	1,630	ug/kg	40	8270C	06/08/12 18:51	JGH	191-24-2	1
Benzo(k)fluoranthene	1,390	ug/kg	40	8270C	06/08/12 18:51	JGH	207-08-9	1
Butyl benzyl phthalate	1,380	ug/kg	40	8270C	06/08/12 18:51	JGH	85-68-7	1
2-Chloronaphthalene	1,380	ug/kg	40	8270C	06/08/12 18:51	JGH	91-58-7	1
2-Chlorophenol	1,180	ug/kg	40	8270C	06/08/12 18:51	JGH	95-57-8	1
4-Chloro-3-methylphenol	1,310	ug/kg	40	8270C	06/08/12 18:51	JGH	59-50-7	1
4-Chloroaniline	580	ug/kg	40	8270C	06/08/12 18:51	JGH	106-47-8	1
4-Chlorophenyl phenyl ether	1,860	ug/kg	40	8270C	06/08/12 18:51	JGH	7005-72-3	1
Caprolactam	1,380	ug/kg	40	8270C	06/08/12 18:51	JGH	105-60-2	1
Carbazole	1,450	ug/kg	40	8270C	06/08/12 18:51	JGH	86-74-8	1
bis(2-Chloroethoxy)methane	1,170	ug/kg	40	8270C	06/08/12 18:51	JGH	111-91-1	1
bis(2-Chloroethyl)ether	1,140	ug/kg	40	8270C	06/08/12 18:51	JGH	111-44-4	1
bis(2-Chloroisopropyl)ether	1,140	ug/kg	40	8270C	06/08/12 18:51	JGH	108-60-1	1
Chrysene	1,390	ug/kg	40	8270C	06/08/12 18:51	JGH	218-01-9	1
2,4-Dichlorophenol	1,300	ug/kg	40	8270C	06/08/12 18:51	JGH	120-83-2	1
2,4-Dimethylphenol	1,150	ug/kg	40	8270C	06/08/12 18:51	JGH	105-67-9	1
2,4-Dinitrophenol	830	ug/kg	40	8270C	06/08/12 18:51	JGH	51-28-5	1
2,4-Dinitrotoluene	1,380	ug/kg	40	8270C	06/08/12 18:51	JGH	121-14-2	1
2,6-Dinitrotoluene	1,550	ug/kg	40	8270C	06/08/12 18:51	JGH	606-20-2	1
3,3'-Dichlorobenzidine	1,300	ug/kg	40	8270C	06/08/12 18:51	JGH	91-94-1	1
4,6-Dinitro-2-methylphenol	1,110	ug/kg	40	8270C	06/08/12 18:51	JGH	534-52-1	1
Dibenzo(ah)anthracene	1,720	ug/kg	70	8270C	06/08/12 18:51	JGH	53-70-3	1
Dibenzofuran	1,420	ug/kg	40	8270C	06/08/12 18:51	JGH	132-64-9	1
Diethyl phthalate	1,430	ug/kg	70	8270C	06/08/12 18:51	JGH	84-66-2	1
Dimethyl phthalate	1,440	ug/kg	40	8270C	06/08/12 18:51	JGH	131-11-3	1B
bis(2-Ethylhexyl)phthalate	1,420	ug/kg	70	8270C	06/08/12 18:51	JGH	117-81-7	1
Fluoranthene	1,430	ug/kg	40	8270C	06/08/12 18:51	JGH	206-44-0	1
Fluorene	1,740	ug/kg	40	8270C	06/08/12 18:51	JGH	86-73-7	1
Hexachlorobenzene	1,340	ug/kg	40	8270C	06/08/12 18:51	JGH	118-74-1	1
Hexachlorobutadiene	1,110	ug/kg	40	8270C	06/08/12 18:51	JGH	87-68-3	1
Hexachlorocyclopentadiene	960	ug/kg	40	8270C	06/08/12 18:51	JGH	77-47-4	1
Hexachloroethane	1,090	ug/kg	40	8270C	06/08/12 18:51	JGH	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,640	ug/kg	40	8270C	06/08/12 18:51	JGH	193-39-5	1
Isophorone	1,260	ug/kg	40	8270C	06/08/12 18:51	JGH	78-59-1	1
2-Methylnaphthalene	1,270	ug/kg	40	8270C	06/08/12 18:51	JGH	91-57-6	1
2-Methylphenol	1,270	ug/kg	40	8270C	06/08/12 18:51	JGH	95-48-7	1
3-, 4-Methylphenol	1,530	ug/kg	70	8270C	06/08/12 18:51	JGH	3/4-Cresol	1
2-Nitroaniline	1,400	ug/kg	40	8270C	06/08/12 18:51	JGH	88-74-4	1
2-Nitrophenol	1,180	ug/kg	40	8270C	06/08/12 18:51	JGH	88-75-5	1
3-Nitroaniline	1,210	ug/kg	40	8270C	06/08/12 18:51	JGH	99-09-2	1
4-Nitroaniline	1,440	ug/kg	40	8270C	06/08/12 18:51	JGH	100-01-6	1
4-Nitrophenol	1,130	ug/kg	40	8270C	06/08/12 18:51	JGH	100-02-7	1
N-Nitrosodi-n-propylamine	1,270	ug/kg	40	8270C	06/08/12 18:51	JGH	621-64-7	1
N-Nitrosodiphenylamine	1,050	ug/kg	40	8270C	06/08/12 18:51	JGH	86-30-6	1
Naphthalene	1,230	ug/kg	40	8270C	06/08/12 18:51	JGH	91-20-3	1
Nitrobenzene	1,150	ug/kg	40	8270C	06/08/12 18:51	JGH	98-95-3	1

1-Spiked at 1.67mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.10 (continued)

Sample Tag: SB-A2-PA65_16-17 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
di-n-Octyl phthalate	1,470	ug/kg	70	8270C	06/08/12 18:51	JGH	117-84-0	1
Pentachlorophenol	1,100	ug/kg	40	8270C	06/08/12 18:51	JGH	87-86-5	1
Phenanthrene	1,380	ug/kg	40	8270C	06/08/12 18:51	JGH	85-01-8	1
Phenol	1,250	ug/kg	40	8270C	06/08/12 18:51	JGH	108-95-2	1
Pyrene	1,440	ug/kg	40	8270C	06/08/12 18:51	JGH	129-00-0	1
2,4,5-Trichlorophenol	1,410	ug/kg	40	8270C	06/08/12 18:51	JGH	95-95-4	1
2,4,6-Trichlorophenol	1,330	ug/kg	40	8270C	06/08/12 18:51	JGH	88-06-2	1
Organics - Volatiles								
1,4-Dioxane	26,000	ug/kg	7,000	8260B	06/07/12 22:15	WAT	123-91-1	2
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	17,200	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	76-13-1	3Y
Acetone	19,200	ug/kg	3,500	5035/8260B	06/11/12 20:22	WAT	67-64-1	3Y
Carbon disulfide	17,900	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	75-15-0	3Y
Methyl Acetate	15,800	ug/kg	3,500	5035/8260B	06/11/12 20:22	WAT	79-20-9	3Y
tert-Methyl butyl ether (MTBE)	16,900	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	1634-04-4	3Y
2-Butanone (MEK)	16,700	ug/kg	3,500	5035/8260B	06/11/12 20:22	WAT	78-93-3	3Y
Dichlorodifluoromethane	19,100	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	75-71-8	3Y
Chloromethane	16,500	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	74-87-3	3Y
Vinyl chloride	18,300	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	75-01-4	3Y
Bromomethane	15,100	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	74-83-9	3Y
Chloroethane	17,200	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	75-00-3	3Y
Trichlorofluoromethane	18,500	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	75-69-4	3Y
1,1-Dichloroethene	16,200	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	75-35-4	3Y
Methylene chloride	15,500	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	75-09-2	3Y
trans-1,2-Dichloroethene	16,200	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	156-60-5	3Y
1,1-Dichloroethane	15,800	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	75-34-3	3Y
cis-1,2-Dichloroethene	15,900	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	156-59-2	3Y
Chloroform	16,100	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	67-66-3	3Y
1,1,1-Trichloroethane	17,600	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	71-55-6	3Y
Cyclohexane	12,900	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	110-82-7	3Y
4-Methyl-2-pentanone (MIBK)	18,000	ug/kg	3,500	5035/8260B	06/11/12 20:22	WAT	108-10-1	3Y
2-Hexanone	18,800	ug/kg	3,500	5035/8260B	06/11/12 20:22	WAT	591-78-6	3Y
Carbon tetrachloride	18,800	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	56-23-5	3Y
Benzene	17,400	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	71-43-2	3Y
1,2-Dichloroethane	17,400	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	107-06-2	3Y
Trichloroethene	17,900	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	79-01-6	3Y
1,2-Dichloropropane	17,500	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	78-87-5	3Y
Bromodichloromethane	18,200	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	75-27-4	3Y
Methyl cyclohexane	17,600	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	108-87-2	3Y
cis-1,3-Dichloropropene	18,200	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	10061-01-5	3Y
Toluene	17,400	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	108-88-3	3Y
trans-1,3-Dichloropropene	19,200	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	10061-02-6	3Y
1,1,2-Trichloroethane	17,700	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	79-00-5	3Y
Tetrachloroethene	34,000	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	127-18-4	3Y

1-Spiked at 1.67mg/kg

2-Spiked at 20mg/kg

3-Spiked at 12.5mg/kg Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.10 (continued)

Sample Tag: SB-A2-PA65_16-17 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Dibromochloromethane	18,100	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	124-48-1	1Y
1,2-Dibromoethane	18,700	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	106-93-4	1Y
Chlorobenzene	17,900	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	108-90-7	1Y
1,1,2,2-Tetrachloroethane	18,400	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	79-34-5	1Y
Ethylbenzene	18,100	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	100-41-4	1Y
p,m-Xylene	37,100	ug/kg	700	5035/8260B	06/11/12 20:22	WAT		1Y
o-Xylene	18,300	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	95-47-6	1Y
Styrene	18,500	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	100-42-5	1Y
Isopropylbenzene	18,000	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	98-82-8	1Y
Bromoform	18,900	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	75-25-2	1Y
1,3-Dichlorobenzene	18,200	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	541-73-1	1Y
1,4-Dichlorobenzene	17,100	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	106-46-7	1Y
1,2-Dichlorobenzene	17,500	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	95-50-1	1Y
1,2-Dibromo-3-chloropropane	19,200	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	96-12-8	1Y
1,2,4-Trichlorobenzene	18,800	ug/kg	300	5035/8260B	06/11/12 20:22	WAT	120-82-1	1Y

1-Spiked at 12.5mg/kg Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.11

Sample Tag: SB-A2-PA65_16-17 MSD

Collected Date/Time: 06/04/2012 12:30

Matrix: Soil

COC Reference: 69057

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 01:52	EMR		
Mercury Digestion	Completed			7471A	06/07/12 11:00	JRH		
Metal Digestion	Completed			3050B	06/07/12 13:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	06/05/12 15:00	WAR		
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Metals

Antimony	19.7	mg/kg	0.20	6020	06/08/12 12:09	PER	7440-36-0	
Arsenic	22.4	mg/kg	0.10	6020	06/08/12 12:09	PER	7440-38-2	
Barium	36.6	mg/kg	1.0	6020	06/08/12 12:09	PER	7440-39-3	
Beryllium	21.6	mg/kg	0.20	6020	06/08/12 12:09	PER	7440-41-7	
Boron	22.6	mg/kg	4.1	6020	06/08/12 12:09	PER	7440-42-8	
Cadmium	20.9	mg/kg	0.10	6020	06/08/12 12:09	PER	7440-43-9	
Chromium	27.5	mg/kg	0.20	6020	06/08/12 12:09	PER	7440-47-3	
Cobalt	23.5	mg/kg	0.20	6020	06/08/12 12:09	PER	7440-48-4	
Copper	27.8	mg/kg	0.20	6020	06/08/12 12:09	PER	7440-50-8	
Lead	23.3	mg/kg	0.20	6020	06/08/12 12:09	PER	7439-92-1	
Manganese	209	mg/kg	0.20	6020	06/08/12 12:09	PER	7439-96-5	
Mercury	0.1237	mg/kg	0.0054	7471A	06/07/12 15:40	JRT	7439-97-6	
Nickel	28.6	mg/kg	0.20	6020	06/08/12 12:09	PER	7440-02-0	
Selenium	18.5	mg/kg	0.20	6020	06/08/12 12:09	PER	7782-49-2	
Silver	19.9	mg/kg	0.10	6020	06/08/12 12:09	PER	7440-22-4	
Thallium	18.3	mg/kg	0.20	6020	06/08/12 12:09	PER	7440-28-0	
Vanadium	29.7	mg/kg	0.20	6020	06/08/12 12:09	PER	7440-62-2	
Zinc	36.5	mg/kg	1.0	6020	06/08/12 12:09	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,630	ug/kg	40	8270C	06/08/12 19:20	JGH	83-32-9	1
Acenaphthylene	1,730	ug/kg	40	8270C	06/08/12 19:20	JGH	208-96-8	1
Acetophenone	1,480	ug/kg	40	8270C	06/08/12 19:20	JGH	98-86-2	1
Anthracene	1,570	ug/kg	40	8270C	06/08/12 19:20	JGH	120-12-7	1
Atrazine	1,680	ug/kg	40	8270C	06/08/12 19:20	JGH	1912-24-9	1
1,1'-Biphenyl	1,590	ug/kg	40	8270C	06/08/12 19:20	JGH	92-52-4	1
4-Bromophenyl phenyl ether	1,630	ug/kg	40	8270C	06/08/12 19:20	JGH	101-55-3	1
di-n-Butyl phthalate	1,520	ug/kg	70	8270C	06/08/12 19:20	JGH	84-74-2	1B
Benzaldehyde	1,290	ug/kg	40	8270C	06/08/12 19:20	JGH	100-52-7	1
Benzo(a)anthracene	1,740	ug/kg	40	8270C	06/08/12 19:20	JGH	56-55-3	1
Benzo(a)pyrene	1,570	ug/kg	40	8270C	06/08/12 19:20	JGH	50-32-8	1

1-Spiked at 1.67mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.11 (continued)

Sample Tag: SB-A2-PA65_16-17 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(b)fluoranthene	1,680	ug/kg	40	8270C	06/08/12 19:20	JGH	205-99-2	1
Benzo(ghi)perylene	1,930	ug/kg	40	8270C	06/08/12 19:20	JGH	191-24-2	1
Benzo(k)fluoranthene	1,660	ug/kg	40	8270C	06/08/12 19:20	JGH	207-08-9	1
Butyl benzyl phthalate	1,620	ug/kg	40	8270C	06/08/12 19:20	JGH	85-68-7	1
2-Chloronaphthalene	1,610	ug/kg	40	8270C	06/08/12 19:20	JGH	91-58-7	1
2-Chlorophenol	1,390	ug/kg	40	8270C	06/08/12 19:20	JGH	95-57-8	1
4-Chloro-3-methylphenol	1,550	ug/kg	40	8270C	06/08/12 19:20	JGH	59-50-7	1
4-Chloroaniline	690	ug/kg	40	8270C	06/08/12 19:20	JGH	106-47-8	1
4-Chlorophenyl phenyl ether	2,140	ug/kg	40	8270C	06/08/12 19:20	JGH	7005-72-3	1
Caprolactam	1,610	ug/kg	40	8270C	06/08/12 19:20	JGH	105-60-2	1
Carbazole	1,660	ug/kg	40	8270C	06/08/12 19:20	JGH	86-74-8	1
bis(2-Chloroethoxy)methane	1,380	ug/kg	40	8270C	06/08/12 19:20	JGH	111-91-1	1
bis(2-Chloroethyl)ether	1,330	ug/kg	40	8270C	06/08/12 19:20	JGH	111-44-4	1
bis(2-Chloroisopropyl)ether	1,350	ug/kg	40	8270C	06/08/12 19:20	JGH	108-60-1	1
Chrysene	1,650	ug/kg	40	8270C	06/08/12 19:20	JGH	218-01-9	1
2,4-Dichlorophenol	1,540	ug/kg	40	8270C	06/08/12 19:20	JGH	120-83-2	1
2,4-Dimethylphenol	1,360	ug/kg	40	8270C	06/08/12 19:20	JGH	105-67-9	1
2,4-Dinitrophenol	960	ug/kg	40	8270C	06/08/12 19:20	JGH	51-28-5	1
2,4-Dinitrotoluene	1,600	ug/kg	40	8270C	06/08/12 19:20	JGH	121-14-2	1
2,6-Dinitrotoluene	1,810	ug/kg	40	8270C	06/08/12 19:20	JGH	606-20-2	1
3,3'-Dichlorobenzidine	1,490	ug/kg	40	8270C	06/08/12 19:20	JGH	91-94-1	1
4,6-Dinitro-2-methylphenol	1,300	ug/kg	40	8270C	06/08/12 19:20	JGH	534-52-1	1
Dibenzo(ah)anthracene	2,040	ug/kg	70	8270C	06/08/12 19:20	JGH	53-70-3	1
Dibenzofuran	1,660	ug/kg	40	8270C	06/08/12 19:20	JGH	132-64-9	1
Diethyl phthalate	1,660	ug/kg	70	8270C	06/08/12 19:20	JGH	84-66-2	1
Dimethyl phthalate	1,790	ug/kg	40	8270C	06/08/12 19:20	JGH	131-11-3	1B
bis(2-Ethylhexyl)phthalate	1,670	ug/kg	70	8270C	06/08/12 19:20	JGH	117-81-7	1
Fluoranthene	1,640	ug/kg	40	8270C	06/08/12 19:20	JGH	206-44-0	1
Fluorene	2,010	ug/kg	40	8270C	06/08/12 19:20	JGH	86-73-7	1
Hexachlorobenzene	1,560	ug/kg	40	8270C	06/08/12 19:20	JGH	118-74-1	1
Hexachlorobutadiene	1,290	ug/kg	40	8270C	06/08/12 19:20	JGH	87-68-3	1
Hexachlorocyclopentadiene	1,170	ug/kg	40	8270C	06/08/12 19:20	JGH	77-47-4	1
Hexachloroethane	1,240	ug/kg	40	8270C	06/08/12 19:20	JGH	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,940	ug/kg	40	8270C	06/08/12 19:20	JGH	193-39-5	1
Isophorone	1,470	ug/kg	40	8270C	06/08/12 19:20	JGH	78-59-1	1
2-Methylnaphthalene	1,500	ug/kg	40	8270C	06/08/12 19:20	JGH	91-57-6	1
2-Methylphenol	1,490	ug/kg	40	8270C	06/08/12 19:20	JGH	95-48-7	1
3-, 4-Methylphenol	1,760	ug/kg	70	8270C	06/08/12 19:20	JGH	3/4-Cresol	1
2-Nitroaniline	1,650	ug/kg	40	8270C	06/08/12 19:20	JGH	88-74-4	1
2-Nitrophenol	1,390	ug/kg	40	8270C	06/08/12 19:20	JGH	88-75-5	1
3-Nitroaniline	1,430	ug/kg	40	8270C	06/08/12 19:20	JGH	99-09-2	1
4-Nitroaniline	1,710	ug/kg	40	8270C	06/08/12 19:20	JGH	100-01-6	1
4-Nitrophenol	1,360	ug/kg	40	8270C	06/08/12 19:20	JGH	100-02-7	1
N-Nitrosodi-n-propylamine	1,480	ug/kg	40	8270C	06/08/12 19:20	JGH	621-64-7	1
N-Nitrosodiphenylamine	1,230	ug/kg	40	8270C	06/08/12 19:20	JGH	86-30-6	1
Naphthalene	1,440	ug/kg	40	8270C	06/08/12 19:20	JGH	91-20-3	1
Nitrobenzene	1,340	ug/kg	40	8270C	06/08/12 19:20	JGH	98-95-3	1

1-Spiked at 1.67mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.11 (continued)

Sample Tag: SB-A2-PA65_16-17 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
di-n-Octyl phthalate	1,710	ug/kg	70	8270C	06/08/12 19:20	JGH	117-84-0	1
Pentachlorophenol	1,290	ug/kg	40	8270C	06/08/12 19:20	JGH	87-86-5	1
Phenanthrene	1,580	ug/kg	40	8270C	06/08/12 19:20	JGH	85-01-8	1
Phenol	1,470	ug/kg	40	8270C	06/08/12 19:20	JGH	108-95-2	1
Pyrene	1,650	ug/kg	40	8270C	06/08/12 19:20	JGH	129-00-0	1
2,4,5-Trichlorophenol	1,640	ug/kg	40	8270C	06/08/12 19:20	JGH	95-95-4	1
2,4,6-Trichlorophenol	1,550	ug/kg	40	8270C	06/08/12 19:20	JGH	88-06-2	1
Organics - Volatiles								
1,4-Dioxane	22,000	ug/kg	6,000	8260B	06/07/12 22:34	WAT	123-91-1	2
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	14,000	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	76-13-1	3Y
Acetone	13,000	ug/kg	2,800	5035/8260B	06/11/12 20:40	WAT	67-64-1	3Y
Carbon disulfide	14,600	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	75-15-0	3Y
Methyl Acetate	12,500	ug/kg	2,800	5035/8260B	06/11/12 20:40	WAT	79-20-9	3Y
tert-Methyl butyl ether (MTBE)	13,300	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	1634-04-4	3Y
2-Butanone (MEK)	12,300	ug/kg	2,800	5035/8260B	06/11/12 20:40	WAT	78-93-3	3Y
Dichlorodifluoromethane	15,700	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	75-71-8	3Y
Chloromethane	13,500	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	74-87-3	3Y
Vinyl chloride	15,000	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	75-01-4	3Y
Bromomethane	12,400	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	74-83-9	3Y
Chloroethane	14,300	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	75-00-3	3Y
Trichlorofluoromethane	15,000	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	75-69-4	3Y
1,1-Dichloroethene	13,200	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	75-35-4	3Y
Methylene chloride	12,300	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	75-09-2	3Y
trans-1,2-Dichloroethene	12,900	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	156-60-5	3Y
1,1-Dichloroethane	12,500	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	75-34-3	3Y
cis-1,2-Dichloroethene	12,500	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	156-59-2	3Y
Chloroform	12,700	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	67-66-3	3Y
1,1,1-Trichloroethane	14,400	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	71-55-6	3Y
Cyclohexane	10,300	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	110-82-7	3Y
4-Methyl-2-pentanone (MIBK)	14,700	ug/kg	2,800	5035/8260B	06/11/12 20:40	WAT	108-10-1	3Y
2-Hexanone	14,300	ug/kg	2,800	5035/8260B	06/11/12 20:40	WAT	591-78-6	3Y
Carbon tetrachloride	15,600	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	56-23-5	3Y
Benzene	14,000	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	71-43-2	3Y
1,2-Dichloroethane	13,900	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	107-06-2	3Y
Trichloroethene	14,400	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	79-01-6	3Y
1,2-Dichloropropane	14,100	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	78-87-5	3Y
Bromodichloromethane	14,700	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	75-27-4	3Y
Methyl cyclohexane	14,500	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	108-87-2	3Y
cis-1,3-Dichloropropene	14,600	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	10061-01-5	3Y
Toluene	14,000	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	108-88-3	3Y
trans-1,3-Dichloropropene	15,500	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	10061-02-6	3Y
1,1,2-Trichloroethane	14,200	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	79-00-5	3Y
Tetrachloroethene	27,500	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	127-18-4	3Y

1-Spiked at 1.67mg/kg

2-Spiked at 20mg/kg

3-Spiked at 12.5mg/kg Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.11 (continued)

Sample Tag: SB-A2-PA65_16-17 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Dibromochloromethane	14,500	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	124-48-1	1Y
1,2-Dibromoethane	15,000	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	106-93-4	1Y
Chlorobenzene	14,100	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	108-90-7	1Y
1,1,2,2-Tetrachloroethane	14,500	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	79-34-5	1Y
Ethylbenzene	14,300	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	100-41-4	1Y
p,m-Xylene	29,200	ug/kg	600	5035/8260B	06/11/12 20:40	WAT		1Y
o-Xylene	14,300	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	95-47-6	1Y
Styrene	14,400	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	100-42-5	1Y
Isopropylbenzene	14,400	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	98-82-8	1Y
Bromoform	15,500	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	75-25-2	1Y
1,3-Dichlorobenzene	14,500	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	541-73-1	1Y
1,4-Dichlorobenzene	13,500	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	106-46-7	1Y
1,2-Dichlorobenzene	13,900	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	95-50-1	1Y
1,2-Dibromo-3-chloropropane	14,600	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	96-12-8	1Y
1,2,4-Trichlorobenzene	14,700	ug/kg	300	5035/8260B	06/11/12 20:40	WAT	120-82-1	1Y

1-Spiked at 12.5mg/kg Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.12
Sample Tag: SB-A2-PD65_1-2
Collected Date/Time: 06/04/2012 14:13
Matrix: Soil
COC Reference: 69057

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 01:52	EMR		
Mercury Digestion	Completed			7471A	06/07/12 11:00	JRH		
Metal Digestion	Completed			3050B	06/07/12 13:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	06/05/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/08/12 12:19	PER	7440-36-0	
Arsenic	0.79	mg/kg	0.10	6020	06/08/12 12:19	PER	7440-38-2	
Barium	10.9	mg/kg	1.0	6020	06/08/12 12:19	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/08/12 12:19	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/08/12 12:19	PER	7440-42-8	
Cadmium	0.28	mg/kg	0.10	6020	06/08/12 12:19	PER	7440-43-9	
Chromium	2.03	mg/kg	0.20	6020	06/08/12 12:19	PER	7440-47-3	
Cobalt	15.9	mg/kg	0.20	6020	06/08/12 12:19	PER	7440-48-4	
Copper	4.49	mg/kg	0.20	6020	06/08/12 12:19	PER	7440-50-8	
Lead	6.18	mg/kg	0.20	6020	06/08/12 12:19	PER	7439-92-1	
Manganese	138	mg/kg	0.20	6020	06/08/12 12:19	PER	7439-96-5	
Mercury	0.0058	mg/kg	0.0057	7471A	06/07/12 14:55	JRT	7439-97-6	
Nickel	6.52	mg/kg	0.20	6020	06/08/12 12:19	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/08/12 12:19	PER	7782-49-2	
Silver	2.98	mg/kg	0.10	6020	06/08/12 12:19	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/08/12 12:19	PER	7440-28-0	
Vanadium	2.10	mg/kg	0.20	6020	06/08/12 12:19	PER	7440-62-2	
Zinc	121	mg/kg	1.0	6020	06/08/12 12:19	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 19:49	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	191-24-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.12 (continued)

Sample Tag: SB-A2-PD65_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/08/12 19:49	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 19:49	JGH	84-66-2	
Dimethyl phthalate	270	ug/kg	40	8270C	06/08/12 19:49	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/08/12 19:49	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/08/12 19:49	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 19:49	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.12 (continued)

Sample Tag: SB-A2-PD65_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 19:49	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/07/12 20:57	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	76-13-1	
Acetone	Not detected	ug/kg	640	5035/8260B	06/07/12 20:57	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	640	5035/8260B	06/07/12 20:57	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	640	5035/8260B	06/07/12 20:57	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	640	5035/8260B	06/07/12 20:57	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	640	5035/8260B	06/07/12 20:57	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/07/12 20:57	WAT		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.12 (continued)

Sample Tag: SB-A2-PD65_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/07/12 20:57	WAT	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.13
Sample Tag: SB-A2-PD65_9-10
Collected Date/Time: 06/04/2012 14:21
Matrix: Soil
COC Reference: 69057

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 01:52	EMR		
Mercury Digestion	Completed			7471A	06/07/12 11:00	JRH		
Metal Digestion	Completed			3050B	06/07/12 13:00	PER		

Inorganics

Total Solids	74	%	1	Std M 2540 B	06/05/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.22	6020	06/08/12 12:28	PER	7440-36-0	
Arsenic	2.00	mg/kg	0.11	6020	06/08/12 12:28	PER	7440-38-2	
Barium	138	mg/kg	1.1	6020	06/08/12 12:28	PER	7440-39-3	
Beryllium	0.80	mg/kg	0.22	6020	06/08/12 12:28	PER	7440-41-7	
Boron	Not detected	mg/kg	4.5	6020	06/08/12 12:28	PER	7440-42-8	
Cadmium	0.68	mg/kg	0.11	6020	06/08/12 12:28	PER	7440-43-9	
Chromium	8.38	mg/kg	0.22	6020	06/08/12 12:28	PER	7440-47-3	
Cobalt	7.63	mg/kg	0.22	6020	06/08/12 12:28	PER	7440-48-4	
Copper	9.27	mg/kg	0.22	6020	06/08/12 12:28	PER	7440-50-8	
Lead	11.7	mg/kg	0.22	6020	06/08/12 12:28	PER	7439-92-1	
Manganese	1,560	mg/kg	0.22	6020	06/08/12 12:28	PER	7439-96-5	
Mercury	0.0906	mg/kg	0.0067	7471A	06/07/12 14:57	JRT	7439-97-6	
Nickel	15.9	mg/kg	0.22	6020	06/08/12 12:28	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.22	6020	06/08/12 12:28	PER	7782-49-2	
Silver	Not detected	mg/kg	0.11	6020	06/08/12 12:28	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.22	6020	06/08/12 12:28	PER	7440-28-0	
Vanadium	15.7	mg/kg	0.22	6020	06/08/12 12:28	PER	7440-62-2	
Zinc	31.4	mg/kg	1.1	6020	06/08/12 12:28	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	98-86-2	
Anthracene	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	120-12-7	
Atrazine	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	90	8270C	06/08/12 20:19	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	191-24-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.13 (continued)

Sample Tag: SB-A2-PD65_9-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	105-60-2	
Carbazole	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	108-60-1	
Chrysene	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	90	8270C	06/08/12 20:19	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	90	8270C	06/08/12 20:19	JGH	84-66-2	
Dimethyl phthalate	200	ug/kg	50	8270C	06/08/12 20:19	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	90	8270C	06/08/12 20:19	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	206-44-0	
Fluorene	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	193-39-5	
Isophorone	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	90	8270C	06/08/12 20:19	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	90	8270C	06/08/12 20:19	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.13 (continued)

Sample Tag: SB-A2-PD65_9-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	108-95-2	
Pyrene	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	50	8270C	06/08/12 20:19	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	9,000	8260B	06/07/12 21:16	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	76-13-1	
Acetone	Not detected	ug/kg	940	5035/8260B	06/07/12 21:16	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	940	5035/8260B	06/07/12 21:16	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	940	5035/8260B	06/07/12 21:16	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	156-59-2	
Chloroform	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	940	5035/8260B	06/07/12 21:16	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	940	5035/8260B	06/07/12 21:16	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	56-23-5	
Benzene	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	10061-01-5	
Toluene	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	200	5035/8260B	06/07/12 21:16	WAT		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.13 (continued)

Sample Tag: SB-A2-PD65_9-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	95-47-6	
Styrene	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	98-82-8	
Bromoform	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	90	5035/8260B	06/07/12 21:16	WAT	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.14

Sample Tag: SB-A2-PD65_16-17

Collected Date/Time: 06/04/2012 14:30

Matrix: Soil

COC Reference: 69057

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 01:52	EMR		
Mercury Digestion	Completed			7471A	06/07/12 11:00	JRH		
Metal Digestion	Completed			3050B	06/07/12 13:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	06/05/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/08/12 12:30	PER	7440-36-0	
Arsenic	1.20	mg/kg	0.10	6020	06/08/12 12:30	PER	7440-38-2	
Barium	38.8	mg/kg	1.0	6020	06/08/12 12:30	PER	7440-39-3	
Beryllium	0.24	mg/kg	0.20	6020	06/08/12 12:30	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/08/12 12:30	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/08/12 12:30	PER	7440-43-9	
Chromium	8.05	mg/kg	0.20	6020	06/08/12 12:30	PER	7440-47-3	
Cobalt	4.46	mg/kg	0.20	6020	06/08/12 12:30	PER	7440-48-4	
Copper	9.39	mg/kg	0.20	6020	06/08/12 12:30	PER	7440-50-8	
Lead	4.34	mg/kg	0.20	6020	06/08/12 12:30	PER	7439-92-1	
Manganese	217	mg/kg	0.20	6020	06/08/12 12:30	PER	7439-96-5	
Mercury	0.0134	mg/kg	0.0056	7471A	06/07/12 15:00	JRT	7439-97-6	
Nickel	11.9	mg/kg	0.20	6020	06/08/12 12:30	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/08/12 12:30	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/08/12 12:30	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/08/12 12:30	PER	7440-28-0	
Vanadium	10.1	mg/kg	0.20	6020	06/08/12 12:30	PER	7440-62-2	
Zinc	16.7	mg/kg	1.0	6020	06/08/12 12:30	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 20:48	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	191-24-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.14 (continued)

Sample Tag: SB-A2-PD65_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/08/12 20:48	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 20:48	JGH	84-66-2	
Dimethyl phthalate	150	ug/kg	40	8270C	06/08/12 20:48	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/08/12 20:48	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/08/12 20:48	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 20:48	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.14 (continued)

Sample Tag: SB-A2-PD65_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 20:48	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/08/12 01:57	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	76-13-1	
Acetone	Not detected	ug/kg	690	5035/8260B	06/08/12 01:57	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	690	5035/8260B	06/08/12 01:57	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	690	5035/8260B	06/08/12 01:57	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	690	5035/8260B	06/08/12 01:57	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	690	5035/8260B	06/08/12 01:57	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	79-00-5	
Tetrachloroethene	1,700	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/08/12 01:57	WAT		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.14 (continued)

Sample Tag: SB-A2-PD65_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 01:57	WAT	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.15
Sample Tag: SB-A2-PD65_15-16
Collected Date/Time: 06/04/2012 14:33
Matrix: Soil
COC Reference: 69057

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 01:52	EMR		
Mercury Digestion	Completed			7471A	06/07/12 11:00	JRH		
Metal Digestion	Completed			3050B	06/07/12 13:00	PER		

Inorganics

Total Solids	85	%	1	Std M 2540 B	06/05/12 15:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/08/12 12:32	PER	7440-36-0	
Arsenic	1.09	mg/kg	0.10	6020	06/08/12 12:32	PER	7440-38-2	
Barium	9.98	mg/kg	1.0	6020	06/08/12 12:32	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/08/12 12:32	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/08/12 12:32	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/08/12 12:32	PER	7440-43-9	
Chromium	2.19	mg/kg	0.20	6020	06/08/12 12:32	PER	7440-47-3	
Cobalt	1.53	mg/kg	0.20	6020	06/08/12 12:32	PER	7440-48-4	
Copper	4.57	mg/kg	0.20	6020	06/08/12 12:32	PER	7440-50-8	
Lead	2.10	mg/kg	0.20	6020	06/08/12 12:32	PER	7439-92-1	
Manganese	176	mg/kg	0.20	6020	06/08/12 12:32	PER	7439-96-5	
Mercury	0.0082	mg/kg	0.0057	7471A	06/07/12 15:02	JRT	7439-97-6	
Nickel	4.01	mg/kg	0.20	6020	06/08/12 12:32	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/08/12 12:32	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/08/12 12:32	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/08/12 12:32	PER	7440-28-0	
Vanadium	3.86	mg/kg	0.20	6020	06/08/12 12:32	PER	7440-62-2	
Zinc	10.1	mg/kg	1.0	6020	06/08/12 12:32	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 21:17	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	191-24-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.15 (continued)

Sample Tag: SB-A2-PD65_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/08/12 21:17	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 21:17	JGH	84-66-2	
Dimethyl phthalate	180	ug/kg	40	8270C	06/08/12 21:17	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/08/12 21:17	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/08/12 21:17	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 21:17	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.15 (continued)

Sample Tag: SB-A2-PD65_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 21:17	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/08/12 02:16	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	76-13-1	
Acetone	Not detected	ug/kg	750	5035/8260B	06/08/12 02:16	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	750	5035/8260B	06/08/12 02:16	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	750	5035/8260B	06/08/12 02:16	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	750	5035/8260B	06/08/12 02:16	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	750	5035/8260B	06/08/12 02:16	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	79-00-5	
Tetrachloroethene	730	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/08/12 02:16	WAT		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.15 (continued)

Sample Tag: SB-A2-PD65_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:16	WAT	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.16
Sample Tag: SB-A2-PC64_1-2
Collected Date/Time: 06/04/2012 15:17
Matrix: Soil
COC Reference: 69057

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 01:52	EMR		
Mercury Digestion	Completed			7471A	06/07/12 11:00	JRH		
Metal Digestion	Completed			3050B	06/07/12 13:00	PER		

Inorganics

Total Solids	85	%	1	Std M 2540 B	06/05/12 12:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/08/12 12:34	PER	7440-36-0	
Arsenic	2.30	mg/kg	0.10	6020	06/08/12 12:34	PER	7440-38-2	
Barium	83.6	mg/kg	1.0	6020	06/08/12 12:34	PER	7440-39-3	
Beryllium	0.49	mg/kg	0.21	6020	06/08/12 12:34	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	06/08/12 12:34	PER	7440-42-8	
Cadmium	0.52	mg/kg	0.10	6020	06/08/12 12:34	PER	7440-43-9	
Chromium	9.25	mg/kg	0.21	6020	06/08/12 12:34	PER	7440-47-3	
Cobalt	8.91	mg/kg	0.21	6020	06/08/12 12:34	PER	7440-48-4	
Copper	8.69	mg/kg	0.21	6020	06/08/12 12:34	PER	7440-50-8	
Lead	29.8	mg/kg	0.21	6020	06/08/12 12:34	PER	7439-92-1	
Manganese	506	mg/kg	0.21	6020	06/08/12 12:34	PER	7439-96-5	
Mercury	0.0556	mg/kg	0.0059	7471A	06/07/12 15:15	JRT	7439-97-6	
Nickel	9.30	mg/kg	0.21	6020	06/08/12 12:34	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/08/12 12:34	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/08/12 12:34	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/08/12 12:34	PER	7440-28-0	
Vanadium	10.8	mg/kg	0.21	6020	06/08/12 12:34	PER	7440-62-2	
Zinc	55.8	mg/kg	1.0	6020	06/08/12 12:34	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 21:46	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	191-24-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.16 (continued)

Sample Tag: SB-A2-PC64_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/08/12 21:46	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 21:46	JGH	84-66-2	
Dimethyl phthalate	100	ug/kg	40	8270C	06/08/12 21:46	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/08/12 21:46	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/08/12 21:46	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 21:46	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.16 (continued)

Sample Tag: SB-A2-PC64_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 21:46	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	9,000	8260B	06/08/12 02:35	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	76-13-1	
Acetone	Not detected	ug/kg	870	5035/8260B	06/08/12 02:35	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	870	5035/8260B	06/08/12 02:35	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	870	5035/8260B	06/08/12 02:35	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	156-59-2	
Chloroform	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	870	5035/8260B	06/08/12 02:35	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	870	5035/8260B	06/08/12 02:35	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	56-23-5	
Benzene	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	10061-01-5	
Toluene	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	200	5035/8260B	06/08/12 02:35	WAT		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.16 (continued)

Sample Tag: SB-A2-PC64_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	95-47-6	
Styrene	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	98-82-8	
Bromoform	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	90	5035/8260B	06/08/12 02:35	WAT	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.17
Sample Tag: SB-A2-PC64_5-6
Collected Date/Time: 06/04/2012 15:45
Matrix: Soil
COC Reference: 69056

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 01:52	EMR		
Mercury Digestion	Completed			7471A	06/07/12 11:00	JRH		
Metal Digestion	Completed			3050B	06/07/12 13:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	06/05/12 12:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/08/12 12:36	PER	7440-36-0	
Arsenic	1.05	mg/kg	0.10	6020	06/08/12 12:36	PER	7440-38-2	
Barium	38.5	mg/kg	1.0	6020	06/08/12 12:36	PER	7440-39-3	
Beryllium	0.27	mg/kg	0.20	6020	06/08/12 12:36	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/08/12 12:36	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/08/12 12:36	PER	7440-43-9	
Chromium	6.96	mg/kg	0.20	6020	06/08/12 12:36	PER	7440-47-3	
Cobalt	3.89	mg/kg	0.20	6020	06/08/12 12:36	PER	7440-48-4	
Copper	5.77	mg/kg	0.20	6020	06/08/12 12:36	PER	7440-50-8	
Lead	4.23	mg/kg	0.20	6020	06/08/12 12:36	PER	7439-92-1	
Manganese	258	mg/kg	0.20	6020	06/08/12 12:36	PER	7439-96-5	
Mercury	0.0111	mg/kg	0.0056	7471A	06/07/12 15:18	JRT	7439-97-6	
Nickel	11.2	mg/kg	0.20	6020	06/08/12 12:36	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/08/12 12:36	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/08/12 12:36	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/08/12 12:36	PER	7440-28-0	
Vanadium	9.42	mg/kg	0.20	6020	06/08/12 12:36	PER	7440-62-2	
Zinc	14.0	mg/kg	1.0	6020	06/08/12 12:36	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 22:16	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	191-24-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.17 (continued)

Sample Tag: SB-A2-PC64_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/08/12 22:16	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 22:16	JGH	84-66-2	
Dimethyl phthalate	110	ug/kg	40	8270C	06/08/12 22:16	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/08/12 22:16	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/08/12 22:16	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 22:16	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.17 (continued)

Sample Tag: SB-A2-PC64_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 22:16	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/08/12 02:54	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	76-13-1	
Acetone	Not detected	ug/kg	680	5035/8260B	06/08/12 02:54	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	680	5035/8260B	06/08/12 02:54	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	680	5035/8260B	06/08/12 02:54	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	680	5035/8260B	06/08/12 02:54	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	680	5035/8260B	06/08/12 02:54	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/08/12 02:54	WAT		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.17 (continued)

Sample Tag: SB-A2-PC64_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 02:54	WAT	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.18

Sample Tag: SB-A2-PC64_15-16

Collected Date/Time: 06/04/2012 15:50

Matrix: Soil

COC Reference: 69056

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 01:52	EMR		
Mercury Digestion	Completed			7471A	06/07/12 11:00	JRH		
Metal Digestion	Completed			3050B	06/07/12 13:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	06/05/12 12:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/08/12 12:38	PER	7440-36-0	
Arsenic	2.20	mg/kg	0.10	6020	06/08/12 12:38	PER	7440-38-2	
Barium	31.6	mg/kg	1.0	6020	06/08/12 12:38	PER	7440-39-3	
Beryllium	0.31	mg/kg	0.21	6020	06/08/12 12:38	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	06/08/12 12:38	PER	7440-42-8	
Cadmium	0.14	mg/kg	0.10	6020	06/08/12 12:38	PER	7440-43-9	
Chromium	7.93	mg/kg	0.21	6020	06/08/12 12:38	PER	7440-47-3	
Cobalt	5.36	mg/kg	0.21	6020	06/08/12 12:38	PER	7440-48-4	
Copper	12.6	mg/kg	0.21	6020	06/08/12 12:38	PER	7440-50-8	
Lead	5.85	mg/kg	0.21	6020	06/08/12 12:38	PER	7439-92-1	
Manganese	297	mg/kg	0.21	6020	06/08/12 12:38	PER	7439-96-5	
Mercury	0.0141	mg/kg	0.0056	7471A	06/07/12 15:20	JRT	7439-97-6	
Nickel	15.4	mg/kg	0.21	6020	06/08/12 12:38	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/08/12 12:38	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/08/12 12:38	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/08/12 12:38	PER	7440-28-0	
Vanadium	10.9	mg/kg	0.21	6020	06/08/12 12:38	PER	7440-62-2	
Zinc	23.4	mg/kg	1.0	6020	06/08/12 12:38	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 22:45	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	191-24-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.18 (continued)

Sample Tag: SB-A2-PC64_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/08/12 22:45	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 22:45	JGH	84-66-2	
Dimethyl phthalate	170	ug/kg	40	8270C	06/08/12 22:45	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/08/12 22:45	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/08/12 22:45	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 22:45	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.18 (continued)

Sample Tag: SB-A2-PC64_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 22:45	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/08/12 03:13	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	76-13-1	
Acetone	Not detected	ug/kg	680	5035/8260B	06/08/12 03:13	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	680	5035/8260B	06/08/12 03:13	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	680	5035/8260B	06/08/12 03:13	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	680	5035/8260B	06/08/12 03:13	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	680	5035/8260B	06/08/12 03:13	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/08/12 03:13	WAT		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.18 (continued)

Sample Tag: SB-A2-PC64_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:13	WAT	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.19
Sample Tag: SB-A2-DUP72
Collected Date/Time: 06/04/2012 00:01
Matrix: Soil
COC Reference: 69056

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 01:52	EMR		
Mercury Digestion	Completed			7471A	06/07/12 11:00	JRH		
Metal Digestion	Completed			3050B	06/07/12 13:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	06/05/12 12:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/08/12 12:40	PER	7440-36-0	
Arsenic	1.89	mg/kg	0.10	6020	06/08/12 12:40	PER	7440-38-2	
Barium	30.1	mg/kg	1.0	6020	06/08/12 12:40	PER	7440-39-3	
Beryllium	0.25	mg/kg	0.21	6020	06/08/12 12:40	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/08/12 12:40	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	06/08/12 12:40	PER	7440-43-9	
Chromium	6.58	mg/kg	0.21	6020	06/08/12 12:40	PER	7440-47-3	
Cobalt	4.75	mg/kg	0.21	6020	06/08/12 12:40	PER	7440-48-4	
Copper	12.8	mg/kg	0.21	6020	06/08/12 12:40	PER	7440-50-8	
Lead	5.32	mg/kg	0.21	6020	06/08/12 12:40	PER	7439-92-1	
Manganese	257	mg/kg	0.21	6020	06/08/12 12:40	PER	7439-96-5	
Mercury	0.0142	mg/kg	0.0057	7471A	06/07/12 15:22	JRT	7439-97-6	
Nickel	13.0	mg/kg	0.21	6020	06/08/12 12:40	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/08/12 12:40	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/08/12 12:40	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/08/12 12:40	PER	7440-28-0	
Vanadium	9.24	mg/kg	0.21	6020	06/08/12 12:40	PER	7440-62-2	
Zinc	21.0	mg/kg	1.0	6020	06/08/12 12:40	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 23:14	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	191-24-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.19 (continued)

Sample Tag: SB-A2-DUP72

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/08/12 23:14	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 23:14	JGH	84-66-2	
Dimethyl phthalate	180	ug/kg	40	8270C	06/08/12 23:14	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/08/12 23:14	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/08/12 23:14	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/08/12 23:14	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.19 (continued)

Sample Tag: SB-A2-DUP72

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 23:14	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/08/12 03:32	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	76-13-1	
Acetone	Not detected	ug/kg	620	5035/8260B	06/08/12 03:32	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	620	5035/8260B	06/08/12 03:32	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	620	5035/8260B	06/08/12 03:32	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	620	5035/8260B	06/08/12 03:32	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	620	5035/8260B	06/08/12 03:32	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/08/12 03:32	WAT		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.19 (continued)

Sample Tag: SB-A2-DUP72

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 03:32	WAT	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.20
Sample Tag: SB-A2-PC64_18-19
Collected Date/Time: 06/04/2012 16:06
Matrix: Soil
COC Reference: 69056

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 01:52	EMR		
Mercury Digestion	Completed			7471A	06/07/12 11:00	JRH		
Metal Digestion	Completed			3050B	06/07/12 13:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	06/05/12 12:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/08/12 12:42	PER	7440-36-0	
Arsenic	1.12	mg/kg	0.10	6020	06/08/12 12:42	PER	7440-38-2	
Barium	8.28	mg/kg	1.0	6020	06/08/12 12:42	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/08/12 12:42	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/08/12 12:42	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/08/12 12:42	PER	7440-43-9	
Chromium	2.04	mg/kg	0.20	6020	06/08/12 12:42	PER	7440-47-3	
Cobalt	1.60	mg/kg	0.20	6020	06/08/12 12:42	PER	7440-48-4	
Copper	4.74	mg/kg	0.20	6020	06/08/12 12:42	PER	7440-50-8	
Lead	2.17	mg/kg	0.20	6020	06/08/12 12:42	PER	7439-92-1	
Manganese	122	mg/kg	0.20	6020	06/08/12 12:42	PER	7439-96-5	
Mercury	0.0084	mg/kg	0.0058	7471A	06/07/12 15:25	JRT	7439-97-6	
Nickel	4.49	mg/kg	0.20	6020	06/08/12 12:42	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/08/12 12:42	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/08/12 12:42	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/08/12 12:42	PER	7440-28-0	
Vanadium	3.91	mg/kg	0.20	6020	06/08/12 12:42	PER	7440-62-2	
Zinc	10.8	mg/kg	1.0	6020	06/08/12 12:42	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 23:44	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	191-24-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.20 (continued)

Sample Tag: SB-A2-PC64_18-19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/08/12 23:44	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 23:44	JGH	84-66-2	
Dimethyl phthalate	60	ug/kg	40	8270C	06/08/12 23:44	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/08/12 23:44	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/08/12 23:44	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/08/12 23:44	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.20 (continued)

Sample Tag: SB-A2-PC64_18-19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/08/12 23:44	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/08/12 03:51	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	76-13-1	
Acetone	Not detected	ug/kg	660	5035/8260B	06/08/12 03:51	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	660	5035/8260B	06/08/12 03:51	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	660	5035/8260B	06/08/12 03:51	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	660	5035/8260B	06/08/12 03:51	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	660	5035/8260B	06/08/12 03:51	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	79-00-5	
Tetrachloroethene	750	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/08/12 03:51	WAT		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.20 (continued)

Sample Tag: SB-A2-PC64_18-19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 03:51	WAT	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.21
Sample Tag: Trip Blank
Collected Date/Time: 06/04/2012 00:01
Matrix: Water
COC Reference: 69056

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	100	8260B	06/10/12 04:51	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	06/10/12 04:51	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	06/10/12 04:51	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	06/10/12 04:51	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	06/10/12 04:51	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	06/10/12 04:51	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/10/12 04:51	WAT		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.21 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	06/10/12 04:51	WAT	96-12-8	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.22
Sample Tag: SB-A5.2-NY92_1.6-2
Collected Date/Time: 06/04/2012 16:15
Matrix: Soil
COC Reference: 69056

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 01:52	EMR		
Extraction, PCB	Completed			3550B	06/07/12 10:35	ADB		
Mercury Digestion	Completed			7471A	06/07/12 11:00	JRH		
Metal Digestion	Completed			3050B	06/07/12 13:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	06/05/12 12:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/08/12 12:53	PER	7440-36-0	
Arsenic	1.00	mg/kg	0.10	6020	06/08/12 12:53	PER	7440-38-2	
Barium	16.0	mg/kg	1.0	6020	06/08/12 12:53	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/08/12 12:53	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/08/12 12:53	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/08/12 12:53	PER	7440-43-9	
Chromium	3.69	mg/kg	0.21	6020	06/08/12 12:53	PER	7440-47-3	
Cobalt	27.3	mg/kg	0.21	6020	06/08/12 12:53	PER	7440-48-4	
Copper	5.88	mg/kg	0.21	6020	06/08/12 12:53	PER	7440-50-8	
Lead	4.35	mg/kg	0.21	6020	06/08/12 12:53	PER	7439-92-1	
Manganese	160	mg/kg	0.21	6020	06/08/12 12:53	PER	7439-96-5	
Mercury	0.0089	mg/kg	0.0056	7471A	06/07/12 15:27	JRT	7439-97-6	
Nickel	7.52	mg/kg	0.21	6020	06/08/12 12:53	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/08/12 12:53	PER	7782-49-2	
Silver	4.31	mg/kg	0.10	6020	06/08/12 12:53	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/08/12 12:53	PER	7440-28-0	
Vanadium	5.22	mg/kg	0.21	6020	06/08/12 12:53	PER	7440-62-2	
Zinc	10.1	mg/kg	1.0	6020	06/08/12 12:53	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082A	06/08/12 11:40	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/08/12 11:40	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/08/12 11:40	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/08/12 11:40	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/08/12 11:40	JANB	12672-29-6	
PCB-1254	30	ug/kg	3	8082A	06/08/12 11:40	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	06/08/12 11:40	JANB	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	1,100	ug/kg	800	8270C	06/10/12 15:24	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	208-96-8	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.22 (continued)

Sample Tag: SB-A5.2-NY92_1.6-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	98-86-2	
Anthracene	1,500	ug/kg	800	8270C	06/10/12 15:24	JGH	120-12-7	
Atrazine	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	06/10/12 15:24	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	100-52-7	
Benzo(a)anthracene	800	ug/kg	800	8270C	06/10/12 15:24	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	50-32-8	
Benzo(b)fluoranthene	900	ug/kg	800	8270C	06/10/12 15:24	JGH	205-99-2	p
Benzo(ghi)perylene	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	191-24-2	
Benzo(k)fluoranthene	900	ug/kg	800	8270C	06/10/12 15:24	JGH	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	105-60-2	
Carbazole	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	108-60-1	
Chrysene	1,000	ug/kg	800	8270C	06/10/12 15:24	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	06/10/12 15:24	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	06/10/12 15:24	JGH	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	06/10/12 15:24	JGH	117-81-7	
Fluoranthene	3,100	ug/kg	800	8270C	06/10/12 15:24	JGH	206-44-0	
Fluorene	23,300	ug/kg	800	8270C	06/10/12 15:24	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	193-39-5	
Isophorone	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	06/10/12 15:24	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	88-74-4	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.22 (continued)

Sample Tag: SB-A5.2-NY92_1.6-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	06/10/12 15:24	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	87-86-5	
Phenanthrene	15,600	ug/kg	800	8270C	06/10/12 15:24	JGH	85-01-8	
Phenol	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	108-95-2	
Pyrene	2,700	ug/kg	800	8270C	06/10/12 15:24	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	800	8270C	06/10/12 15:24	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/08/12 04:10	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	76-13-1	
Acetone	Not detected	ug/kg	630	5035/8260B	06/08/12 04:10	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	75-15-0	
Methyl Acetate	1,810	ug/kg	630	5035/8260B	06/08/12 04:10	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	630	5035/8260B	06/08/12 04:10	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	75-69-4	
1,1-Dichloroethene	100	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	156-60-5	
1,1-Dichloroethane	730	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	67-66-3	
1,1,1-Trichloroethane	8,530	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	630	5035/8260B	06/08/12 04:10	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	630	5035/8260B	06/08/12 04:10	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	108-87-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.22 (continued)

Sample Tag: SB-A5.2-NY92_1.6-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	79-00-5	
Tetrachloroethene	4,040	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/08/12 04:10	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:10	WAT	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.23
Sample Tag: SB-A5.2-NY92_3-4
Collected Date/Time: 06/04/2012 16:20
Matrix: Soil
COC Reference: 69056

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 9:15	CCM		
Extraction, PCB	Completed			3550B	06/07/12 10:35	ADB		
Mercury Digestion	Completed			7471A	06/07/12 11:00	JRH		
Metal Digestion	Completed			3050B	06/07/12 13:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	06/05/12 12:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/08/12 12:55	PER	7440-36-0	
Arsenic	1.17	mg/kg	0.10	6020	06/08/12 12:55	PER	7440-38-2	
Barium	16.5	mg/kg	1.0	6020	06/08/12 12:55	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/08/12 12:55	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/08/12 12:55	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/08/12 12:55	PER	7440-43-9	
Chromium	3.28	mg/kg	0.20	6020	06/08/12 12:55	PER	7440-47-3	
Cobalt	3.86	mg/kg	0.20	6020	06/08/12 12:55	PER	7440-48-4	
Copper	5.34	mg/kg	0.20	6020	06/08/12 12:55	PER	7440-50-8	
Lead	3.13	mg/kg	0.20	6020	06/08/12 12:55	PER	7439-92-1	
Manganese	194	mg/kg	0.20	6020	06/08/12 12:55	PER	7439-96-5	
Mercury	0.0059	mg/kg	0.0054	7471A	06/07/12 15:29	JRT	7439-97-6	
Nickel	6.33	mg/kg	0.20	6020	06/08/12 12:55	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/08/12 12:55	PER	7782-49-2	
Silver	0.32	mg/kg	0.10	6020	06/08/12 12:55	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/08/12 12:55	PER	7440-28-0	
Vanadium	5.06	mg/kg	0.20	6020	06/08/12 12:55	PER	7440-62-2	
Zinc	9.26	mg/kg	1.0	6020	06/08/12 12:55	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	20	8082A	06/08/12 11:58	JANB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	20	8082A	06/08/12 11:58	JANB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	20	8082A	06/08/12 11:58	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	20	8082A	06/08/12 11:58	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	20	8082A	06/08/12 11:58	JANB	12672-29-6	Y
PCB-1254	60	ug/kg	20	8082A	06/08/12 11:58	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	20	8082A	06/08/12 11:58	JANB	11096-82-5	Y

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	83-32-9	X
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Y-Elevated reporting limit due to high target concentration

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.23 (continued)

Sample Tag: SB-A5.2-NY92_3-4

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acenaphthylene	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	208-96-8	X
Acetophenone	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	98-86-2	X
Anthracene	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	120-12-7	X
Atrazine	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	4,000	8270C	06/09/12 20:40	JGH	84-74-2	X
Benzaldehyde	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	7005-72-3	X
Caprolactam	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	105-60-2	X
Carbazole	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	108-60-1	X
Chrysene	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	4,000	8270C	06/09/12 20:40	JGH	53-70-3	X
Dibenzofuran	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	4,000	8270C	06/09/12 20:40	JGH	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	4,000	8270C	06/09/12 20:40	JGH	117-81-7	X
Fluoranthene	3,000	ug/kg	2,000	8270C	06/09/12 20:40	JGH	206-44-0	X
Fluorene	21,000	ug/kg	2,000	8270C	06/09/12 20:40	JGH	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	77-47-4	X
Hexachloroethane	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	193-39-5	X
Isophorone	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	91-57-6	X
2-Methylphenol	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	4,000	8270C	06/09/12 20:40	JGH	3/4-Cresol	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.23 (continued)

Sample Tag: SB-A5.2-NY92_3-4

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	86-30-6	X
Naphthalene	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	91-20-3	X
Nitrobenzene	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	4,000	8270C	06/09/12 20:40	JGH	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	87-86-5	X
Phenanthrene	15,000	ug/kg	2,000	8270C	06/09/12 20:40	JGH	85-01-8	X
Phenol	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	108-95-2	X
Pyrene	4,000	ug/kg	2,000	8270C	06/09/12 20:40	JGH	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	2,000	8270C	06/09/12 20:40	JGH	88-06-2	X
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/08/12 04:29	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	76-13-1	
Acetone	Not detected	ug/kg	640	5035/8260B	06/08/12 04:29	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	640	5035/8260B	06/08/12 04:29	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	640	5035/8260B	06/08/12 04:29	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	75-69-4	
1,1-Dichloroethene	120	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	156-60-5	
1,1-Dichloroethane	250	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	67-66-3	
1,1,1-Trichloroethane	3,510	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	640	5035/8260B	06/08/12 04:29	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	640	5035/8260B	06/08/12 04:29	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	78-87-5	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.23 (continued)

Sample Tag: SB-A5.2-NY92_3-4

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	79-00-5	
Tetrachloroethene	2,110	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/08/12 04:29	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 04:29	WAT	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.24
Sample Tag: SB-A5.2-NY92_8-9
Collected Date/Time: 06/04/2012 16:40
Matrix: Soil
COC Reference: 69056

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 9:15	CCM		
Extraction, PCB	Completed			3550B	06/07/12 10:35	ADB		
Mercury Digestion	Completed			7471A	06/07/12 11:00	JRH		
Metal Digestion	Completed			3050B	06/07/12 13:00	PER		

Inorganics

Total Solids	93	%	1	Std M 2540 B	06/05/12 12:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/08/12 12:57	PER	7440-36-0	
Arsenic	0.90	mg/kg	0.10	6020	06/08/12 12:57	PER	7440-38-2	
Barium	35.0	mg/kg	1.0	6020	06/08/12 12:57	PER	7440-39-3	
Beryllium	0.24	mg/kg	0.20	6020	06/08/12 12:57	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/08/12 12:57	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/08/12 12:57	PER	7440-43-9	
Chromium	8.04	mg/kg	0.20	6020	06/08/12 12:57	PER	7440-47-3	
Cobalt	3.92	mg/kg	0.20	6020	06/08/12 12:57	PER	7440-48-4	
Copper	9.02	mg/kg	0.20	6020	06/08/12 12:57	PER	7440-50-8	
Lead	3.92	mg/kg	0.20	6020	06/08/12 12:57	PER	7439-92-1	
Manganese	248	mg/kg	0.20	6020	06/08/12 12:57	PER	7439-96-5	
Mercury	0.01366	mg/kg	0.0052	7471A	06/07/12 15:31	JRT	7439-97-6	
Nickel	12.5	mg/kg	0.20	6020	06/08/12 12:57	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/08/12 12:57	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/08/12 12:57	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/08/12 12:57	PER	7440-28-0	
Vanadium	9.64	mg/kg	0.20	6020	06/08/12 12:57	PER	7440-62-2	
Zinc	17.9	mg/kg	1.0	6020	06/08/12 12:57	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	06/07/12 16:25	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/07/12 16:25	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/07/12 16:25	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/07/12 16:25	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/07/12 16:25	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082A	06/07/12 16:25	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	06/07/12 16:25	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	208-96-8	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.24 (continued)

Sample Tag: SB-A5.2-NY92_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acetophenone	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/09/12 17:44	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/09/12 17:44	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/09/12 17:44	JGH	84-66-2	
Dimethyl phthalate	70	ug/kg	40	8270C	06/09/12 17:44	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/09/12 17:44	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	206-44-0	
Fluorene	40	ug/kg	40	8270C	06/09/12 17:44	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/09/12 17:44	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	88-74-4	

B-Compound also found in associated method blank



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.24 (continued)

Sample Tag: SB-A5.2-NY92_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/09/12 17:44	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/09/12 17:44	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/08/12 04:48	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	76-13-1	
Acetone	Not detected	ug/kg	700	5035/8260B	06/08/12 04:48	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	700	5035/8260B	06/08/12 04:48	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	700	5035/8260B	06/08/12 04:48	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	67-66-3	
1,1,1-Trichloroethane	130	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	700	5035/8260B	06/08/12 04:48	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	700	5035/8260B	06/08/12 04:48	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	108-87-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.24 (continued)

Sample Tag: SB-A5.2-NY92_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	79-00-5	
Tetrachloroethene	140	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/08/12 04:48	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/08/12 04:48	WAT	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.25
Sample Tag: SB-A2-EB3
Collected Date/Time: 06/04/2012 16:30
Matrix: Groundwater
COC Reference: 69056

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.1	IR
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	06/05/12 20:19	EMR		
Mercury Digestion	Completed			7471A	06/06/12 08:00	JRH		
Metal Digestion	Completed			3015A	06/07/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:01	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:01	SLS	7440-38-2	
Barium, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:01	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 00:01	SLS	7440-41-7	
Boron, Dissolved	Not detected	mg/L	0.04	6020	06/07/12 00:01	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 00:01	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:01	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:01	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:01	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:01	SLS	7439-92-1	
Manganese, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:01	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	06/06/12 14:05	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:01	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:01	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	06/07/12 00:01	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:01	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:01	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:01	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/08/12 05:16	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/08/12 05:16	PL	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	2	8270C	06/07/12 17:45	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	205-99-2	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.25 (continued)

Sample Tag: SB-A2-EB3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	06/07/12 17:45	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	06/07/12 17:45	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	06/07/12 17:45	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	06/07/12 17:45	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	98-95-3	
di-n-Octyl phthalate	1	ug/L	1	8270C	06/07/12 17:45	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	85-01-8	
Phenol	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	129-00-0	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.25 (continued)

Sample Tag: SB-A2-EB3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	06/07/12 17:45	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	100	8260B	06/10/12 04:29	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	06/10/12 04:29	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	06/10/12 04:29	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	06/10/12 04:29	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	06/10/12 04:29	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	06/10/12 04:29	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/10/12 04:29	WAT		
o-Xylene	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	100-42-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.25 (continued)

Sample Tag: SB-A2-EB3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Isopropylbenzene	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	06/10/12 04:29	WAT	96-12-8	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.26
Sample Tag: SB-A5.2-DUP73
Collected Date/Time: 06/04/2012 00:01
Matrix: Soil
COC Reference: 69056

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 9:15	CCM		
Extraction, PCB	Completed			3550B	06/07/12 10:35	ADB		
Mercury Digestion	Completed			7471A	06/07/12 11:00	JRH		
Metal Digestion	Completed			3050B	06/07/12 13:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	06/05/12 12:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/08/12 12:59	PER	7440-36-0	
Arsenic	0.83	mg/kg	0.10	6020	06/08/12 12:59	PER	7440-38-2	
Barium	5.92	mg/kg	1.0	6020	06/08/12 12:59	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/08/12 12:59	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/08/12 12:59	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/08/12 12:59	PER	7440-43-9	
Chromium	2.41	mg/kg	0.20	6020	06/08/12 12:59	PER	7440-47-3	
Cobalt	3.08	mg/kg	0.20	6020	06/08/12 12:59	PER	7440-48-4	
Copper	4.40	mg/kg	0.20	6020	06/08/12 12:59	PER	7440-50-8	
Lead	2.97	mg/kg	0.20	6020	06/08/12 12:59	PER	7439-92-1	
Manganese	128	mg/kg	0.20	6020	06/08/12 12:59	PER	7439-96-5	
Mercury	0.0072	mg/kg	0.0057	7471A	06/07/12 15:34	JRT	7439-97-6	
Nickel	5.17	mg/kg	0.20	6020	06/08/12 12:59	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/08/12 12:59	PER	7782-49-2	
Silver	0.23	mg/kg	0.10	6020	06/08/12 12:59	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/08/12 12:59	PER	7440-28-0	
Vanadium	3.68	mg/kg	0.20	6020	06/08/12 12:59	PER	7440-62-2	
Zinc	7.22	mg/kg	1.0	6020	06/08/12 12:59	PER	7440-66-6	

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/kg	3	8082A	06/08/12 12:09	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082A	06/08/12 12:09	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082A	06/08/12 12:09	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082A	06/08/12 12:09	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082A	06/08/12 12:09	JANB	12672-29-6	
PCB-1254	40	ug/kg	3	8082A	06/08/12 12:09	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082A	06/08/12 12:09	JANB	11096-82-5	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	2,000	ug/kg	2,000	8270C	06/09/12 21:10	JGH	83-32-9	X
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X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.26 (continued)

Sample Tag: SB-A5.2-DUP73

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Acenaphthylene	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	208-96-8	X
Acetophenone	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	98-86-2	X
Anthracene	3,000	ug/kg	2,000	8270C	06/09/12 21:10	JGH	120-12-7	X
Atrazine	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	4,000	8270C	06/09/12 21:10	JGH	84-74-2	X
Benzaldehyde	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	205-99-2	X
Benzo(ghi)perylene	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	7005-72-3	X
Caprolactam	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	105-60-2	X
Carbazole	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	108-60-1	X
Chrysene	2,000	ug/kg	2,000	8270C	06/09/12 21:10	JGH	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	4,000	8270C	06/09/12 21:10	JGH	53-70-3	X
Dibenzofuran	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	4,000	8270C	06/09/12 21:10	JGH	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	4,000	8270C	06/09/12 21:10	JGH	117-81-7	X
Fluoranthene	7,000	ug/kg	2,000	8270C	06/09/12 21:10	JGH	206-44-0	X
Fluorene	56,000	ug/kg	2,000	8270C	06/09/12 21:10	JGH	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	77-47-4	X
Hexachloroethane	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	193-39-5	X
Isophorone	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	91-57-6	X
2-Methylphenol	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	4,000	8270C	06/09/12 21:10	JGH	3/4-Cresol	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.26 (continued)

Sample Tag: SB-A5.2-DUP73

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Nitroaniline	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	86-30-6	X
Naphthalene	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	91-20-3	X
Nitrobenzene	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	4,000	8270C	06/09/12 21:10	JGH	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	87-86-5	X
Phenanthrene	32,000	ug/kg	2,000	8270C	06/09/12 21:10	JGH	85-01-8	X
Phenol	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	108-95-2	X
Pyrene	7,000	ug/kg	2,000	8270C	06/09/12 21:10	JGH	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	2,000	8270C	06/09/12 21:10	JGH	88-06-2	X
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/08/12 05:07	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	76-13-1	
Acetone	Not detected	ug/kg	630	5035/8260B	06/08/12 05:07	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	630	5035/8260B	06/08/12 05:07	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	630	5035/8260B	06/08/12 05:07	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	156-60-5	
1,1-Dichloroethane	260	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	67-66-3	
1,1,1-Trichloroethane	3,310	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	630	5035/8260B	06/08/12 05:07	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	630	5035/8260B	06/08/12 05:07	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	78-87-5	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Revised Report

Lab Sample ID: S52742.26 (continued)

Sample Tag: SB-A5.2-DUP73

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	79-00-5	
Tetrachloroethene	2,280	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/08/12 05:07	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/08/12 05:07	WAT	120-82-1	



2680 East Lansing Dr., East Lansing, MI 48823
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C.O.C. PAGE # 1 OF 2

69057

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Randy Christensen			
COMPANY ARCADIS			
ADDRESS 10559 Citiation Drive Suite 100			
CITY Brighton	STATE MI	ZIP CODE 48116	
PHONE NO. 810-225-1910	FAX NO.	P.O. NO. PO 125077	
E-MAIL ADDRESS randy.christensen@arcadis-us.com		QUOTE NO. Task# 5	

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti	STATE MI	ZIP CODE 48198	
PHONE NO. 313-486-9208	E-MAIL ADDRESS dfavero@racertrust.org		

PROJECT NO./NAME Lansing Plant 2 Project# 800644 7/9/2012	SAMPLER(S) - PLEASE PRINT/SIGN NAME Megan Mockley / MSA Mockley
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☒ OTHER 3 day TAT	
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER	

MATRIX CODE	GW-GROUNDWATER	WW-WASTEWATER	S-SOIL	L-LIQUID	SD-SOLID
	SL-SLUDGE	DW-DRINKING WATER	O-OIL	WP-WIPE	A-AIR

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)									
Certifications ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES Project Locations ☐ Detroit ☐ New York ☒ Other Lansing Special Instructions									

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives									
	DATE	TIME				NONE	HCl	HNO3	H2SO4	NaOH	NaOCl	OTHER	VOCs/1,4 Dioxane	SVOCs	PCBs
5274201641121054			SB-A2-PB67-0-1	S	2								X	X	X
02	1116		SB-A2-PB67-9.5-10.5	S	2								X	X	X
03			SB-A2-DUP71	S	2								X	X	X
14/05/06	1120		SB-A2-PB67-16-17	S	6								X	X	X
07	1202		SB-A2-PA65-1-2	S	2								X	X	X
08	1218		SB-A2-PA65-9.5-10.5	S	2								X	X	X
09/10/11	1230		SB-A2-PA65-16-17	S	6								X	X	X
12	1413		SB-A2-PD65-1-2	S	2								X	X	X
13	1421		SB-A2-PD65-9-10	S	2								X	X	X
14	1430		SB-A2-PD65-16-17	S	2								X	X	X
15	1433		SB-A2-PD65-15-16	S	2								X	X	X
16	1517		SB-A2-PC641-2	S	2								X	X	X

RELINQUISHED BY: Megan Mockley	DATE 6/24	TIME 8:40
SIGNATURE/ORGANIZATION MSA Mockley		
RELINQUISHED BY: Sam	DATE 6/24	TIME 8:40
SIGNATURE/ORGANIZATION MSA Mockley		
RELINQUISHED BY:	DATE	TIME
SIGNATURE/ORGANIZATION		
RELINQUISHED BY:	DATE	TIME
SIGNATURE/ORGANIZATION		

RELINQUISHED BY:	DATE	TIME
SIGNATURE/ORGANIZATION		
RELINQUISHED BY:	DATE	TIME
SIGNATURE/ORGANIZATION Yavard	6-5-12	0900
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
NOTES:		TEMP. ON ARRIVAL 4.1



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C.O.C. PAGE # 2 OF

69056

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME **Randy Christensen**
COMPANY **ARCADIS**
ADDRESS **10559 Citiation Drive Suite 100**
CITY **Brighton** STATE **MI** ZIP CODE **48116**
PHONE NO. **810-225-1910** FAX NO. **PO 125047**
E-MAIL ADDRESS **randy.christensen@arcadis-us.com**
P.O. NO. **Task# 5**

CONTACT NAME **Dave Favero** ☐ SAME
COMPANY **RACER TRUST**
ADDRESS **2930 Ecorse Road**
CITY **Ypsilanti** STATE **MI** ZIP CODE **48198**
PHONE NO. **313-486-9208** E-MAIL ADDRESS **dfavero@racetrust.org**

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME **Lansing Plant 2 Project# 800644 7/9/2012** SAMPLER(S) - PLEASE PRINT/SIGN NAME **Meagan Mackley**
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☒ OTHER **5 day TAT**
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW-GROUNDWATER WW-WASTEWATER S-SOIL L-LIQUID SD-SOLID
SL-SLUDGE DW-DRINKING WATER O-OIL WP-WIPE A-AIR W-WASTE

Containers & Preservatives

MERIT LAB NO.	YEAR	DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	MeOH	MeOH	OTHER	VOCs 1,4 Dioxane	SVOCs	PCBs	Metals (w/Hg)	Dryweight/70m	Certifications
5874217	6/4/12	1545		SB-A2-PC64-5-6	S	2								X	X		X	X	☐ OHIO VAP ☐ Drinking Water
18		1550		SB-A2-PC64-15-16	S	2								X	X		X	X	☐ DoD ☐ NPDES
19				SB-A2-DUP72	S	2								X	X		X	X	Project Locations
20		91606		SB-A2-PC64-18-19	S	2								X	X		X	X	☐ Detroit ☐ New York
21				TRIP BLANK	L	1	X							X	X				☒ Other Lansing
22		1615		SB-A5.2-NY92-1.6-2	S	2								X	X	X	X	X	Special Instructions
23		1620		SB-A5.2-NY92-3-4	S	2								X	X	X	X	X	
24		1640		SB-A5.2-NY92-8-9	S	2								X	X	X	X	X	
25		1630		SB-A2-EB3	S	2								X	X		X		
26	6/4/12			SB-A5.2-DUP73	S	2	X							X	X	X	X	X	

RELINQUISHED BY: **Meagan Mackley** DATE **6-5-12** TIME **9:00**
SIGNATURE/ORGANIZATION **Meagan Mackley**
RELINQUISHED BY: **Meagan Mackley** DATE **6-5-12** TIME **9:00**
SIGNATURE/ORGANIZATION **Meagan Mackley**
RELINQUISHED BY: **Meagan Mackley** DATE **6-5-12** TIME **9:00**
SIGNATURE/ORGANIZATION **Meagan Mackley**

RELINQUISHED BY: **Meagan Mackley** DATE **6-5-12** TIME **9:00**
SIGNATURE/ORGANIZATION **Meagan Mackley**
RELINQUISHED BY: **Meagan Mackley** DATE **6-5-12** TIME **9:00**
SIGNATURE/ORGANIZATION **Meagan Mackley**
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS **Meagan Mackley**
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS **Meagan Mackley**
NOTES: **TEMP. ON ARRIVAL 4.1**

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



Analytical Laboratory Report

Supplemental Report

Report ID: S52757.01(03)

Generated on 07/03/2012

Replaces report S52757.01(02) generated on 06/13/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52757.01-S52757.35

Project: Lansing Plant #2 Project# B0064479.2012

Collected Date: 06/05/2012

Submitted Date/Time: 06/06/2012 09:45

Sampled by: Megan Meckley

P.O. #: PO125047

Added 1,4-Dioxane, SIMS

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Supplemental Report

Sample Summary (35 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52757.01	SB-A5.3-OX124_10-11	Soil	06/05/2012 09:08
S52757.02	SB-A5.3-OX124_8-12	Groundwater	06/05/2012 09:24
S52757.03	SB-A5.3-DUP76	Soil	06/05/2012 00:01
S52757.04	SB-A5.3-OX124_14-15	Soil	06/05/2012 10:11
S52757.05	SB-A4-MX61_1-2	Soil	06/05/2012 11:35
S52757.06	SB-A4-MX61_1-2 MS	Soil	06/05/2012 11:35
S52757.07	SB-A4-MX61_1-2 MSD	Soil	06/05/2012 11:35
S52757.08	SB-A4-MX61_10-11	Soil	06/05/2012 11:55
S52757.09	SB-A4-MX61_16-17	Soil	06/05/2012 11:58
S52757.10	SB-A4-MX58_1-2	Soil	06/05/2012 12:05
S52757.11	SB-A4-MX58_5-6	Soil	06/05/2012 12:35
S52757.12	SB-A4-MX58_8-12	Groundwater	06/05/2012 12:45
S52757.13	SB-A4-MX58_16-17	Soil	06/05/2012 13:40
S52757.14	SB-A4-DUP77	Soil	06/05/2012 00:01
S52757.15	Trip Blank	Groundwater	06/05/2012 00:01
S52757.16	SB-A5.1-MI125_1-2	Soil	06/05/2012 14:51
S52757.17	SB-A5.1-MG123_1-2	Soil	06/05/2012 15:04
S52757.18	SB-A5.1-MC123_1-2	Soil	06/05/2012 15:13
S52757.19	SB-A5.1-MI125_8-12	Groundwater	06/05/2012 15:50
S52757.20	SB-A5.1-MI125_11-12	Soil	06/05/2012 15:55
S52757.21	SB-A5.1-MI125_16-17	Soil	06/05/2012 15:58
S52757.22	SB-A5.1-MI125_16-17 MS	Soil	06/05/2012 15:58
S52757.23	SB-A5.1-MI125_16-17 MSD	Soil	06/05/2012 15:58
S52757.24	SB-A5.1-MG123_10-11	Soil	06/05/2012 16:18
S52757.25	SB-A5.1-MG123_20-21	Soil	06/05/2012 16:20
S52757.26	SB-A5.1-MG123_12-16	Groundwater	06/05/2012 16:50
S52757.27	SB-A5.1-MC123_6-7	Soil	06/05/2012 17:10
S52757.28	SB-A5.1-MC123_16-17	Soil	06/05/2012 17:20
S52757.29	SB-A5.1-DUP81	Soil	06/05/2012 00:01
S52757.30	SB-A5.1-MC123_12-16	Groundwater	06/05/2012 17:35
S52757.31	SB-A5.1-MC123_12-16 MS	Groundwater	06/05/2012 17:35
S52757.32	SB-A5.1-MC123_12-16 MSD	Groundwater	06/05/2012 17:35
S52757.33	SB-A5.1-MI119_1-2	Soil	06/05/2012 18:05
S52757.34	SB-A5.1-MI119_15-16	Soil	06/05/2012 18:10
S52757.35	SB-A5.1-MI119_9-13	Groundwater	06/05/2012 18:30



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.01

Sample Tag: SB-A5.3-OX124_10-11

Collected Date/Time: 06/05/2012 09:08

Matrix: Soil

COC Reference: 69068

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 15:27	CCM		
Mercury Digestion	Completed			7471A	06/07/12 14:35	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:00	PER		

Inorganics

Total Solids	67	%	1	Std M 2540 B	06/06/12 14:30	WAR		
--------------	----	---	---	--------------	----------------	-----	--	--

Metals

Antimony	Not detected	mg/kg	0.20	6020	06/11/12 14:32	PER	7440-36-0	
Arsenic	3.84	mg/kg	0.10	6020	06/11/12 14:32	PER	7440-38-2	
Barium	25.1	mg/kg	1.0	6020	06/11/12 14:32	PER	7440-39-3	
Beryllium	0.23	mg/kg	0.20	6020	06/11/12 14:32	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/11/12 14:32	PER	7440-42-8	
Cadmium	0.12	mg/kg	0.10	6020	06/11/12 14:32	PER	7440-43-9	
Chromium	7.11	mg/kg	0.20	6020	06/11/12 14:32	PER	7440-47-3	
Cobalt	6.25	mg/kg	0.20	6020	06/11/12 14:32	PER	7440-48-4	
Copper	12.4	mg/kg	0.20	6020	06/11/12 14:32	PER	7440-50-8	
Lead	6.20	mg/kg	0.20	6020	06/11/12 14:32	PER	7439-92-1	
Manganese	416	mg/kg	0.20	6020	06/11/12 14:32	PER	7439-96-5	
Mercury	0.0087	mg/kg	0.0072	7471A	06/08/12 12:51	JRT	7439-97-6	
Nickel	19.1	mg/kg	0.20	6020	06/11/12 14:32	PER	7440-02-0	
Selenium	0.25	mg/kg	0.20	6020	06/11/12 14:32	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/11/12 14:32	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/11/12 14:32	PER	7440-28-0	
Vanadium	14.6	mg/kg	0.20	6020	06/11/12 14:32	PER	7440-62-2	
Zinc	19.5	mg/kg	1.0	6020	06/11/12 14:32	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	83-32-9	X
Acenaphthylene	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	208-96-8	X
Acetophenone	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	98-86-2	X
Anthracene	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	120-12-7	X
Atrazine	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	06/10/12 16:52	JGH	84-74-2	X
Benzaldehyde	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	205-99-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.01 (continued)

Sample Tag: SB-A5.3-OX124_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	7005-72-3	X
Caprolactam	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	105-60-2	X
Carbazole	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	108-60-1	X
Chrysene	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	06/10/12 16:52	JGH	53-70-3	X
Dibenzofuran	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	06/10/12 16:52	JGH	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	06/10/12 16:52	JGH	117-81-7	X
Fluoranthene	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	206-44-0	X
Fluorene	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	77-47-4	X
Hexachloroethane	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	193-39-5	X
Isophorone	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	91-57-6	X
2-Methylphenol	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	06/10/12 16:52	JGH	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	86-30-6	X
Naphthalene	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	91-20-3	X
Nitrobenzene	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	06/10/12 16:52	JGH	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	87-86-5	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.01 (continued)

Sample Tag: SB-A5.3-OX124_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenanthrene	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	85-01-8	X
Phenol	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	108-95-2	X
Pyrene	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	1,000	8270C	06/10/12 16:52	JGH	88-06-2	X
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	10,000	8260B	06/09/12 04:57	WAT	123-91-1	
TCL Volatile Organics HighLevel 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	76-13-1	
Acetone	Not detected	ug/kg	1,100	5035/8260B	06/09/12 04:57	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	1,100	5035/8260B	06/09/12 04:57	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	1,100	5035/8260B	06/09/12 04:57	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	156-59-2	
Chloroform	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	1,100	5035/8260B	06/09/12 04:57	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	1,100	5035/8260B	06/09/12 04:57	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	56-23-5	
Benzene	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	10061-01-5	
Toluene	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	79-34-5	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.01 (continued)

Sample Tag: SB-A5.3-OX124_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	200	5035/8260B	06/09/12 04:57	WAT		
o-Xylene	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	95-47-6	
Styrene	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	100	5035/8260B	06/09/12 04:57	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.02
Sample Tag: SB-A5.3-OX124_8-12
Collected Date/Time: 06/05/2012 09:24
Matrix: Groundwater
COC Reference: 69068

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.1	IR
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	06/08/12 18:58	EMR		
Mercury Digestion	Completed			7471A	06/08/12 12:00	JRH		
Metal Digestion	Completed			3015A	06/07/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:13	SLS	7440-36-0	
Arsenic, Dissolved	0.015	mg/L	0.002	6020	06/07/12 00:13	SLS	7440-38-2	
Barium, Dissolved	0.098	mg/L	0.010	6020	06/07/12 00:13	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 00:13	SLS	7440-41-7	
Boron, Dissolved	0.34	mg/L	0.04	6020	06/07/12 00:13	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 00:13	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:13	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:13	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:13	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:13	SLS	7439-92-1	
Manganese, Dissolved	0.506	mg/L	0.010	6020	06/07/12 00:13	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	06/08/12 15:09	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:13	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:13	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	06/07/12 00:13	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:13	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:13	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:13	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/13/12 02:59	JGH	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/13/12 02:59	JGH	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	205-99-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.02 (continued)

Sample Tag: SB-A5.3-OX124_8-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	06/12/12 18:24	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	120-83-2	
2,4-Dimethylphenol	8	ug/L	1	8270C	06/12/12 18:24	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	06/12/12 18:24	JGH	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	06/12/12 18:24	JGH	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	06/12/12 18:24	JGH	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	95-48-7	
3-, 4-Methylphenol	11	ug/L	1	8270C	06/12/12 18:24	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	85-01-8	
Phenol	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	129-00-0	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.02 (continued)

Sample Tag: SB-A5.3-OX124_8-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	06/12/12 18:24	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	25	8260B - SIM	06/28/12 14:10	JGH	123-91-1	X1F
1,4-Dioxane	Not detected	ug/L	100	8260B	06/12/12 12:46	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	06/12/12 12:46	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	06/12/12 12:46	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	06/12/12 12:46	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	74-83-9	
Chloroethane	81	ug/L	1	8260B	06/12/12 12:46	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	156-60-5	
1,1-Dichloroethane	52	ug/L	1	8260B	06/12/12 12:46	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	06/12/12 12:46	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	06/12/12 12:46	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/12/12 12:46	WAT		

X-Elevated reporting limit due to matrix interference 1-Analysis performed outside of holding time per client request. F-Analysis run outside of holding time



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.02 (continued)

Sample Tag: SB-A5.3-OX124_8-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	06/12/12 12:46	WAT	96-12-8	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.03
Sample Tag: SB-A5.3-DUP76
Collected Date/Time: 06/05/2012 00:01
Matrix: Soil
COC Reference: 69068

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 15:27	CCM		
Mercury Digestion	Completed			7471A	06/07/12 14:35	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/11/12 14:25	PER	7440-36-0	
Arsenic	3.42	mg/kg	0.10	6020	06/11/12 14:25	PER	7440-38-2	
Barium	17.5	mg/kg	1.0	6020	06/11/12 14:25	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/11/12 14:25	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/11/12 14:25	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/11/12 14:25	PER	7440-43-9	
Chromium	4.55	mg/kg	0.20	6020	06/11/12 14:25	PER	7440-47-3	
Cobalt	4.07	mg/kg	0.20	6020	06/11/12 14:25	PER	7440-48-4	
Copper	8.18	mg/kg	0.20	6020	06/11/12 14:25	PER	7440-50-8	
Lead	4.55	mg/kg	0.20	6020	06/11/12 14:25	PER	7439-92-1	
Manganese	296	mg/kg	0.20	6020	06/11/12 14:25	PER	7439-96-5	
Mercury	0.0060	mg/kg	0.0055	7471A	06/08/12 12:53	JRT	7439-97-6	
Nickel	12.0	mg/kg	0.20	6020	06/11/12 14:25	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/11/12 14:25	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/11/12 14:25	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/11/12 14:25	PER	7440-28-0	
Vanadium	9.27	mg/kg	0.20	6020	06/11/12 14:25	PER	7440-62-2	
Zinc	14.2	mg/kg	1.0	6020	06/11/12 14:25	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	83-32-9	X
Acenaphthylene	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	208-96-8	X
Acetophenone	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	98-86-2	X
Anthracene	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	120-12-7	X
Atrazine	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	06/10/12 17:22	JGH	84-74-2	X
Benzaldehyde	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	205-99-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.03 (continued)

Sample Tag: SB-A5.3-DUP76

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	7005-72-3	X
Caprolactam	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	105-60-2	X
Carbazole	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	108-60-1	X
Chrysene	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	06/10/12 17:22	JGH	53-70-3	X
Dibenzofuran	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	06/10/12 17:22	JGH	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	06/10/12 17:22	JGH	117-81-7	X
Fluoranthene	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	206-44-0	X
Fluorene	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	77-47-4	X
Hexachloroethane	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	193-39-5	X
Isophorone	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	91-57-6	X
2-Methylphenol	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	06/10/12 17:22	JGH	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	86-30-6	X
Naphthalene	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	91-20-3	X
Nitrobenzene	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	06/10/12 17:22	JGH	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	87-86-5	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.03 (continued)

Sample Tag: SB-A5.3-DUP76

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenanthrene	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	85-01-8	X
Phenol	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	108-95-2	X
Pyrene	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	1,000	8270C	06/10/12 17:22	JGH	88-06-2	X
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	8,000	8260B	06/09/12 05:16	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	76-13-1	
Acetone	Not detected	ug/kg	790	5035/8260B	06/09/12 05:16	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	790	5035/8260B	06/09/12 05:16	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	790	5035/8260B	06/09/12 05:16	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	156-59-2	
Chloroform	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	790	5035/8260B	06/09/12 05:16	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	790	5035/8260B	06/09/12 05:16	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	56-23-5	
Benzene	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	10061-01-5	
Toluene	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	79-34-5	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.03 (continued)

Sample Tag: SB-A5.3-DUP76

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	200	5035/8260B	06/09/12 05:16	WAT		
o-Xylene	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	95-47-6	
Styrene	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	98-82-8	
Bromoform	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/09/12 05:16	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.04

Sample Tag: SB-A5.3-OX124_14-15

Collected Date/Time: 06/05/2012 10:11

Matrix: Soil

COC Reference: 69068

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 15:27	CCM		
Mercury Digestion	Completed			7471A	06/07/12 14:35	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/11/12 14:27	PER	7440-36-0	
Arsenic	4.64	mg/kg	0.10	6020	06/11/12 14:27	PER	7440-38-2	
Barium	10.4	mg/kg	1.0	6020	06/11/12 14:27	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/11/12 14:27	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/11/12 14:27	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/11/12 14:27	PER	7440-43-9	
Chromium	3.48	mg/kg	0.20	6020	06/11/12 14:27	PER	7440-47-3	
Cobalt	2.66	mg/kg	0.20	6020	06/11/12 14:27	PER	7440-48-4	
Copper	5.37	mg/kg	0.20	6020	06/11/12 14:27	PER	7440-50-8	
Lead	2.83	mg/kg	0.20	6020	06/11/12 14:27	PER	7439-92-1	
Manganese	182	mg/kg	0.20	6020	06/11/12 14:27	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0057	7471A	06/08/12 12:55	JRT	7439-97-6	
Nickel	8.18	mg/kg	0.20	6020	06/11/12 14:27	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/11/12 14:27	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/11/12 14:27	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/11/12 14:27	PER	7440-28-0	
Vanadium	5.11	mg/kg	0.20	6020	06/11/12 14:27	PER	7440-62-2	
Zinc	8.54	mg/kg	1.0	6020	06/11/12 14:27	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	83-32-9	X
Acenaphthylene	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	208-96-8	X
Acetophenone	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	98-86-2	X
Anthracene	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	120-12-7	X
Atrazine	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	06/10/12 17:52	JGH	84-74-2	X
Benzaldehyde	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	205-99-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.04 (continued)

Sample Tag: SB-A5.3-OX124_14-15

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	7005-72-3	X
Caprolactam	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	105-60-2	X
Carbazole	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	108-60-1	X
Chrysene	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	06/10/12 17:52	JGH	53-70-3	X
Dibenzofuran	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	06/10/12 17:52	JGH	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	06/10/12 17:52	JGH	117-81-7	X
Fluoranthene	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	206-44-0	X
Fluorene	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	77-47-4	X
Hexachloroethane	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	193-39-5	X
Isophorone	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	91-57-6	X
2-Methylphenol	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	06/10/12 17:52	JGH	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	86-30-6	X
Naphthalene	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	91-20-3	X
Nitrobenzene	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	06/10/12 17:52	JGH	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	87-86-5	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.04 (continued)

Sample Tag: SB-A5.3-OX124_14-15

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenanthrene	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	85-01-8	X
Phenol	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	108-95-2	X
Pyrene	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	800	8270C	06/10/12 17:52	JGH	88-06-2	X
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/09/12 05:35	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	76-13-1	
Acetone	Not detected	ug/kg	660	5035/8260B	06/09/12 05:35	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	660	5035/8260B	06/09/12 05:35	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	660	5035/8260B	06/09/12 05:35	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	660	5035/8260B	06/09/12 05:35	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	660	5035/8260B	06/09/12 05:35	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	79-34-5	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.04 (continued)

Sample Tag: SB-A5.3-OX124_14-15

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/09/12 05:35	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/09/12 05:35	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.05

Sample Tag: SB-A4-MX61_1-2

Collected Date/Time: 06/05/2012 11:35

Matrix: Soil

COC Reference: 69068

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 15:27	CCM		
Mercury Digestion	Completed			7471A	06/07/12 14:35	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:00	PER		

Inorganics

Total Solids	94	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/11/12 14:38	PER	7440-36-0	
Arsenic	0.60	mg/kg	0.10	6020	06/11/12 14:38	PER	7440-38-2	
Barium	9.06	mg/kg	1.0	6020	06/11/12 14:38	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/11/12 14:38	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/11/12 14:38	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/11/12 14:38	PER	7440-43-9	
Chromium	2.31	mg/kg	0.20	6020	06/11/12 14:38	PER	7440-47-3	
Cobalt	18.4	mg/kg	0.20	6020	06/11/12 14:38	PER	7440-48-4	
Copper	2.43	mg/kg	0.20	6020	06/11/12 14:38	PER	7440-50-8	
Lead	2.24	mg/kg	0.20	6020	06/11/12 14:38	PER	7439-92-1	
Manganese	124	mg/kg	0.20	6020	06/11/12 14:38	PER	7439-96-5	
Mercury	0.0083	mg/kg	0.0053	7471A	06/08/12 13:02	JRT	7439-97-6	
Nickel	4.15	mg/kg	0.20	6020	06/11/12 14:38	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/11/12 14:38	PER	7782-49-2	
Silver	2.25	mg/kg	0.10	6020	06/11/12 14:38	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/11/12 14:38	PER	7440-28-0	
Vanadium	2.74	mg/kg	0.20	6020	06/11/12 14:38	PER	7440-62-2	
Zinc	5.23	mg/kg	1.0	6020	06/11/12 14:38	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	98-86-2	
Anthracene	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	120-12-7	
Atrazine	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	300	8270C	06/10/12 18:27	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.05 (continued)

Sample Tag: SB-A4-MX61_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	105-60-2	
Carbazole	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	108-60-1	
Chrysene	500	ug/kg	100	8270C	06/10/12 18:27	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	8270C	06/10/12 18:27	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	132-64-9	
Diethyl phthalate	1,000	ug/kg	300	8270C	06/10/12 18:27	JGH	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	131-11-3	
bis(2-Ethylhexyl)phthalate	900	ug/kg	300	8270C	06/10/12 18:27	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	206-44-0	
Fluorene	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	193-39-5	
Isophorone	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	300	8270C	06/10/12 18:27	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	300	8270C	06/10/12 18:27	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	85-01-8	
Phenol	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	108-95-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.05 (continued)

Sample Tag: SB-A4-MX61_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	100	8270C	06/10/12 18:27	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/11/12 17:39	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	76-13-1	
Acetone	Not detected	ug/kg	570	5035/8260B	06/10/12 04:26	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	570	5035/8260B	06/10/12 04:26	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	570	5035/8260B	06/10/12 04:26	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	570	5035/8260B	06/10/12 04:26	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	570	5035/8260B	06/10/12 04:26	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/10/12 04:26	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	95-47-6	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.05 (continued)

Sample Tag: SB-A4-MX61_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Styrene	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/10/12 04:26	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.06

Sample Tag: SB-A4-MX61_1-2 MS

Collected Date/Time: 06/05/2012 11:35

Matrix: Soil

COC Reference: 69068

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 15:27	CCM		
Mercury Digestion	Completed			7471A	06/07/12 14:35	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:00	PER		

Inorganics

Total Solids	94	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	21.3	mg/kg	0.20	6020	06/11/12 14:48	PER	7440-36-0	
Arsenic	21.8	mg/kg	0.10	6020	06/11/12 14:48	PER	7440-38-2	
Barium	28.6	mg/kg	1.0	6020	06/11/12 14:48	PER	7440-39-3	
Beryllium	19.9	mg/kg	0.20	6020	06/11/12 14:48	PER	7440-41-7	
Boron	19.6	mg/kg	4.0	6020	06/11/12 14:48	PER	7440-42-8	
Cadmium	20.1	mg/kg	0.10	6020	06/11/12 14:48	PER	7440-43-9	
Chromium	23.5	mg/kg	0.20	6020	06/11/12 14:48	PER	7440-47-3	
Cobalt	39.1	mg/kg	0.20	6020	06/11/12 14:48	PER	7440-48-4	
Copper	21.2	mg/kg	0.20	6020	06/11/12 14:48	PER	7440-50-8	
Lead	21.2	mg/kg	0.20	6020	06/11/12 14:48	PER	7439-92-1	
Manganese	144	mg/kg	0.20	6020	06/11/12 14:48	PER	7439-96-5	
Mercury	0.1237	mg/kg	0.0053	7471A	06/08/12 13:04	JRT	7439-97-6	
Nickel	24.0	mg/kg	0.20	6020	06/11/12 14:48	PER	7440-02-0	
Selenium	21.3	mg/kg	0.20	6020	06/11/12 14:48	PER	7782-49-2	
Silver	21.7	mg/kg	0.10	6020	06/11/12 14:48	PER	7440-22-4	
Thallium	19.4	mg/kg	0.20	6020	06/11/12 14:48	PER	7440-28-0	
Vanadium	24.4	mg/kg	0.20	6020	06/11/12 14:48	PER	7440-62-2	
Zinc	24.4	mg/kg	1.0	6020	06/11/12 14:48	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,900	ug/kg	100	8270C	06/10/12 18:57	JGH	83-32-9	1
Acenaphthylene	2,000	ug/kg	100	8270C	06/10/12 18:57	JGH	208-96-8	1
Acetophenone	1,600	ug/kg	100	8270C	06/10/12 18:57	JGH	98-86-2	1
Anthracene	1,700	ug/kg	100	8270C	06/10/12 18:57	JGH	120-12-7	1
Atrazine	1,900	ug/kg	100	8270C	06/10/12 18:57	JGH	1912-24-9	1
1,1'-Biphenyl	1,800	ug/kg	100	8270C	06/10/12 18:57	JGH	92-52-4	1
4-Bromophenyl phenyl ether	1,800	ug/kg	100	8270C	06/10/12 18:57	JGH	101-55-3	1
di-n-Butyl phthalate	1,700	ug/kg	300	8270C	06/10/12 18:57	JGH	84-74-2	1B
Benzaldehyde	1,500	ug/kg	100	8270C	06/10/12 18:57	JGH	100-52-7	1
Benzo(a)anthracene	1,900	ug/kg	100	8270C	06/10/12 18:57	JGH	56-55-3	1
Benzo(a)pyrene	1,700	ug/kg	100	8270C	06/10/12 18:57	JGH	50-32-8	1

1-Spiked at 1.67mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.06 (continued)

Sample Tag: SB-A4-MX61_1-2 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(b)fluoranthene	1,800	ug/kg	100	8270C	06/10/12 18:57	JGH	205-99-2	1
Benzo(ghi)perylene	2,000	ug/kg	100	8270C	06/10/12 18:57	JGH	191-24-2	1
Benzo(k)fluoranthene	1,800	ug/kg	100	8270C	06/10/12 18:57	JGH	207-08-9	1
Butyl benzyl phthalate	1,900	ug/kg	100	8270C	06/10/12 18:57	JGH	85-68-7	1
2-Chloronaphthalene	1,800	ug/kg	100	8270C	06/10/12 18:57	JGH	91-58-7	1
2-Chlorophenol	1,600	ug/kg	100	8270C	06/10/12 18:57	JGH	95-57-8	1
4-Chloro-3-methylphenol	1,700	ug/kg	100	8270C	06/10/12 18:57	JGH	59-50-7	1
4-Chloroaniline	600	ug/kg	100	8270C	06/10/12 18:57	JGH	106-47-8	1
4-Chlorophenyl phenyl ether	2,500	ug/kg	100	8270C	06/10/12 18:57	JGH	7005-72-3	1
Caprolactam	1,700	ug/kg	100	8270C	06/10/12 18:57	JGH	105-60-2	1
Carbazole	1,900	ug/kg	100	8270C	06/10/12 18:57	JGH	86-74-8	1
bis(2-Chloroethoxy)methane	1,500	ug/kg	100	8270C	06/10/12 18:57	JGH	111-91-1	1
bis(2-Chloroethyl)ether	1,600	ug/kg	100	8270C	06/10/12 18:57	JGH	111-44-4	1
bis(2-Chloroisopropyl)ether	1,600	ug/kg	100	8270C	06/10/12 18:57	JGH	108-60-1	1
Chrysene	1,800	ug/kg	100	8270C	06/10/12 18:57	JGH	218-01-9	1
2,4-Dichlorophenol	1,600	ug/kg	100	8270C	06/10/12 18:57	JGH	120-83-2	1
2,4-Dimethylphenol	1,600	ug/kg	100	8270C	06/10/12 18:57	JGH	105-67-9	1
2,4-Dinitrophenol	400	ug/kg	100	8270C	06/10/12 18:57	JGH	51-28-5	1
2,4-Dinitrotoluene	1,700	ug/kg	100	8270C	06/10/12 18:57	JGH	121-14-2	1
2,6-Dinitrotoluene	1,900	ug/kg	100	8270C	06/10/12 18:57	JGH	606-20-2	1
3,3'-Dichlorobenzidine	1,600	ug/kg	100	8270C	06/10/12 18:57	JGH	91-94-1	1
4,6-Dinitro-2-methylphenol	900	ug/kg	100	8270C	06/10/12 18:57	JGH	534-52-1	1
Dibenzo(ah)anthracene	2,000	ug/kg	300	8270C	06/10/12 18:57	JGH	53-70-3	1
Dibenzofuran	1,900	ug/kg	100	8270C	06/10/12 18:57	JGH	132-64-9	1
Diethyl phthalate	1,900	ug/kg	300	8270C	06/10/12 18:57	JGH	84-66-2	1
Dimethyl phthalate	1,900	ug/kg	100	8270C	06/10/12 18:57	JGH	131-11-3	1B
bis(2-Ethylhexyl)phthalate	2,000	ug/kg	300	8270C	06/10/12 18:57	JGH	117-81-7	1
Fluoranthene	1,800	ug/kg	100	8270C	06/10/12 18:57	JGH	206-44-0	1
Fluorene	2,400	ug/kg	100	8270C	06/10/12 18:57	JGH	86-73-7	1
Hexachlorobenzene	1,800	ug/kg	100	8270C	06/10/12 18:57	JGH	118-74-1	1
Hexachlorobutadiene	1,500	ug/kg	100	8270C	06/10/12 18:57	JGH	87-68-3	1
Hexachlorocyclopentadiene	1,000	ug/kg	100	8270C	06/10/12 18:57	JGH	77-47-4	1
Hexachloroethane	1,500	ug/kg	100	8270C	06/10/12 18:57	JGH	67-72-1	1
Indeno(1,2,3-cd)pyrene	2,000	ug/kg	100	8270C	06/10/12 18:57	JGH	193-39-5	1
Isophorone	1,600	ug/kg	100	8270C	06/10/12 18:57	JGH	78-59-1	1
2-Methylnaphthalene	1,700	ug/kg	100	8270C	06/10/12 18:57	JGH	91-57-6	1
2-Methylphenol	1,700	ug/kg	100	8270C	06/10/12 18:57	JGH	95-48-7	1
3-, 4-Methylphenol	1,900	ug/kg	300	8270C	06/10/12 18:57	JGH	3/4-Cresol	1
2-Nitroaniline	1,700	ug/kg	100	8270C	06/10/12 18:57	JGH	88-74-4	1
2-Nitrophenol	1,500	ug/kg	100	8270C	06/10/12 18:57	JGH	88-75-5	1
3-Nitroaniline	1,500	ug/kg	100	8270C	06/10/12 18:57	JGH	99-09-2	1
4-Nitroaniline	1,800	ug/kg	100	8270C	06/10/12 18:57	JGH	100-01-6	1
4-Nitrophenol	1,400	ug/kg	100	8270C	06/10/12 18:57	JGH	100-02-7	1
N-Nitrosodi-n-propylamine	1,700	ug/kg	100	8270C	06/10/12 18:57	JGH	621-64-7	1
N-Nitrosodiphenylamine	1,300	ug/kg	100	8270C	06/10/12 18:57	JGH	86-30-6	1
Naphthalene	1,700	ug/kg	100	8270C	06/10/12 18:57	JGH	91-20-3	1
Nitrobenzene	1,500	ug/kg	100	8270C	06/10/12 18:57	JGH	98-95-3	1

1-Spiked at 1.67mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.06 (continued)

Sample Tag: SB-A4-MX61_1-2 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
di-n-Octyl phthalate	2,100	ug/kg	300	8270C	06/10/12 18:57	JGH	117-84-0	1
Pentachlorophenol	1,200	ug/kg	100	8270C	06/10/12 18:57	JGH	87-86-5	1
Phenanthrene	1,700	ug/kg	100	8270C	06/10/12 18:57	JGH	85-01-8	1
Phenol	1,600	ug/kg	100	8270C	06/10/12 18:57	JGH	108-95-2	1
Pyrene	1,900	ug/kg	100	8270C	06/10/12 18:57	JGH	129-00-0	1
2,4,5-Trichlorophenol	1,800	ug/kg	100	8270C	06/10/12 18:57	JGH	95-95-4	1
2,4,6-Trichlorophenol	1,700	ug/kg	100	8270C	06/10/12 18:57	JGH	88-06-2	1
Organics - Volatiles								
1,4-Dioxane	21,000	ug/kg	6,000	8260B	06/11/12 19:10	WAT	123-91-1	2
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	2,690	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	76-13-1	3
Acetone	2,820	ug/kg	590	5035/8260B	06/10/12 07:28	WAT	67-64-1	3
Carbon disulfide	2,640	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	75-15-0	3
Methyl Acetate	2,340	ug/kg	590	5035/8260B	06/10/12 07:28	WAT	79-20-9	3
tert-Methyl butyl ether (MTBE)	2,440	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	1634-04-4	3
2-Butanone (MEK)	2,520	ug/kg	590	5035/8260B	06/10/12 07:28	WAT	78-93-3	3
Dichlorodifluoromethane	2,080	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	75-71-8	3
Chloromethane	2,260	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	74-87-3	3
Vinyl chloride	2,650	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	75-01-4	3
Bromomethane	2,300	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	74-83-9	3
Chloroethane	2,200	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	75-00-3	3
Trichlorofluoromethane	2,600	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	75-69-4	3
1,1-Dichloroethene	2,450	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	75-35-4	3
Methylene chloride	2,480	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	75-09-2	3
trans-1,2-Dichloroethene	2,550	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	156-60-5	3
1,1-Dichloroethane	2,510	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	75-34-3	3
cis-1,2-Dichloroethene	2,560	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	156-59-2	3
Chloroform	2,540	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	67-66-3	3
1,1,1-Trichloroethane	2,650	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	71-55-6	3
Cyclohexane	2,090	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	110-82-7	3
4-Methyl-2-pentanone (MIBK)	2,450	ug/kg	590	5035/8260B	06/10/12 07:28	WAT	108-10-1	3
2-Hexanone	2,680	ug/kg	590	5035/8260B	06/10/12 07:28	WAT	591-78-6	3
Carbon tetrachloride	2,810	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	56-23-5	3
Benzene	2,650	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	71-43-2	3
1,2-Dichloroethane	2,550	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	107-06-2	3
Trichloroethene	2,690	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	79-01-6	3
1,2-Dichloropropane	2,690	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	78-87-5	3
Bromodichloromethane	2,670	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	75-27-4	3
Methyl cyclohexane	2,710	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	108-87-2	3
cis-1,3-Dichloropropene	2,700	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	10061-01-5	3
Toluene	2,660	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	108-88-3	3
trans-1,3-Dichloropropene	2,770	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	10061-02-6	3
1,1,2-Trichloroethane	2,640	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	79-00-5	3
Tetrachloroethene	2,680	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	127-18-4	3

1-Spiked at 1.67mg/kg

2-Spiked at 20mg/kg

3-Spiked at 2.5mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.06 (continued)

Sample Tag: SB-A4-MX61_1-2 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Dibromochloromethane	2,610	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	124-48-1	1
1,2-Dibromoethane	2,770	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	106-93-4	1
Chlorobenzene	2,750	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	108-90-7	1
1,1,2,2-Tetrachloroethane	2,620	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	79-34-5	1
Ethylbenzene	2,810	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	100-41-4	1
p,m-Xylene	5,700	ug/kg	100	5035/8260B	06/10/12 07:28	WAT		1
o-Xylene	2,850	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	95-47-6	1
Styrene	2,810	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	100-42-5	1
Isopropylbenzene	2,820	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	98-82-8	1
Bromoform	2,610	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	75-25-2	1
1,3-Dichlorobenzene	2,810	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	541-73-1	1
1,4-Dichlorobenzene	2,690	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	106-46-7	1
1,2-Dichlorobenzene	2,740	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	95-50-1	1
1,2-Dibromo-3-chloropropane	2,630	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	96-12-8	1
1,2,4-Trichlorobenzene	2,630	ug/kg	60	5035/8260B	06/10/12 07:28	WAT	120-82-1	1

1-Spiked at 2.5mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.07

Sample Tag: SB-A4-MX61_1-2 MSD

Collected Date/Time: 06/05/2012 11:35

Matrix: Soil

COC Reference: 69068

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 15:27	CCM		
Mercury Digestion	Completed			7471A	06/07/12 14:35	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:00	PER		

Inorganics

Total Solids	95	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	21.2	mg/kg	0.20	6020	06/11/12 14:50	PER	7440-36-0	
Arsenic	22.2	mg/kg	0.10	6020	06/11/12 14:50	PER	7440-38-2	
Barium	29.1	mg/kg	1.0	6020	06/11/12 14:50	PER	7440-39-3	
Beryllium	20.6	mg/kg	0.20	6020	06/11/12 14:50	PER	7440-41-7	
Boron	20.9	mg/kg	4.0	6020	06/11/12 14:50	PER	7440-42-8	
Cadmium	20.1	mg/kg	0.10	6020	06/11/12 14:50	PER	7440-43-9	
Chromium	23.7	mg/kg	0.20	6020	06/11/12 14:50	PER	7440-47-3	
Cobalt	39.4	mg/kg	0.20	6020	06/11/12 14:50	PER	7440-48-4	
Copper	21.8	mg/kg	0.20	6020	06/11/12 14:50	PER	7440-50-8	
Lead	21.5	mg/kg	0.20	6020	06/11/12 14:50	PER	7439-92-1	
Manganese	146	mg/kg	0.20	6020	06/11/12 14:50	PER	7439-96-5	
Mercury	0.1208	mg/kg	0.0052	7471A	06/08/12 13:07	JRT	7439-97-6	
Nickel	24.3	mg/kg	0.20	6020	06/11/12 14:50	PER	7440-02-0	
Selenium	21.5	mg/kg	0.20	6020	06/11/12 14:50	PER	7782-49-2	
Silver	21.6	mg/kg	0.10	6020	06/11/12 14:50	PER	7440-22-4	
Thallium	19.7	mg/kg	0.20	6020	06/11/12 14:50	PER	7440-28-0	
Vanadium	24.4	mg/kg	0.20	6020	06/11/12 14:50	PER	7440-62-2	
Zinc	24.5	mg/kg	1.0	6020	06/11/12 14:50	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,800	ug/kg	100	8270C	06/10/12 19:26	JGH	83-32-9	1
Acenaphthylene	1,900	ug/kg	100	8270C	06/10/12 19:26	JGH	208-96-8	1
Acetophenone	1,600	ug/kg	100	8270C	06/10/12 19:26	JGH	98-86-2	1
Anthracene	1,600	ug/kg	100	8270C	06/10/12 19:26	JGH	120-12-7	1
Atrazine	1,800	ug/kg	100	8270C	06/10/12 19:26	JGH	1912-24-9	1
1,1'-Biphenyl	1,700	ug/kg	100	8270C	06/10/12 19:26	JGH	92-52-4	1
4-Bromophenyl phenyl ether	1,700	ug/kg	100	8270C	06/10/12 19:26	JGH	101-55-3	1
di-n-Butyl phthalate	1,600	ug/kg	300	8270C	06/10/12 19:26	JGH	84-74-2	1B
Benzaldehyde	1,400	ug/kg	100	8270C	06/10/12 19:26	JGH	100-52-7	1
Benzo(a)anthracene	1,800	ug/kg	100	8270C	06/10/12 19:26	JGH	56-55-3	1
Benzo(a)pyrene	1,600	ug/kg	100	8270C	06/10/12 19:26	JGH	50-32-8	1

1-Spiked at 1.67mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.07 (continued)

Sample Tag: SB-A4-MX61_1-2 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(b)fluoranthene	1,800	ug/kg	100	8270C	06/10/12 19:26	JGH	205-99-2	1
Benzo(ghi)perylene	1,700	ug/kg	100	8270C	06/10/12 19:26	JGH	191-24-2	1
Benzo(k)fluoranthene	1,700	ug/kg	100	8270C	06/10/12 19:26	JGH	207-08-9	1
Butyl benzyl phthalate	1,800	ug/kg	100	8270C	06/10/12 19:26	JGH	85-68-7	1
2-Chloronaphthalene	1,800	ug/kg	100	8270C	06/10/12 19:26	JGH	91-58-7	1
2-Chlorophenol	1,500	ug/kg	100	8270C	06/10/12 19:26	JGH	95-57-8	1
4-Chloro-3-methylphenol	1,600	ug/kg	100	8270C	06/10/12 19:26	JGH	59-50-7	1
4-Chloroaniline	500	ug/kg	100	8270C	06/10/12 19:26	JGH	106-47-8	1
4-Chlorophenyl phenyl ether	2,300	ug/kg	100	8270C	06/10/12 19:26	JGH	7005-72-3	1
Caprolactam	1,700	ug/kg	100	8270C	06/10/12 19:26	JGH	105-60-2	1
Carbazole	1,700	ug/kg	100	8270C	06/10/12 19:26	JGH	86-74-8	1
bis(2-Chloroethoxy)methane	1,500	ug/kg	100	8270C	06/10/12 19:26	JGH	111-91-1	1
bis(2-Chloroethyl)ether	1,500	ug/kg	100	8270C	06/10/12 19:26	JGH	111-44-4	1
bis(2-Chloroisopropyl)ether	1,500	ug/kg	100	8270C	06/10/12 19:26	JGH	108-60-1	1
Chrysene	1,700	ug/kg	100	8270C	06/10/12 19:26	JGH	218-01-9	1
2,4-Dichlorophenol	1,600	ug/kg	100	8270C	06/10/12 19:26	JGH	120-83-2	1
2,4-Dimethylphenol	1,500	ug/kg	100	8270C	06/10/12 19:26	JGH	105-67-9	1
2,4-Dinitrophenol	300	ug/kg	100	8270C	06/10/12 19:26	JGH	51-28-5	1
2,4-Dinitrotoluene	1,600	ug/kg	100	8270C	06/10/12 19:26	JGH	121-14-2	1
2,6-Dinitrotoluene	1,900	ug/kg	100	8270C	06/10/12 19:26	JGH	606-20-2	1
3,3'-Dichlorobenzidine	1,400	ug/kg	100	8270C	06/10/12 19:26	JGH	91-94-1	1
4,6-Dinitro-2-methylphenol	800	ug/kg	100	8270C	06/10/12 19:26	JGH	534-52-1	1
Dibenzo(ah)anthracene	1,700	ug/kg	300	8270C	06/10/12 19:26	JGH	53-70-3	1
Dibenzofuran	1,800	ug/kg	100	8270C	06/10/12 19:26	JGH	132-64-9	1
Diethyl phthalate	1,700	ug/kg	300	8270C	06/10/12 19:26	JGH	84-66-2	1
Dimethyl phthalate	1,800	ug/kg	100	8270C	06/10/12 19:26	JGH	131-11-3	1B
bis(2-Ethylhexyl)phthalate	1,900	ug/kg	300	8270C	06/10/12 19:26	JGH	117-81-7	1
Fluoranthene	1,700	ug/kg	100	8270C	06/10/12 19:26	JGH	206-44-0	1
Fluorene	2,200	ug/kg	100	8270C	06/10/12 19:26	JGH	86-73-7	1
Hexachlorobenzene	1,700	ug/kg	100	8270C	06/10/12 19:26	JGH	118-74-1	1
Hexachlorobutadiene	1,500	ug/kg	100	8270C	06/10/12 19:26	JGH	87-68-3	1
Hexachlorocyclopentadiene	900	ug/kg	100	8270C	06/10/12 19:26	JGH	77-47-4	1
Hexachloroethane	1,400	ug/kg	100	8270C	06/10/12 19:26	JGH	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,700	ug/kg	100	8270C	06/10/12 19:26	JGH	193-39-5	1
Isophorone	1,600	ug/kg	100	8270C	06/10/12 19:26	JGH	78-59-1	1
2-Methylnaphthalene	1,700	ug/kg	100	8270C	06/10/12 19:26	JGH	91-57-6	1
2-Methylphenol	1,700	ug/kg	100	8270C	06/10/12 19:26	JGH	95-48-7	1
3-, 4-Methylphenol	1,900	ug/kg	300	8270C	06/10/12 19:26	JGH	3/4-Cresol	1
2-Nitroaniline	1,700	ug/kg	100	8270C	06/10/12 19:26	JGH	88-74-4	1
2-Nitrophenol	1,500	ug/kg	100	8270C	06/10/12 19:26	JGH	88-75-5	1
3-Nitroaniline	1,400	ug/kg	100	8270C	06/10/12 19:26	JGH	99-09-2	1
4-Nitroaniline	1,600	ug/kg	100	8270C	06/10/12 19:26	JGH	100-01-6	1
4-Nitrophenol	1,200	ug/kg	100	8270C	06/10/12 19:26	JGH	100-02-7	1
N-Nitrosodi-n-propylamine	1,600	ug/kg	100	8270C	06/10/12 19:26	JGH	621-64-7	1
N-Nitrosodiphenylamine	1,300	ug/kg	100	8270C	06/10/12 19:26	JGH	86-30-6	1
Naphthalene	1,600	ug/kg	100	8270C	06/10/12 19:26	JGH	91-20-3	1
Nitrobenzene	1,500	ug/kg	100	8270C	06/10/12 19:26	JGH	98-95-3	1

1-Spiked at 1.67mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.07 (continued)

Sample Tag: SB-A4-MX61_1-2 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
di-n-Octyl phthalate	2,100	ug/kg	300	8270C	06/10/12 19:26	JGH	117-84-0	1
Pentachlorophenol	1,000	ug/kg	100	8270C	06/10/12 19:26	JGH	87-86-5	1
Phenanthrene	1,600	ug/kg	100	8270C	06/10/12 19:26	JGH	85-01-8	1
Phenol	1,600	ug/kg	100	8270C	06/10/12 19:26	JGH	108-95-2	1
Pyrene	1,800	ug/kg	100	8270C	06/10/12 19:26	JGH	129-00-0	1
2,4,5-Trichlorophenol	1,700	ug/kg	100	8270C	06/10/12 19:26	JGH	95-95-4	1
2,4,6-Trichlorophenol	1,600	ug/kg	100	8270C	06/10/12 19:26	JGH	88-06-2	1
Organics - Volatiles								
1,4-Dioxane	22,000	ug/kg	6,000	8260B	06/11/12 19:28	WAT	123-91-1	2
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	2,770	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	76-13-1	3
Acetone	3,050	ug/kg	610	5035/8260B	06/10/12 07:46	WAT	67-64-1	3
Carbon disulfide	2,770	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	75-15-0	3
Methyl Acetate	2,410	ug/kg	610	5035/8260B	06/10/12 07:46	WAT	79-20-9	3
tert-Methyl butyl ether (MTBE)	2,600	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	1634-04-4	3
2-Butanone (MEK)	2,520	ug/kg	610	5035/8260B	06/10/12 07:46	WAT	78-93-3	3
Dichlorodifluoromethane	2,190	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	75-71-8	3
Chloromethane	2,400	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	74-87-3	3
Vinyl chloride	2,810	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	75-01-4	3
Bromomethane	2,450	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	74-83-9	3
Chloroethane	2,340	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	75-00-3	3
Trichlorofluoromethane	2,810	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	75-69-4	3
1,1-Dichloroethene	2,450	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	75-35-4	3
Methylene chloride	2,600	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	75-09-2	3
trans-1,2-Dichloroethene	2,660	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	156-60-5	3
1,1-Dichloroethane	2,700	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	75-34-3	3
cis-1,2-Dichloroethene	2,740	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	156-59-2	3
Chloroform	2,720	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	67-66-3	3
1,1,1-Trichloroethane	2,990	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	71-55-6	3
Cyclohexane	2,180	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	110-82-7	3
4-Methyl-2-pentanone (MIBK)	2,500	ug/kg	610	5035/8260B	06/10/12 07:46	WAT	108-10-1	3
2-Hexanone	2,720	ug/kg	610	5035/8260B	06/10/12 07:46	WAT	591-78-6	3
Carbon tetrachloride	2,920	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	56-23-5	3
Benzene	2,840	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	71-43-2	3
1,2-Dichloroethane	2,740	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	107-06-2	3
Trichloroethene	2,870	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	79-01-6	3
1,2-Dichloropropane	2,870	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	78-87-5	3
Bromodichloromethane	2,910	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	75-27-4	3
Methyl cyclohexane	2,790	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	108-87-2	3
cis-1,3-Dichloropropene	2,920	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	10061-01-5	3
Toluene	2,830	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	108-88-3	3
trans-1,3-Dichloropropene	2,990	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	10061-02-6	3
1,1,2-Trichloroethane	2,760	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	79-00-5	3
Tetrachloroethene	5,390	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	127-18-4	3

1-Spiked at 1.67mg/kg

2-Spiked at 20mg/kg

3-Spiked at 2.5mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.07 (continued)

Sample Tag: SB-A4-MX61_1-2 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Dibromochloromethane	2,870	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	124-48-1	1
1,2-Dibromoethane	2,890	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	106-93-4	1
Chlorobenzene	2,940	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	108-90-7	1
1,1,2,2-Tetrachloroethane	2,700	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	79-34-5	1
Ethylbenzene	2,960	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	100-41-4	1
p,m-Xylene	6,000	ug/kg	100	5035/8260B	06/10/12 07:46	WAT		1
o-Xylene	3,010	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	95-47-6	1
Styrene	3,020	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	100-42-5	1
Isopropylbenzene	2,960	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	98-82-8	1
Bromoform	2,830	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	75-25-2	1
1,3-Dichlorobenzene	3,000	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	541-73-1	1
1,4-Dichlorobenzene	2,850	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	106-46-7	1
1,2-Dichlorobenzene	2,910	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	95-50-1	1
1,2-Dibromo-3-chloropropane	2,690	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	96-12-8	1
1,2,4-Trichlorobenzene	2,750	ug/kg	60	5035/8260B	06/10/12 07:46	WAT	120-82-1	1

1-Spiked at 2.5mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.08

Sample Tag: SB-A4-MX61_10-11

Collected Date/Time: 06/05/2012 11:55

Matrix: Soil

COC Reference: 69068

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 15:27	CCM		
Mercury Digestion	Completed			7471A	06/07/12 14:35	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:00	PER		

Inorganics

Total Solids	59	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	0.33	mg/kg	0.21	6020	06/11/12 14:57	PER	7440-36-0	
Arsenic	5.10	mg/kg	0.10	6020	06/11/12 14:57	PER	7440-38-2	
Barium	195	mg/kg	1.0	6020	06/11/12 14:57	PER	7440-39-3	
Beryllium	0.92	mg/kg	0.21	6020	06/11/12 14:57	PER	7440-41-7	
Boron	10.5	mg/kg	4.3	6020	06/11/12 14:57	PER	7440-42-8	
Cadmium	2.28	mg/kg	0.10	6020	06/11/12 14:57	PER	7440-43-9	
Chromium	15.2	mg/kg	0.21	6020	06/11/12 14:57	PER	7440-47-3	
Cobalt	4.77	mg/kg	0.21	6020	06/11/12 14:57	PER	7440-48-4	
Copper	78.6	mg/kg	0.21	6020	06/11/12 14:57	PER	7440-50-8	
Lead	211	mg/kg	0.21	6020	06/11/12 14:57	PER	7439-92-1	
Manganese	133	mg/kg	0.21	6020	06/11/12 14:57	PER	7439-96-5	
Mercury	0.1139	mg/kg	0.0085	7471A	06/08/12 12:58	JRT	7439-97-6	
Nickel	27.4	mg/kg	0.21	6020	06/11/12 14:57	PER	7440-02-0	
Selenium	2.52	mg/kg	0.21	6020	06/11/12 14:57	PER	7782-49-2	
Silver	0.13	mg/kg	0.10	6020	06/11/12 14:57	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/11/12 14:57	PER	7440-28-0	
Vanadium	56.6	mg/kg	0.21	6020	06/11/12 14:57	PER	7440-62-2	
Zinc	245	mg/kg	1.0	6020	06/11/12 14:57	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	98-86-2	
Anthracene	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	120-12-7	
Atrazine	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	101-55-3	
di-n-Butyl phthalate	500	ug/kg	500	8270C	06/10/12 21:54	JGH	84-74-2	B
Benzaldehyde	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	100-52-7	
Benzo(a)anthracene	1,400	ug/kg	200	8270C	06/10/12 21:54	JGH	56-55-3	
Benzo(a)pyrene	1,200	ug/kg	200	8270C	06/10/12 21:54	JGH	50-32-8	
Benzo(b)fluoranthene	2,700	ug/kg	200	8270C	06/10/12 21:54	JGH	205-99-2	p

B-Compound also found in associated method blank

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.08 (continued)

Sample Tag: SB-A4-MX61_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	600	ug/kg	200	8270C	06/10/12 21:54	JGH	191-24-2	
Benzo(k)fluoranthene	2,800	ug/kg	200	8270C	06/10/12 21:54	JGH	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	105-60-2	
Carbazole	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	108-60-1	
Chrysene	1,500	ug/kg	200	8270C	06/10/12 21:54	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	500	8270C	06/10/12 21:54	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	500	8270C	06/10/12 21:54	JGH	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	500	8270C	06/10/12 21:54	JGH	117-81-7	
Fluoranthene	2,400	ug/kg	200	8270C	06/10/12 21:54	JGH	206-44-0	
Fluorene	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	700	ug/kg	200	8270C	06/10/12 21:54	JGH	193-39-5	
Isophorone	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	500	8270C	06/10/12 21:54	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	500	8270C	06/10/12 21:54	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	87-86-5	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.08 (continued)

Sample Tag: SB-A4-MX61_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenanthrene	300	ug/kg	200	8270C	06/10/12 21:54	JGH	85-01-8	
Phenol	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	108-95-2	
Pyrene	1,900	ug/kg	200	8270C	06/10/12 21:54	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	200	8270C	06/10/12 21:54	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	10,000	8260B	06/09/12 06:13	WAT	123-91-1	
TCL Volatile Organics HighLevel 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	76-13-1	
Acetone	Not detected	ug/kg	1,400	5035/8260B	06/09/12 06:13	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	1,400	5035/8260B	06/09/12 06:13	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	1,400	5035/8260B	06/09/12 06:13	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	156-59-2	
Chloroform	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	1,400	5035/8260B	06/09/12 06:13	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	1,400	5035/8260B	06/09/12 06:13	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	56-23-5	
Benzene	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	10061-01-5	
Toluene	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	100-41-4	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.08 (continued)

Sample Tag: SB-A4-MX61_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
p,m-Xylene	Not detected	ug/kg	300	5035/8260B	06/09/12 06:13	WAT		
o-Xylene	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	95-47-6	
Styrene	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	100	5035/8260B	06/09/12 06:13	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.09
Sample Tag: SB-A4-MX61_16-17
Collected Date/Time: 06/05/2012 11:58
Matrix: Soil
COC Reference: 69068

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 15:27	CCM		
Mercury Digestion	Completed			7471A	06/07/12 14:35	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:00	PER		

Inorganics

Total Solids	79	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.22	6020	06/11/12 14:59	PER	7440-36-0	
Arsenic	2.04	mg/kg	0.11	6020	06/11/12 14:59	PER	7440-38-2	
Barium	35.9	mg/kg	1.1	6020	06/11/12 14:59	PER	7440-39-3	
Beryllium	0.30	mg/kg	0.22	6020	06/11/12 14:59	PER	7440-41-7	
Boron	Not detected	mg/kg	4.4	6020	06/11/12 14:59	PER	7440-42-8	
Cadmium	0.19	mg/kg	0.11	6020	06/11/12 14:59	PER	7440-43-9	
Chromium	8.32	mg/kg	0.22	6020	06/11/12 14:59	PER	7440-47-3	
Cobalt	6.05	mg/kg	0.22	6020	06/11/12 14:59	PER	7440-48-4	
Copper	17.7	mg/kg	0.22	6020	06/11/12 14:59	PER	7440-50-8	
Lead	7.96	mg/kg	0.22	6020	06/11/12 14:59	PER	7439-92-1	
Manganese	361	mg/kg	0.22	6020	06/11/12 14:59	PER	7439-96-5	
Mercury	0.0181	mg/kg	0.0062	7471A	06/08/12 13:00	JRT	7439-97-6	
Nickel	18.3	mg/kg	0.22	6020	06/11/12 14:59	PER	7440-02-0	
Selenium	0.23	mg/kg	0.22	6020	06/11/12 14:59	PER	7782-49-2	
Silver	Not detected	mg/kg	0.11	6020	06/11/12 14:59	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.22	6020	06/11/12 14:59	PER	7440-28-0	
Vanadium	13.3	mg/kg	0.22	6020	06/11/12 14:59	PER	7440-62-2	
Zinc	31.5	mg/kg	1.1	6020	06/11/12 14:59	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/10/12 21:24	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.09 (continued)

Sample Tag: SB-A4-MX61_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/10/12 21:24	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/10/12 21:24	JGH	84-66-2	
Dimethyl phthalate	80	ug/kg	40	8270C	06/10/12 21:24	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/10/12 21:24	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/10/12 21:24	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/10/12 21:24	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.09 (continued)

Sample Tag: SB-A4-MX61_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/10/12 21:24	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/10/12 04:44	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	76-13-1	
Acetone	Not detected	ug/kg	750	5035/8260B	06/10/12 04:44	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	750	5035/8260B	06/10/12 04:44	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	750	5035/8260B	06/10/12 04:44	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	750	5035/8260B	06/10/12 04:44	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	750	5035/8260B	06/10/12 04:44	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/10/12 04:44	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.09 (continued)

Sample Tag: SB-A4-MX61_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/10/12 04:44	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.10
Sample Tag: SB-A4-MX58_1-2
Collected Date/Time: 06/05/2012 12:05
Matrix: Soil
COC Reference: 69068

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 23:33	EMR		
Mercury Digestion	Completed			7471A	06/07/12 14:35	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:00	PER		

Inorganics

Total Solids	94	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/11/12 15:01	PER	7440-36-0	
Arsenic	0.49	mg/kg	0.10	6020	06/11/12 15:01	PER	7440-38-2	
Barium	5.10	mg/kg	1.0	6020	06/11/12 15:01	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/11/12 15:01	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/11/12 15:01	PER	7440-42-8	
Cadmium	0.12	mg/kg	0.10	6020	06/11/12 15:01	PER	7440-43-9	
Chromium	1.88	mg/kg	0.20	6020	06/11/12 15:01	PER	7440-47-3	
Cobalt	7.58	mg/kg	0.20	6020	06/11/12 15:01	PER	7440-48-4	
Copper	5.71	mg/kg	0.20	6020	06/11/12 15:01	PER	7440-50-8	
Lead	4.19	mg/kg	0.20	6020	06/11/12 15:01	PER	7439-92-1	
Manganese	102	mg/kg	0.20	6020	06/11/12 15:01	PER	7439-96-5	
Mercury	0.0057	mg/kg	0.0053	7471A	06/08/12 13:13	JRT	7439-97-6	
Nickel	3.60	mg/kg	0.20	6020	06/11/12 15:01	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/11/12 15:01	PER	7782-49-2	
Silver	0.88	mg/kg	0.10	6020	06/11/12 15:01	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/11/12 15:01	PER	7440-28-0	
Vanadium	2.29	mg/kg	0.20	6020	06/11/12 15:01	PER	7440-62-2	
Zinc	7.28	mg/kg	1.0	6020	06/11/12 15:01	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	98-86-2	
Anthracene	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	120-12-7	
Atrazine	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	100	8270C	06/11/12 22:37	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.10 (continued)

Sample Tag: SB-A4-MX58_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	105-60-2	
Carbazole	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	108-60-1	
Chrysene	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	100	8270C	06/11/12 22:37	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	100	8270C	06/11/12 22:37	JGH	84-66-2	
Dimethyl phthalate	150	ug/kg	70	8270C	06/11/12 22:37	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	100	8270C	06/11/12 22:37	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	206-44-0	
Fluorene	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	193-39-5	
Isophorone	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	100	8270C	06/11/12 22:37	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	100	8270C	06/11/12 22:37	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.10 (continued)

Sample Tag: SB-A4-MX58_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	108-95-2	
Pyrene	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	70	8270C	06/11/12 22:37	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/10/12 05:03	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	76-13-1	
Acetone	Not detected	ug/kg	580	5035/8260B	06/10/12 05:03	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	580	5035/8260B	06/10/12 05:03	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	580	5035/8260B	06/10/12 05:03	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	580	5035/8260B	06/10/12 05:03	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	580	5035/8260B	06/10/12 05:03	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/10/12 05:03	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.10 (continued)

Sample Tag: SB-A4-MX58_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:03	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.11
Sample Tag: SB-A4-MX58_5-6
Collected Date/Time: 06/05/2012 12:35
Matrix: Soil
COC Reference: 69068

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 23:33	EMR		
Mercury Digestion	Completed			7471A	06/07/12 14:35	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:00	PER		

Inorganics

Total Solids	82	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/11/12 15:03	PER	7440-36-0	
Arsenic	0.55	mg/kg	0.10	6020	06/11/12 15:03	PER	7440-38-2	
Barium	13.4	mg/kg	1.0	6020	06/11/12 15:03	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/11/12 15:03	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/11/12 15:03	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/11/12 15:03	PER	7440-43-9	
Chromium	2.51	mg/kg	0.20	6020	06/11/12 15:03	PER	7440-47-3	
Cobalt	1.95	mg/kg	0.20	6020	06/11/12 15:03	PER	7440-48-4	
Copper	3.58	mg/kg	0.20	6020	06/11/12 15:03	PER	7440-50-8	
Lead	3.39	mg/kg	0.20	6020	06/11/12 15:03	PER	7439-92-1	
Manganese	109	mg/kg	0.20	6020	06/11/12 15:03	PER	7439-96-5	
Mercury	0.0144	mg/kg	0.0059	7471A	06/08/12 13:16	JRT	7439-97-6	
Nickel	4.82	mg/kg	0.20	6020	06/11/12 15:03	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/11/12 15:03	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/11/12 15:03	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/11/12 15:03	PER	7440-28-0	
Vanadium	4.06	mg/kg	0.20	6020	06/11/12 15:03	PER	7440-62-2	
Zinc	7.99	mg/kg	1.0	6020	06/11/12 15:03	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/11/12 18:41	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.11 (continued)

Sample Tag: SB-A4-MX58_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/11/12 18:41	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/11/12 18:41	JGH	84-66-2	
Dimethyl phthalate	280	ug/kg	40	8270C	06/11/12 18:41	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/11/12 18:41	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/11/12 18:41	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/11/12 18:41	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.11 (continued)

Sample Tag: SB-A4-MX58_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 18:41	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/11/12 02:13	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	76-13-1	
Acetone	Not detected	ug/kg	700	5035/8260B	06/11/12 02:13	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	700	5035/8260B	06/11/12 02:13	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	700	5035/8260B	06/11/12 02:13	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	700	5035/8260B	06/11/12 02:13	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	700	5035/8260B	06/11/12 02:13	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/11/12 02:13	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.11 (continued)

Sample Tag: SB-A4-MX58_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:13	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.12
Sample Tag: SB-A4-MX58_8-12
Collected Date/Time: 06/05/2012 12:45
Matrix: Groundwater
COC Reference: 69068

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.1	IR
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	06/08/12 18:58	EMR		
Mercury Digestion	Completed			7471A	06/08/12 12:00	JRH		
Metal Digestion	Completed			3015A	06/07/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:17	SLS	7440-36-0	
Arsenic, Dissolved	0.008	mg/L	0.002	6020	06/07/12 00:17	SLS	7440-38-2	
Barium, Dissolved	0.053	mg/L	0.010	6020	06/07/12 00:17	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 00:17	SLS	7440-41-7	
Boron, Dissolved	0.06	mg/L	0.04	6020	06/07/12 00:17	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 00:17	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:17	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:17	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:17	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:17	SLS	7439-92-1	
Manganese, Dissolved	0.615	mg/L	0.010	6020	06/07/12 00:17	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	06/08/12 15:11	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:17	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:17	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	06/07/12 00:17	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:17	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:17	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:17	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/13/12 03:29	JGH	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/13/12 03:29	JGH	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	205-99-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.12 (continued)

Sample Tag: SB-A4-MX58_8-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	06/12/12 17:49	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	06/12/12 17:49	JGH	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	06/12/12 17:49	JGH	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	06/12/12 17:49	JGH	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	85-01-8	
Phenol	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	129-00-0	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.12 (continued)

Sample Tag: SB-A4-MX58_8-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	06/12/12 17:49	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	06/28/12 14:28	JGH	123-91-1	1F
1,4-Dioxane	Not detected	ug/L	100	8260B	06/11/12 18:17	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	06/11/12 18:17	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	06/11/12 18:17	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	06/11/12 18:17	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	06/11/12 18:17	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	06/11/12 18:17	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/11/12 18:17	WAT		

1-Analysis performed outside of holding time per client request. F-Analysis run outside of holding time



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.12 (continued)

Sample Tag: SB-A4-MX58_8-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	06/11/12 18:17	WAT	96-12-8	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.13

Sample Tag: SB-A4-MX58_16-17

Collected Date/Time: 06/05/2012 13:40

Matrix: Soil

COC Reference: 69068

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 23:33	EMR		
Mercury Digestion	Completed			7471A	06/07/12 14:35	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:00	PER		

Inorganics

Total Solids	78	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/11/12 15:05	PER	7440-36-0	
Arsenic	1.90	mg/kg	0.10	6020	06/11/12 15:05	PER	7440-38-2	
Barium	51.8	mg/kg	1.0	6020	06/11/12 15:05	PER	7440-39-3	
Beryllium	0.33	mg/kg	0.21	6020	06/11/12 15:05	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/11/12 15:05	PER	7440-42-8	
Cadmium	0.17	mg/kg	0.10	6020	06/11/12 15:05	PER	7440-43-9	
Chromium	7.58	mg/kg	0.21	6020	06/11/12 15:05	PER	7440-47-3	
Cobalt	5.28	mg/kg	0.21	6020	06/11/12 15:05	PER	7440-48-4	
Copper	17.5	mg/kg	0.21	6020	06/11/12 15:05	PER	7440-50-8	
Lead	8.15	mg/kg	0.21	6020	06/11/12 15:05	PER	7439-92-1	
Manganese	357	mg/kg	0.21	6020	06/11/12 15:05	PER	7439-96-5	
Mercury	0.0191	mg/kg	0.0062	7471A	06/08/12 13:18	JRT	7439-97-6	
Nickel	16.0	mg/kg	0.21	6020	06/11/12 15:05	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/11/12 15:05	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/11/12 15:05	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/11/12 15:05	PER	7440-28-0	
Vanadium	12.7	mg/kg	0.21	6020	06/11/12 15:05	PER	7440-62-2	
Zinc	29.3	mg/kg	1.0	6020	06/11/12 15:05	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	90	8270C	06/11/12 17:11	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.13 (continued)

Sample Tag: SB-A4-MX58_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	90	8270C	06/11/12 17:11	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	90	8270C	06/11/12 17:11	JGH	84-66-2	
Dimethyl phthalate	140	ug/kg	40	8270C	06/11/12 17:11	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	90	8270C	06/11/12 17:11	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	90	8270C	06/11/12 17:11	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	90	8270C	06/11/12 17:11	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.13 (continued)

Sample Tag: SB-A4-MX58_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 17:11	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	10,000	8260B	06/10/12 05:21	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	76-13-1	
Acetone	Not detected	ug/kg	980	5035/8260B	06/10/12 05:21	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	980	5035/8260B	06/10/12 05:21	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	980	5035/8260B	06/10/12 05:21	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	156-59-2	
Chloroform	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	980	5035/8260B	06/10/12 05:21	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	980	5035/8260B	06/10/12 05:21	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	56-23-5	
Benzene	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	10061-01-5	
Toluene	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	200	5035/8260B	06/10/12 05:21	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.13 (continued)

Sample Tag: SB-A4-MX58_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	95-47-6	
Styrene	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	100	5035/8260B	06/10/12 05:21	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.14
Sample Tag: SB-A4-DUP77
Collected Date/Time: 06/05/2012 00:01
Matrix: Soil
COC Reference: 69068

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 23:33	EMR		
Mercury Digestion	Completed			7471A	06/07/12 14:35	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:00	PER		

Inorganics

Total Solids	84	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/11/12 15:07	PER	7440-36-0	
Arsenic	0.64	mg/kg	0.10	6020	06/11/12 15:07	PER	7440-38-2	
Barium	11.5	mg/kg	1.0	6020	06/11/12 15:07	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/11/12 15:07	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/11/12 15:07	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/11/12 15:07	PER	7440-43-9	
Chromium	2.27	mg/kg	0.20	6020	06/11/12 15:07	PER	7440-47-3	
Cobalt	1.73	mg/kg	0.20	6020	06/11/12 15:07	PER	7440-48-4	
Copper	3.52	mg/kg	0.20	6020	06/11/12 15:07	PER	7440-50-8	
Lead	2.69	mg/kg	0.20	6020	06/11/12 15:07	PER	7439-92-1	
Manganese	123	mg/kg	0.20	6020	06/11/12 15:07	PER	7439-96-5	
Mercury	0.0114	mg/kg	0.0058	7471A	06/08/12 13:20	JRT	7439-97-6	
Nickel	4.21	mg/kg	0.20	6020	06/11/12 15:07	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/11/12 15:07	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/11/12 15:07	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/11/12 15:07	PER	7440-28-0	
Vanadium	3.73	mg/kg	0.20	6020	06/11/12 15:07	PER	7440-62-2	
Zinc	7.02	mg/kg	1.0	6020	06/11/12 15:07	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/11/12 19:11	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.14 (continued)

Sample Tag: SB-A4-DUP77

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/11/12 19:11	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/11/12 19:11	JGH	84-66-2	
Dimethyl phthalate	170	ug/kg	40	8270C	06/11/12 19:11	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/11/12 19:11	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/11/12 19:11	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/11/12 19:11	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.14 (continued)

Sample Tag: SB-A4-DUP77

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 19:11	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	8,000	8260B	06/10/12 05:39	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	76-13-1	
Acetone	Not detected	ug/kg	770	5035/8260B	06/10/12 05:39	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	770	5035/8260B	06/10/12 05:39	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	770	5035/8260B	06/10/12 05:39	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	156-59-2	
Chloroform	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	770	5035/8260B	06/10/12 05:39	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	770	5035/8260B	06/10/12 05:39	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	56-23-5	
Benzene	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	10061-01-5	
Toluene	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	200	5035/8260B	06/10/12 05:39	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.14 (continued)

Sample Tag: SB-A4-DUP77

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	95-47-6	
Styrene	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	98-82-8	
Bromoform	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/10/12 05:39	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.15
Sample Tag: Trip Blank
Collected Date/Time: 06/05/2012 00:01
Matrix: Groundwater
COC Reference: 69067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	100	8260B	06/10/12 04:06	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	06/10/12 04:06	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	06/10/12 04:06	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	06/10/12 04:06	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	06/10/12 04:06	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	06/10/12 04:06	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/10/12 04:06	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.15 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	06/10/12 04:06	WAT	96-12-8	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.16
Sample Tag: SB-A5.1-MI125_1-2
Collected Date/Time: 06/05/2012 14:51
Matrix: Soil
COC Reference: 69067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 23:33	EMR		
Mercury Digestion	Completed			7471A	06/07/12 14:35	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/11/12 15:09	PER	7440-36-0	
Arsenic	1.23	mg/kg	0.10	6020	06/11/12 15:09	PER	7440-38-2	
Barium	25.6	mg/kg	1.0	6020	06/11/12 15:09	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/11/12 15:09	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/11/12 15:09	PER	7440-42-8	
Cadmium	0.14	mg/kg	0.10	6020	06/11/12 15:09	PER	7440-43-9	
Chromium	35.3	mg/kg	0.20	6020	06/11/12 15:09	PER	7440-47-3	
Cobalt	8.87	mg/kg	0.20	6020	06/11/12 15:09	PER	7440-48-4	
Copper	9.71	mg/kg	0.20	6020	06/11/12 15:09	PER	7440-50-8	
Lead	137	mg/kg	0.20	6020	06/11/12 15:09	PER	7439-92-1	
Manganese	181	mg/kg	0.20	6020	06/11/12 15:09	PER	7439-96-5	
Mercury	0.0327	mg/kg	0.0055	7471A	06/08/12 13:22	JRT	7439-97-6	
Nickel	7.44	mg/kg	0.20	6020	06/11/12 15:09	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/11/12 15:09	PER	7782-49-2	
Silver	0.65	mg/kg	0.10	6020	06/11/12 15:09	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/11/12 15:09	PER	7440-28-0	
Vanadium	5.67	mg/kg	0.20	6020	06/11/12 15:09	PER	7440-62-2	
Zinc	18.6	mg/kg	1.0	6020	06/11/12 15:09	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/11/12 21:38	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	100-52-7	
Benzo(a)anthracene	100	ug/kg	40	8270C	06/11/12 21:38	JGH	56-55-3	
Benzo(a)pyrene	100	ug/kg	40	8270C	06/11/12 21:38	JGH	50-32-8	
Benzo(b)fluoranthene	210	ug/kg	40	8270C	06/11/12 21:38	JGH	205-99-2	p

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.16 (continued)

Sample Tag: SB-A5.1-MI125_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	90	ug/kg	40	8270C	06/11/12 21:38	JGH	191-24-2	
Benzo(k)fluoranthene	220	ug/kg	40	8270C	06/11/12 21:38	JGH	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	108-60-1	
Chrysene	120	ug/kg	40	8270C	06/11/12 21:38	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/11/12 21:38	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/11/12 21:38	JGH	84-66-2	
Dimethyl phthalate	450	ug/kg	40	8270C	06/11/12 21:38	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/11/12 21:38	JGH	117-81-7	
Fluoranthene	210	ug/kg	40	8270C	06/11/12 21:38	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	80	ug/kg	40	8270C	06/11/12 21:38	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/11/12 21:38	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/11/12 21:38	JGH	117-84-0	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.16 (continued)

Sample Tag: SB-A5.1-MI125_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	87-86-5	
Phenanthrene	100	ug/kg	40	8270C	06/11/12 21:38	JGH	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	108-95-2	
Pyrene	180	ug/kg	40	8270C	06/11/12 21:38	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 21:38	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/10/12 05:57	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	76-13-1	
Acetone	Not detected	ug/kg	610	5035/8260B	06/10/12 05:57	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	610	5035/8260B	06/10/12 05:57	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	610	5035/8260B	06/10/12 05:57	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	610	5035/8260B	06/10/12 05:57	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	610	5035/8260B	06/10/12 05:57	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	79-34-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.16 (continued)

Sample Tag: SB-A5.1-MI125_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/10/12 05:57	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/10/12 05:57	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.17

Sample Tag: SB-A5.1-MG123_1-2

Collected Date/Time: 06/05/2012 15:04

Matrix: Soil

COC Reference: 69067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 23:33	EMR		
BNA Extraction (Replicate 01)	Completed			3550B	06/12/12 22:08	EMR		
Mercury Digestion	Completed			7471A	06/07/12 14:35	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:00	PER		

Inorganics

Total Solids	96	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/11/12 15:11	PER	7440-36-0	
Arsenic	1.11	mg/kg	0.10	6020	06/11/12 15:11	PER	7440-38-2	
Barium	13.8	mg/kg	1.0	6020	06/11/12 15:11	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/11/12 15:11	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/11/12 15:11	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/11/12 15:11	PER	7440-43-9	
Chromium	6.88	mg/kg	0.20	6020	06/11/12 15:11	PER	7440-47-3	
Cobalt	2.15	mg/kg	0.20	6020	06/11/12 15:11	PER	7440-48-4	
Copper	3.79	mg/kg	0.20	6020	06/11/12 15:11	PER	7440-50-8	
Lead	3.22	mg/kg	0.20	6020	06/11/12 15:11	PER	7439-92-1	
Manganese	152	mg/kg	0.20	6020	06/11/12 15:11	PER	7439-96-5	
Mercury	0.0060	mg/kg	0.0051	7471A	06/08/12 13:25	JRT	7439-97-6	
Nickel	10.6	mg/kg	0.20	6020	06/11/12 15:11	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/11/12 15:11	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/11/12 15:11	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/11/12 15:11	PER	7440-28-0	
Vanadium	4.14	mg/kg	0.20	6020	06/11/12 15:11	PER	7440-62-2	
Zinc	8.88	mg/kg	1.0	6020	06/11/12 15:11	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	98-86-2	
Anthracene	50	ug/kg	30	8270C	06/12/12 11:09	JGH	120-12-7	
Atrazine	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/12/12 11:09	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	100-52-7	
Benzo(a)anthracene	210	ug/kg	30	8270C	06/12/12 11:09	JGH	56-55-3	
Benzo(a)pyrene	220	ug/kg	30	8270C	06/12/12 11:09	JGH	50-32-8	I

I-Matrix interference with internal standard



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.17 (continued)

Sample Tag: SB-A5.1-MG123_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(b)fluoranthene	430	ug/kg	30	8270C	06/12/12 11:09	JGH	205-99-2	pl
Benzo(ghi)perylene	130	ug/kg	30	8270C	06/12/12 11:09	JGH	191-24-2	I
Benzo(k)fluoranthene	450	ug/kg	30	8270C	06/12/12 11:09	JGH	207-08-9	pl
Butyl benzyl phthalate	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	105-60-2	
Carbazole	40	ug/kg	30	8270C	06/12/12 11:09	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	108-60-1	
Chrysene	220	ug/kg	30	8270C	06/12/12 11:09	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	534-52-1	
Dibenzo(ah)anthracene	80	ug/kg	70	8270C	06/12/12 11:09	JGH	53-70-3	I
Dibenzofuran	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/12/12 11:09	JGH	84-66-2	
Dimethyl phthalate	140	ug/kg	30	8270C	06/12/12 11:09	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/12/12 11:09	JGH	117-81-7	
Fluoranthene	400	ug/kg	30	8270C	06/12/12 11:09	JGH	206-44-0	
Fluorene	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	120	ug/kg	30	8270C	06/12/12 11:09	JGH	193-39-5	I
Isophorone	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/12/12 11:09	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	98-95-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak. I-Matrix interference with internal standard

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.17 (continued)

Sample Tag: SB-A5.1-MG123_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/12/12 11:09	JGH	117-84-0	I
Pentachlorophenol	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	87-86-5	
Phenanthrene	190	ug/kg	30	8270C	06/12/12 11:09	JGH	85-01-8	
Phenol	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	108-95-2	
Pyrene	350	ug/kg	30	8270C	06/12/12 11:09	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	30	8270C	06/12/12 11:09	JGH	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	98-86-2	
Anthracene	50	ug/kg	30	8270C	06/13/12 10:22	JGH	120-12-7	S
Atrazine	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	1912-24-9	S
1,1'-Biphenyl	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	101-55-3	S
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/13/12 10:22	JGH	84-74-2	S
Benzaldehyde	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	100-52-7	
Benzo(a)anthracene	220	ug/kg	30	8270C	06/13/12 10:22	JGH	56-55-3	
Benzo(a)pyrene	220	ug/kg	30	8270C	06/13/12 10:22	JGH	50-32-8	
Benzo(b)fluoranthene	410	ug/kg	30	8270C	06/13/12 10:22	JGH	205-99-2	p
Benzo(ghi)perylene	130	ug/kg	30	8270C	06/13/12 10:22	JGH	191-24-2	
Benzo(k)fluoranthene	420	ug/kg	30	8270C	06/13/12 10:22	JGH	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	105-60-2	
Carbazole	40	ug/kg	30	8270C	06/13/12 10:22	JGH	86-74-8	S
bis(2-Chloroethoxy)methane	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	108-60-1	
Chrysene	230	ug/kg	30	8270C	06/13/12 10:22	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	534-52-1	S
Dibenzo(ah)anthracene	80	ug/kg	70	8270C	06/13/12 10:22	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/13/12 10:22	JGH	84-66-2	
Dimethyl phthalate	240	ug/kg	30	8270C	06/13/12 10:22	JGH	131-11-3	B

I-Matrix interference with internal standard

S-Surrogate recovery outside of control limits

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.17 (continued)

Sample Tag: SB-A5.1-MG123_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/13/12 10:22	JGH	117-81-7	
Fluoranthene	400	ug/kg	30	8270C	06/13/12 10:22	JGH	206-44-0	S
Fluorene	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	118-74-1	S
Hexachlorobutadiene	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	130	ug/kg	30	8270C	06/13/12 10:22	JGH	193-39-5	
Isophorone	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/13/12 10:22	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	86-30-6	S
Naphthalene	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/13/12 10:22	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	87-86-5	S
Phenanthrene	190	ug/kg	30	8270C	06/13/12 10:22	JGH	85-01-8	S
Phenol	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	108-95-2	
Pyrene	360	ug/kg	30	8270C	06/13/12 10:22	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	30	8270C	06/13/12 10:22	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/11/12 02:31	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	76-13-1	
Acetone	Not detected	ug/kg	670	5035/8260B	06/11/12 02:31	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	670	5035/8260B	06/11/12 02:31	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	670	5035/8260B	06/11/12 02:31	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	156-60-5	

S-Surrogate recovery outside of control limits



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.17 (continued)

Sample Tag: SB-A5.1-MG123_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	670	5035/8260B	06/11/12 02:31	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	670	5035/8260B	06/11/12 02:31	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/11/12 02:31	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 02:31	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.18
Sample Tag: SB-A5.1-MC123_1-2
Collected Date/Time: 06/05/2012 15:13
Matrix: Soil
COC Reference: 69067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 23:33	EMR		
Mercury Digestion	Completed			7471A	06/07/12 14:35	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:00	PER		

Inorganics

Total Solids	77	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.22	6020	06/11/12 15:12	PER	7440-36-0	
Arsenic	2.40	mg/kg	0.11	6020	06/11/12 15:12	PER	7440-38-2	
Barium	64.9	mg/kg	1.1	6020	06/11/12 15:12	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.22	6020	06/11/12 15:12	PER	7440-41-7	
Boron	Not detected	mg/kg	4.4	6020	06/11/12 15:12	PER	7440-42-8	
Cadmium	0.40	mg/kg	0.11	6020	06/11/12 15:12	PER	7440-43-9	
Chromium	9.63	mg/kg	0.22	6020	06/11/12 15:12	PER	7440-47-3	
Cobalt	2.35	mg/kg	0.22	6020	06/11/12 15:12	PER	7440-48-4	
Copper	19.1	mg/kg	0.22	6020	06/11/12 15:12	PER	7440-50-8	
Lead	43.0	mg/kg	0.22	6020	06/11/12 15:12	PER	7439-92-1	
Manganese	215	mg/kg	0.22	6020	06/11/12 15:12	PER	7439-96-5	
Mercury	0.0301	mg/kg	0.0064	7471A	06/08/12 13:27	JRT	7439-97-6	
Nickel	10.2	mg/kg	0.22	6020	06/11/12 15:12	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.22	6020	06/11/12 15:12	PER	7782-49-2	
Silver	Not detected	mg/kg	0.11	6020	06/11/12 15:12	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.22	6020	06/11/12 15:12	PER	7440-28-0	
Vanadium	5.91	mg/kg	0.22	6020	06/11/12 15:12	PER	7440-62-2	
Zinc	61.0	mg/kg	1.1	6020	06/11/12 15:12	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	98-86-2	
Anthracene	50	ug/kg	40	8270C	06/12/12 11:38	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	90	8270C	06/12/12 11:38	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	100-52-7	
Benzo(a)anthracene	240	ug/kg	40	8270C	06/12/12 11:38	JGH	56-55-3	
Benzo(a)pyrene	270	ug/kg	40	8270C	06/12/12 11:38	JGH	50-32-8	I
Benzo(b)fluoranthene	560	ug/kg	40	8270C	06/12/12 11:38	JGH	205-99-2	pl

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.18 (continued)

Sample Tag: SB-A5.1-MC123_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	160	ug/kg	40	8270C	06/12/12 11:38	JGH	191-24-2	I
Benzo(k)fluoranthene	580	ug/kg	40	8270C	06/12/12 11:38	JGH	207-08-9	pl
Butyl benzyl phthalate	50	ug/kg	40	8270C	06/12/12 11:38	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	108-60-1	
Chrysene	260	ug/kg	40	8270C	06/12/12 11:38	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	534-52-1	
Dibenzo(ah)anthracene	90	ug/kg	90	8270C	06/12/12 11:38	JGH	53-70-3	I
Dibenzofuran	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	90	8270C	06/12/12 11:38	JGH	84-66-2	
Dimethyl phthalate	200	ug/kg	40	8270C	06/12/12 11:38	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	90	8270C	06/12/12 11:38	JGH	117-81-7	
Fluoranthene	470	ug/kg	40	8270C	06/12/12 11:38	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	140	ug/kg	40	8270C	06/12/12 11:38	JGH	193-39-5	I
Isophorone	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	90	8270C	06/12/12 11:38	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	98-95-3	

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.18 (continued)

Sample Tag: SB-A5.1-MC123_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
di-n-Octyl phthalate	Not detected	ug/kg	90	8270C	06/12/12 11:38	JGH	117-84-0	I
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	87-86-5	
Phenanthrene	230	ug/kg	40	8270C	06/12/12 11:38	JGH	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	108-95-2	
Pyrene	510	ug/kg	40	8270C	06/12/12 11:38	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/12/12 11:38	JGH	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	40	ug/kg	40	8270C	06/13/12 11:21	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	208-96-8	
Acetophenone	50	ug/kg	40	8270C	06/13/12 11:21	JGH	98-86-2	
Anthracene	90	ug/kg	40	8270C	06/13/12 11:21	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	101-55-3	
di-n-Butyl phthalate	130	ug/kg	90	8270C	06/13/12 11:21	JGH	84-74-2	B
Benzaldehyde	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	100-52-7	
Benzo(a)anthracene	500	ug/kg	40	8270C	06/13/12 11:21	JGH	56-55-3	
Benzo(a)pyrene	540	ug/kg	40	8270C	06/13/12 11:21	JGH	50-32-8	I
Benzo(b)fluoranthene	1,150	ug/kg	40	8270C	06/13/12 11:21	JGH	205-99-2	Ip
Benzo(ghi)perylene	330	ug/kg	40	8270C	06/13/12 11:21	JGH	191-24-2	I
Benzo(k)fluoranthene	1,190	ug/kg	40	8270C	06/13/12 11:21	JGH	207-08-9	Ip
Butyl benzyl phthalate	100	ug/kg	40	8270C	06/13/12 11:21	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	105-60-2	
Carbazole	70	ug/kg	40	8270C	06/13/12 11:21	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	108-60-1	
Chrysene	530	ug/kg	40	8270C	06/13/12 11:21	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	534-52-1	
Dibenzo(ah)anthracene	190	ug/kg	90	8270C	06/13/12 11:21	JGH	53-70-3	I
Dibenzofuran	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	90	8270C	06/13/12 11:21	JGH	84-66-2	
Dimethyl phthalate	390	ug/kg	40	8270C	06/13/12 11:21	JGH	131-11-3	B

I-Matrix interference with internal standard

B-Compound also found in associated method blank

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.18 (continued)

Sample Tag: SB-A5.1-MC123_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
bis(2-Ethylhexyl)phthalate	100	ug/kg	90	8270C	06/13/12 11:21	JGH	117-81-7	
Fluoranthene	930	ug/kg	40	8270C	06/13/12 11:21	JGH	206-44-0	
Fluorene	50	ug/kg	40	8270C	06/13/12 11:21	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	270	ug/kg	40	8270C	06/13/12 11:21	JGH	193-39-5	I
Isophorone	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	90	8270C	06/13/12 11:21	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	90	8270C	06/13/12 11:21	JGH	117-84-0	I
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	87-86-5	
Phenanthrene	470	ug/kg	40	8270C	06/13/12 11:21	JGH	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	108-95-2	
Pyrene	1,060	ug/kg	40	8270C	06/13/12 11:21	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/13/12 11:21	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	9,000	8260B	06/11/12 02:50	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	76-13-1	
Acetone	Not detected	ug/kg	890	5035/8260B	06/11/12 02:50	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	890	5035/8260B	06/11/12 02:50	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	890	5035/8260B	06/11/12 02:50	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	156-60-5	

I-Matrix interference with internal standard



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.18 (continued)

Sample Tag: SB-A5.1-MC123_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
1,1-Dichloroethane	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	156-59-2	
Chloroform	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	890	5035/8260B	06/11/12 02:50	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	890	5035/8260B	06/11/12 02:50	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	56-23-5	
Benzene	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	10061-01-5	
Toluene	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	200	5035/8260B	06/11/12 02:50	WAT		
o-Xylene	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	95-47-6	
Styrene	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	540	5035/8260B	06/11/12 02:50	WAT	98-82-8	X
Bromoform	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	90	5035/8260B	06/11/12 02:50	WAT	120-82-1	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.19
Sample Tag: SB-A5.1-MI125_8-12
Collected Date/Time: 06/05/2012 15:50
Matrix: Groundwater
COC Reference: 69067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.1	IR
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	06/08/12 18:58	EMR		
Mercury Digestion	Completed			7471A	06/08/12 12:00	JRH		
Metal Digestion	Completed			3015A	06/07/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:22	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:22	SLS	7440-38-2	
Barium, Dissolved	0.031	mg/L	0.010	6020	06/07/12 00:22	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 00:22	SLS	7440-41-7	
Boron, Dissolved	0.21	mg/L	0.04	6020	06/07/12 00:22	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 00:22	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:22	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:22	SLS	7440-48-4	
Copper, Dissolved	0.002	mg/L	0.002	6020	06/07/12 00:22	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:22	SLS	7439-92-1	
Manganese, Dissolved	0.029	mg/L	0.010	6020	06/07/12 00:22	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	06/08/12 15:13	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:22	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:22	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	06/07/12 00:22	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:22	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:22	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:22	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/13/12 03:58	JGH	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/13/12 03:58	JGH	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	205-99-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.19 (continued)

Sample Tag: SB-A5.1-MI125_8-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	06/12/12 17:14	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	06/12/12 17:14	JGH	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	06/12/12 17:14	JGH	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	06/12/12 17:14	JGH	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	85-01-8	
Phenol	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	129-00-0	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.19 (continued)

Sample Tag: SB-A5.1-MI125_8-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	06/12/12 17:14	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	06/28/12 14:46	JGH	123-91-1	1F
1,4-Dioxane	Not detected	ug/L	100	8260B	06/11/12 16:05	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	06/11/12 16:05	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	06/11/12 16:05	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	06/11/12 16:05	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	67-66-3	
1,1,1-Trichloroethane	1	ug/L	1	8260B	06/11/12 16:05	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	06/11/12 16:05	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	06/11/12 16:05	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/11/12 16:05	WAT		

1-Analysis performed outside of holding time per client request. F-Analysis run outside of holding time



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.19 (continued)

Sample Tag: SB-A5.1-MI125_8-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	06/11/12 16:05	WAT	96-12-8	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.20

Sample Tag: SB-A5.1-MI125_11-12

Collected Date/Time: 06/05/2012 15:55

Matrix: Soil

COC Reference: 69067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 23:33	EMR		
Mercury Digestion	Completed			7471A	06/07/12 14:35	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:00	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/11/12 15:14	PER	7440-36-0	
Arsenic	1.07	mg/kg	0.10	6020	06/11/12 15:14	PER	7440-38-2	
Barium	37.2	mg/kg	1.0	6020	06/11/12 15:14	PER	7440-39-3	
Beryllium	0.26	mg/kg	0.20	6020	06/11/12 15:14	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/11/12 15:14	PER	7440-42-8	
Cadmium	0.12	mg/kg	0.10	6020	06/11/12 15:14	PER	7440-43-9	
Chromium	4.66	mg/kg	0.20	6020	06/11/12 15:14	PER	7440-47-3	
Cobalt	3.64	mg/kg	0.20	6020	06/11/12 15:14	PER	7440-48-4	
Copper	10.0	mg/kg	0.20	6020	06/11/12 15:14	PER	7440-50-8	
Lead	7.67	mg/kg	0.20	6020	06/11/12 15:14	PER	7439-92-1	
Manganese	144	mg/kg	0.20	6020	06/11/12 15:14	PER	7439-96-5	
Mercury	0.0211	mg/kg	0.0061	7471A	06/08/12 13:29	JRT	7439-97-6	
Nickel	9.23	mg/kg	0.20	6020	06/11/12 15:14	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/11/12 15:14	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/11/12 15:14	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/11/12 15:14	PER	7440-28-0	
Vanadium	7.50	mg/kg	0.20	6020	06/11/12 15:14	PER	7440-62-2	
Zinc	18.6	mg/kg	1.0	6020	06/11/12 15:14	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/11/12 20:39	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	100-52-7	
Benzo(a)anthracene	50	ug/kg	40	8270C	06/11/12 20:39	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.20 (continued)

Sample Tag: SB-A5.1-MI125_11-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	108-60-1	
Chrysene	50	ug/kg	40	8270C	06/11/12 20:39	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/11/12 20:39	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/11/12 20:39	JGH	84-66-2	
Dimethyl phthalate	120	ug/kg	40	8270C	06/11/12 20:39	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/11/12 20:39	JGH	117-81-7	
Fluoranthene	150	ug/kg	40	8270C	06/11/12 20:39	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/11/12 20:39	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/11/12 20:39	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.20 (continued)

Sample Tag: SB-A5.1-MI125_11-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	108-95-2	
Pyrene	110	ug/kg	40	8270C	06/11/12 20:39	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 20:39	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	8,000	8260B	06/11/12 03:09	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	76-13-1	
Acetone	Not detected	ug/kg	840	5035/8260B	06/11/12 03:09	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	840	5035/8260B	06/11/12 03:09	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	840	5035/8260B	06/11/12 03:09	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	156-59-2	
Chloroform	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	840	5035/8260B	06/11/12 03:09	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	840	5035/8260B	06/11/12 03:09	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	56-23-5	
Benzene	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	10061-01-5	
Toluene	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	200	5035/8260B	06/11/12 03:09	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.20 (continued)

Sample Tag: SB-A5.1-MI125_11-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	95-47-6	
Styrene	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	98-82-8	
Bromoform	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/11/12 03:09	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.21

Sample Tag: SB-A5.1-MI125_16-17

Collected Date/Time: 06/05/2012 15:58

Matrix: Soil

COC Reference: 69067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 23:33	EMR		
Mercury Digestion	Completed			7471A	06/07/12 14:35	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:30	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/11/12 15:28	PER	7440-36-0	
Arsenic	1.30	mg/kg	0.10	6020	06/11/12 15:28	PER	7440-38-2	
Barium	43.9	mg/kg	1.0	6020	06/11/12 15:28	PER	7440-39-3	
Beryllium	0.21	mg/kg	0.21	6020	06/11/12 15:28	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/11/12 15:28	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/11/12 15:28	PER	7440-43-9	
Chromium	5.15	mg/kg	0.21	6020	06/11/12 15:28	PER	7440-47-3	
Cobalt	3.55	mg/kg	0.21	6020	06/11/12 15:28	PER	7440-48-4	
Copper	10.2	mg/kg	0.21	6020	06/11/12 15:28	PER	7440-50-8	
Lead	4.80	mg/kg	0.21	6020	06/11/12 15:28	PER	7439-92-1	
Manganese	246	mg/kg	0.21	6020	06/11/12 15:28	PER	7439-96-5	
Mercury	0.0126	mg/kg	0.0056	7471A	06/08/12 13:34	JRT	7439-97-6	
Nickel	11.7	mg/kg	0.21	6020	06/11/12 15:28	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/11/12 15:28	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/11/12 15:28	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/11/12 15:28	PER	7440-28-0	
Vanadium	7.35	mg/kg	0.21	6020	06/11/12 15:28	PER	7440-62-2	
Zinc	15.2	mg/kg	1.0	6020	06/11/12 15:28	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/11/12 15:43	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.21 (continued)

Sample Tag: SB-A5.1-MI125_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/11/12 15:43	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/11/12 15:43	JGH	84-66-2	
Dimethyl phthalate	190	ug/kg	40	8270C	06/11/12 15:43	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/11/12 15:43	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/11/12 15:43	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/11/12 15:43	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.21 (continued)

Sample Tag: SB-A5.1-MI125_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 15:43	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/11/12 17:57	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	76-13-1	
Acetone	Not detected	ug/kg	630	5035/8260B	06/11/12 17:57	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	630	5035/8260B	06/11/12 17:57	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	630	5035/8260B	06/11/12 17:57	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	630	5035/8260B	06/11/12 17:57	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	630	5035/8260B	06/11/12 17:57	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/11/12 17:57	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.21 (continued)

Sample Tag: SB-A5.1-MI125_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 17:57	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.22

Sample Tag: SB-A5.1-MI125_16-17 MS

Collected Date/Time: 06/05/2012 15:58

Matrix: Soil

COC Reference: 69067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 23:33	EMR		
Mercury Digestion	Completed			7471A	06/07/12 14:35	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:30	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	22.8	mg/kg	0.21	6020	06/11/12 15:42	PER	7440-36-0	
Arsenic	24.0	mg/kg	0.10	6020	06/11/12 15:42	PER	7440-38-2	
Barium	61.5	mg/kg	1.0	6020	06/11/12 15:42	PER	7440-39-3	
Beryllium	21.1	mg/kg	0.21	6020	06/11/12 15:42	PER	7440-41-7	
Boron	23.4	mg/kg	4.2	6020	06/11/12 15:42	PER	7440-42-8	
Cadmium	21.9	mg/kg	0.10	6020	06/11/12 15:42	PER	7440-43-9	
Chromium	29.2	mg/kg	0.21	6020	06/11/12 15:42	PER	7440-47-3	
Cobalt	26.4	mg/kg	0.21	6020	06/11/12 15:42	PER	7440-48-4	
Copper	30.4	mg/kg	0.21	6020	06/11/12 15:42	PER	7440-50-8	
Lead	25.3	mg/kg	0.21	6020	06/11/12 15:42	PER	7439-92-1	
Manganese	267	mg/kg	0.21	6020	06/11/12 15:42	PER	7439-96-5	
Mercury	0.1333	mg/kg	0.0056	7471A	06/08/12 13:36	JRT	7439-97-6	
Nickel	33.7	mg/kg	0.21	6020	06/11/12 15:42	PER	7440-02-0	
Selenium	22.9	mg/kg	0.21	6020	06/11/12 15:42	PER	7782-49-2	
Silver	20.9	mg/kg	0.10	6020	06/11/12 15:42	PER	7440-22-4	
Thallium	21.2	mg/kg	0.21	6020	06/11/12 15:42	PER	7440-28-0	
Vanadium	32.2	mg/kg	0.21	6020	06/11/12 15:42	PER	7440-62-2	
Zinc	36.0	mg/kg	1.0	6020	06/11/12 15:42	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,570	ug/kg	40	8270C	06/11/12 16:12	JGH	83-32-9	1
Acenaphthylene	1,700	ug/kg	40	8270C	06/11/12 16:12	JGH	208-96-8	1
Acetophenone	1,610	ug/kg	40	8270C	06/11/12 16:12	JGH	98-86-2	1
Anthracene	1,490	ug/kg	40	8270C	06/11/12 16:12	JGH	120-12-7	1
Atrazine	1,670	ug/kg	40	8270C	06/11/12 16:12	JGH	1912-24-9	1
1,1'-Biphenyl	1,540	ug/kg	40	8270C	06/11/12 16:12	JGH	92-52-4	1
4-Bromophenyl phenyl ether	1,580	ug/kg	40	8270C	06/11/12 16:12	JGH	101-55-3	1
di-n-Butyl phthalate	1,510	ug/kg	80	8270C	06/11/12 16:12	JGH	84-74-2	B1
Benzaldehyde	1,510	ug/kg	40	8270C	06/11/12 16:12	JGH	100-52-7	1
Benzo(a)anthracene	1,680	ug/kg	40	8270C	06/11/12 16:12	JGH	56-55-3	1
Benzo(a)pyrene	1,480	ug/kg	40	8270C	06/11/12 16:12	JGH	50-32-8	1

1-Spiked at 1.67mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.22 (continued)

Sample Tag: SB-A5.1-MI125_16-17 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(b)fluoranthene	1,570	ug/kg	40	8270C	06/11/12 16:12	JGH	205-99-2	1
Benzo(ghi)perylene	2,040	ug/kg	40	8270C	06/11/12 16:12	JGH	191-24-2	1
Benzo(k)fluoranthene	1,550	ug/kg	40	8270C	06/11/12 16:12	JGH	207-08-9	1
Butyl benzyl phthalate	1,580	ug/kg	40	8270C	06/11/12 16:12	JGH	85-68-7	1
2-Chloronaphthalene	1,540	ug/kg	40	8270C	06/11/12 16:12	JGH	91-58-7	1
2-Chlorophenol	1,570	ug/kg	40	8270C	06/11/12 16:12	JGH	95-57-8	1
4-Chloro-3-methylphenol	1,620	ug/kg	40	8270C	06/11/12 16:12	JGH	59-50-7	1
4-Chloroaniline	1,470	ug/kg	40	8270C	06/11/12 16:12	JGH	106-47-8	1
4-Chlorophenyl phenyl ether	2,120	ug/kg	40	8270C	06/11/12 16:12	JGH	7005-72-3	1
Caprolactam	1,730	ug/kg	40	8270C	06/11/12 16:12	JGH	105-60-2	1
Carbazole	1,630	ug/kg	40	8270C	06/11/12 16:12	JGH	86-74-8	1
bis(2-Chloroethoxy)methane	1,430	ug/kg	40	8270C	06/11/12 16:12	JGH	111-91-1	1
bis(2-Chloroethyl)ether	1,510	ug/kg	40	8270C	06/11/12 16:12	JGH	111-44-4	1
bis(2-Chloroisopropyl)ether	1,490	ug/kg	40	8270C	06/11/12 16:12	JGH	108-60-1	1
Chrysene	1,590	ug/kg	40	8270C	06/11/12 16:12	JGH	218-01-9	1
2,4-Dichlorophenol	1,580	ug/kg	40	8270C	06/11/12 16:12	JGH	120-83-2	1
2,4-Dimethylphenol	1,480	ug/kg	40	8270C	06/11/12 16:12	JGH	105-67-9	1
2,4-Dinitrophenol	960	ug/kg	40	8270C	06/11/12 16:12	JGH	51-28-5	1
2,4-Dinitrotoluene	1,580	ug/kg	40	8270C	06/11/12 16:12	JGH	121-14-2	1
2,6-Dinitrotoluene	1,810	ug/kg	40	8270C	06/11/12 16:12	JGH	606-20-2	1
3,3'-Dichlorobenzidine	1,710	ug/kg	40	8270C	06/11/12 16:12	JGH	91-94-1	1
4,6-Dinitro-2-methylphenol	1,230	ug/kg	40	8270C	06/11/12 16:12	JGH	534-52-1	1
Dibenzo(ah)anthracene	2,200	ug/kg	80	8270C	06/11/12 16:12	JGH	53-70-3	1
Dibenzofuran	1,630	ug/kg	40	8270C	06/11/12 16:12	JGH	132-64-9	1
Diethyl phthalate	1,640	ug/kg	80	8270C	06/11/12 16:12	JGH	84-66-2	1
Dimethyl phthalate	1,770	ug/kg	40	8270C	06/11/12 16:12	JGH	131-11-3	B1
bis(2-Ethylhexyl)phthalate	1,650	ug/kg	80	8270C	06/11/12 16:12	JGH	117-81-7	1
Fluoranthene	1,590	ug/kg	40	8270C	06/11/12 16:12	JGH	206-44-0	1
Fluorene	1,980	ug/kg	40	8270C	06/11/12 16:12	JGH	86-73-7	1
Hexachlorobenzene	1,480	ug/kg	40	8270C	06/11/12 16:12	JGH	118-74-1	1
Hexachlorobutadiene	1,330	ug/kg	40	8270C	06/11/12 16:12	JGH	87-68-3	1
Hexachlorocyclopentadiene	1,110	ug/kg	40	8270C	06/11/12 16:12	JGH	77-47-4	1
Hexachloroethane	1,400	ug/kg	40	8270C	06/11/12 16:12	JGH	67-72-1	1
Indeno(1,2,3-cd)pyrene	2,040	ug/kg	40	8270C	06/11/12 16:12	JGH	193-39-5	1
Isophorone	1,510	ug/kg	40	8270C	06/11/12 16:12	JGH	78-59-1	1
2-Methylnaphthalene	1,510	ug/kg	40	8270C	06/11/12 16:12	JGH	91-57-6	1
2-Methylphenol	1,680	ug/kg	40	8270C	06/11/12 16:12	JGH	95-48-7	1
3-, 4-Methylphenol	2,010	ug/kg	80	8270C	06/11/12 16:12	JGH	3/4-Cresol	1
2-Nitroaniline	1,680	ug/kg	40	8270C	06/11/12 16:12	JGH	88-74-4	1
2-Nitrophenol	1,490	ug/kg	40	8270C	06/11/12 16:12	JGH	88-75-5	1
3-Nitroaniline	1,600	ug/kg	40	8270C	06/11/12 16:12	JGH	99-09-2	1
4-Nitroaniline	1,780	ug/kg	40	8270C	06/11/12 16:12	JGH	100-01-6	1
4-Nitrophenol	1,450	ug/kg	40	8270C	06/11/12 16:12	JGH	100-02-7	1
N-Nitrosodi-n-propylamine	1,650	ug/kg	40	8270C	06/11/12 16:12	JGH	621-64-7	1
N-Nitrosodiphenylamine	1,170	ug/kg	40	8270C	06/11/12 16:12	JGH	86-30-6	1
Naphthalene	1,450	ug/kg	40	8270C	06/11/12 16:12	JGH	91-20-3	1
Nitrobenzene	1,380	ug/kg	40	8270C	06/11/12 16:12	JGH	98-95-3	1

1-Spiked at 1.67mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.22 (continued)

Sample Tag: SB-A5.1-MI125_16-17 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
di-n-Octyl phthalate	1,620	ug/kg	80	8270C	06/11/12 16:12	JGH	117-84-0	1
Pentachlorophenol	1,290	ug/kg	40	8270C	06/11/12 16:12	JGH	87-86-5	1
Phenanthrene	1,530	ug/kg	40	8270C	06/11/12 16:12	JGH	85-01-8	1
Phenol	1,660	ug/kg	40	8270C	06/11/12 16:12	JGH	108-95-2	1
Pyrene	1,590	ug/kg	40	8270C	06/11/12 16:12	JGH	129-00-0	1
2,4,5-Trichlorophenol	1,670	ug/kg	40	8270C	06/11/12 16:12	JGH	95-95-4	1
2,4,6-Trichlorophenol	1,580	ug/kg	40	8270C	06/11/12 16:12	JGH	88-06-2	1
Organics - Volatiles								
1,4-Dioxane	24,000	ug/kg	6,000	8260B	06/11/12 19:46	WAT	123-91-1	2
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	3,330	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	76-13-1	3
Acetone	4,260	ug/kg	640	5035/8260B	06/11/12 19:46	WAT	67-64-1	3
Carbon disulfide	3,130	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	75-15-0	3
Methyl Acetate	3,210	ug/kg	640	5035/8260B	06/11/12 19:46	WAT	79-20-9	3
tert-Methyl butyl ether (MTBE)	3,410	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	1634-04-4	3
2-Butanone (MEK)	3,770	ug/kg	640	5035/8260B	06/11/12 19:46	WAT	78-93-3	3
Dichlorodifluoromethane	2,910	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	75-71-8	3
Chloromethane	2,960	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	74-87-3	3
Vinyl chloride	3,110	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	75-01-4	3
Bromomethane	2,760	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	74-83-9	3
Chloroethane	2,520	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	75-00-3	3
Trichlorofluoromethane	2,890	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	75-69-4	3
1,1-Dichloroethene	2,850	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	75-35-4	3
Methylene chloride	3,110	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	75-09-2	3
trans-1,2-Dichloroethene	3,130	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	156-60-5	3
1,1-Dichloroethane	3,140	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	75-34-3	3
cis-1,2-Dichloroethene	3,140	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	156-59-2	3
Chloroform	3,180	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	67-66-3	3
1,1,1-Trichloroethane	3,250	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	71-55-6	3
Cyclohexane	2,560	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	110-82-7	3
4-Methyl-2-pentanone (MIBK)	3,460	ug/kg	640	5035/8260B	06/11/12 19:46	WAT	108-10-1	3
2-Hexanone	3,940	ug/kg	640	5035/8260B	06/11/12 19:46	WAT	591-78-6	3
Carbon tetrachloride	3,420	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	56-23-5	3
Benzene	3,330	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	71-43-2	3
1,2-Dichloroethane	3,350	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	107-06-2	3
Trichloroethene	3,390	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	79-01-6	3
1,2-Dichloropropane	3,400	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	78-87-5	3
Bromodichloromethane	3,420	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	75-27-4	3
Methyl cyclohexane	3,360	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	108-87-2	3
cis-1,3-Dichloropropene	3,460	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	10061-01-5	3
Toluene	3,300	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	108-88-3	3
trans-1,3-Dichloropropene	3,640	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	10061-02-6	3
1,1,2-Trichloroethane	3,460	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	79-00-5	3
Tetrachloroethene	3,380	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	127-18-4	3

1-Spiked at 1.67mg/kg

2-Spiked at 20mg/kg

3-Spiked at 2.5mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.22 (continued)

Sample Tag: SB-A5.1-MI125_16-17 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Dibromochloromethane	3,310	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	124-48-1	1
1,2-Dibromoethane	3,620	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	106-93-4	1
Chlorobenzene	3,400	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	108-90-7	1
1,1,2,2-Tetrachloroethane	3,590	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	79-34-5	1
Ethylbenzene	3,440	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	100-41-4	1
p,m-Xylene	7,000	ug/kg	100	5035/8260B	06/11/12 19:46	WAT		1
o-Xylene	3,500	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	95-47-6	1
Styrene	3,530	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	100-42-5	1
Isopropylbenzene	3,470	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	98-82-8	1
Bromoform	3,340	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	75-25-2	1
1,3-Dichlorobenzene	3,490	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	541-73-1	1
1,4-Dichlorobenzene	3,350	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	106-46-7	1
1,2-Dichlorobenzene	3,450	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	95-50-1	1
1,2-Dibromo-3-chloropropane	3,580	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	96-12-8	1
1,2,4-Trichlorobenzene	3,730	ug/kg	60	5035/8260B	06/11/12 19:46	WAT	120-82-1	1

1-Spiked at 2.5mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.23

Sample Tag: SB-A5.1-MI125_16-17 MSD

Collected Date/Time: 06/05/2012 15:58

Matrix: Soil

COC Reference: 69067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 23:33	EMR		
Mercury Digestion	Completed			7471A	06/07/12 14:35	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:30	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	22.7	mg/kg	0.21	6020	06/11/12 15:44	PER	7440-36-0	
Arsenic	24.6	mg/kg	0.10	6020	06/11/12 15:44	PER	7440-38-2	
Barium	61.3	mg/kg	1.0	6020	06/11/12 15:44	PER	7440-39-3	
Beryllium	21.5	mg/kg	0.21	6020	06/11/12 15:44	PER	7440-41-7	
Boron	24.6	mg/kg	4.2	6020	06/11/12 15:44	PER	7440-42-8	
Cadmium	21.6	mg/kg	0.10	6020	06/11/12 15:44	PER	7440-43-9	
Chromium	29.1	mg/kg	0.21	6020	06/11/12 15:44	PER	7440-47-3	
Cobalt	26.3	mg/kg	0.21	6020	06/11/12 15:44	PER	7440-48-4	
Copper	30.3	mg/kg	0.21	6020	06/11/12 15:44	PER	7440-50-8	
Lead	25.2	mg/kg	0.21	6020	06/11/12 15:44	PER	7439-92-1	
Manganese	267	mg/kg	0.21	6020	06/11/12 15:44	PER	7439-96-5	
Mercury	0.1317	mg/kg	0.0056	7471A	06/08/12 13:38	JRT	7439-97-6	
Nickel	33.6	mg/kg	0.21	6020	06/11/12 15:44	PER	7440-02-0	
Selenium	23.1	mg/kg	0.21	6020	06/11/12 15:44	PER	7782-49-2	
Silver	20.7	mg/kg	0.10	6020	06/11/12 15:44	PER	7440-22-4	
Thallium	21.0	mg/kg	0.21	6020	06/11/12 15:44	PER	7440-28-0	
Vanadium	31.7	mg/kg	0.21	6020	06/11/12 15:44	PER	7440-62-2	
Zinc	36.1	mg/kg	1.0	6020	06/11/12 15:44	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,870	ug/kg	40	8270C	06/11/12 16:42	JGH	83-32-9	1
Acenaphthylene	2,000	ug/kg	40	8270C	06/11/12 16:42	JGH	208-96-8	1
Acetophenone	1,770	ug/kg	40	8270C	06/11/12 16:42	JGH	98-86-2	1
Anthracene	1,820	ug/kg	40	8270C	06/11/12 16:42	JGH	120-12-7	1
Atrazine	2,040	ug/kg	40	8270C	06/11/12 16:42	JGH	1912-24-9	1
1,1'-Biphenyl	1,850	ug/kg	40	8270C	06/11/12 16:42	JGH	92-52-4	1
4-Bromophenyl phenyl ether	1,900	ug/kg	40	8270C	06/11/12 16:42	JGH	101-55-3	1
di-n-Butyl phthalate	1,780	ug/kg	80	8270C	06/11/12 16:42	JGH	84-74-2	B1
Benzaldehyde	1,620	ug/kg	40	8270C	06/11/12 16:42	JGH	100-52-7	1
Benzo(a)anthracene	2,020	ug/kg	40	8270C	06/11/12 16:42	JGH	56-55-3	1
Benzo(a)pyrene	1,800	ug/kg	40	8270C	06/11/12 16:42	JGH	50-32-8	1

1-Spiked at 1.67mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.23 (continued)

Sample Tag: SB-A5.1-MI125_16-17 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(b)fluoranthene	1,970	ug/kg	40	8270C	06/11/12 16:42	JGH	205-99-2	1
Benzo(ghi)perylene	2,430	ug/kg	40	8270C	06/11/12 16:42	JGH	191-24-2	1
Benzo(k)fluoranthene	1,800	ug/kg	40	8270C	06/11/12 16:42	JGH	207-08-9	1
Butyl benzyl phthalate	1,890	ug/kg	40	8270C	06/11/12 16:42	JGH	85-68-7	1
2-Chloronaphthalene	1,840	ug/kg	40	8270C	06/11/12 16:42	JGH	91-58-7	1
2-Chlorophenol	1,710	ug/kg	40	8270C	06/11/12 16:42	JGH	95-57-8	1
4-Chloro-3-methylphenol	1,900	ug/kg	40	8270C	06/11/12 16:42	JGH	59-50-7	1
4-Chloroaniline	1,710	ug/kg	40	8270C	06/11/12 16:42	JGH	106-47-8	1
4-Chlorophenyl phenyl ether	2,490	ug/kg	40	8270C	06/11/12 16:42	JGH	7005-72-3	1
Caprolactam	2,040	ug/kg	40	8270C	06/11/12 16:42	JGH	105-60-2	1
Carbazole	1,950	ug/kg	40	8270C	06/11/12 16:42	JGH	86-74-8	1
bis(2-Chloroethoxy)methane	1,650	ug/kg	40	8270C	06/11/12 16:42	JGH	111-91-1	1
bis(2-Chloroethyl)ether	1,610	ug/kg	40	8270C	06/11/12 16:42	JGH	111-44-4	1
bis(2-Chloroisopropyl)ether	1,620	ug/kg	40	8270C	06/11/12 16:42	JGH	108-60-1	1
Chrysene	1,920	ug/kg	40	8270C	06/11/12 16:42	JGH	218-01-9	1
2,4-Dichlorophenol	1,830	ug/kg	40	8270C	06/11/12 16:42	JGH	120-83-2	1
2,4-Dimethylphenol	1,680	ug/kg	40	8270C	06/11/12 16:42	JGH	105-67-9	1
2,4-Dinitrophenol	1,180	ug/kg	40	8270C	06/11/12 16:42	JGH	51-28-5	1
2,4-Dinitrotoluene	1,940	ug/kg	40	8270C	06/11/12 16:42	JGH	121-14-2	1
2,6-Dinitrotoluene	2,170	ug/kg	40	8270C	06/11/12 16:42	JGH	606-20-2	1
3,3'-Dichlorobenzidine	2,050	ug/kg	40	8270C	06/11/12 16:42	JGH	91-94-1	1
4,6-Dinitro-2-methylphenol	1,570	ug/kg	40	8270C	06/11/12 16:42	JGH	534-52-1	1
Dibenzo(ah)anthracene	2,650	ug/kg	80	8270C	06/11/12 16:42	JGH	53-70-3	1
Dibenzofuran	1,940	ug/kg	40	8270C	06/11/12 16:42	JGH	132-64-9	1
Diethyl phthalate	2,010	ug/kg	80	8270C	06/11/12 16:42	JGH	84-66-2	1
Dimethyl phthalate	2,160	ug/kg	40	8270C	06/11/12 16:42	JGH	131-11-3	B1
bis(2-Ethylhexyl)phthalate	1,950	ug/kg	80	8270C	06/11/12 16:42	JGH	117-81-7	1
Fluoranthene	1,900	ug/kg	40	8270C	06/11/12 16:42	JGH	206-44-0	1
Fluorene	2,330	ug/kg	40	8270C	06/11/12 16:42	JGH	86-73-7	1
Hexachlorobenzene	1,790	ug/kg	40	8270C	06/11/12 16:42	JGH	118-74-1	1
Hexachlorobutadiene	1,490	ug/kg	40	8270C	06/11/12 16:42	JGH	87-68-3	1
Hexachlorocyclopentadiene	1,310	ug/kg	40	8270C	06/11/12 16:42	JGH	77-47-4	1
Hexachloroethane	1,490	ug/kg	40	8270C	06/11/12 16:42	JGH	67-72-1	1
Indeno(1,2,3-cd)pyrene	2,460	ug/kg	40	8270C	06/11/12 16:42	JGH	193-39-5	1
Isophorone	1,740	ug/kg	40	8270C	06/11/12 16:42	JGH	78-59-1	1
2-Methylnaphthalene	1,740	ug/kg	40	8270C	06/11/12 16:42	JGH	91-57-6	1
2-Methylphenol	1,830	ug/kg	40	8270C	06/11/12 16:42	JGH	95-48-7	1
3-, 4-Methylphenol	2,160	ug/kg	80	8270C	06/11/12 16:42	JGH	3/4-Cresol	1
2-Nitroaniline	1,990	ug/kg	40	8270C	06/11/12 16:42	JGH	88-74-4	1
2-Nitrophenol	1,680	ug/kg	40	8270C	06/11/12 16:42	JGH	88-75-5	1
3-Nitroaniline	1,920	ug/kg	40	8270C	06/11/12 16:42	JGH	99-09-2	1
4-Nitroaniline	2,160	ug/kg	40	8270C	06/11/12 16:42	JGH	100-01-6	1
4-Nitrophenol	1,900	ug/kg	40	8270C	06/11/12 16:42	JGH	100-02-7	1
N-Nitrosodi-n-propylamine	1,830	ug/kg	40	8270C	06/11/12 16:42	JGH	621-64-7	1
N-Nitrosodiphenylamine	1,430	ug/kg	40	8270C	06/11/12 16:42	JGH	86-30-6	1
Naphthalene	1,640	ug/kg	40	8270C	06/11/12 16:42	JGH	91-20-3	1
Nitrobenzene	1,570	ug/kg	40	8270C	06/11/12 16:42	JGH	98-95-3	1

1-Spiked at 1.67mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.23 (continued)
Sample Tag: SB-A5.1-MI125_16-17 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
di-n-Octyl phthalate	1,950	ug/kg	80	8270C	06/11/12 16:42	JGH	117-84-0	1
Pentachlorophenol	1,640	ug/kg	40	8270C	06/11/12 16:42	JGH	87-86-5	1
Phenanthrene	1,830	ug/kg	40	8270C	06/11/12 16:42	JGH	85-01-8	1
Phenol	1,800	ug/kg	40	8270C	06/11/12 16:42	JGH	108-95-2	1
Pyrene	1,900	ug/kg	40	8270C	06/11/12 16:42	JGH	129-00-0	1
2,4,5-Trichlorophenol	1,990	ug/kg	40	8270C	06/11/12 16:42	JGH	95-95-4	1
2,4,6-Trichlorophenol	1,920	ug/kg	40	8270C	06/11/12 16:42	JGH	88-06-2	1
Organics - Volatiles								
1,4-Dioxane	23,000	ug/kg	7,000	8260B	06/11/12 20:04	WAT	123-91-1	2
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	3,260	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	76-13-1	3
Acetone	4,560	ug/kg	650	5035/8260B	06/11/12 20:04	WAT	67-64-1	3
Carbon disulfide	3,070	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	75-15-0	3
Methyl Acetate	3,070	ug/kg	650	5035/8260B	06/11/12 20:04	WAT	79-20-9	3
tert-Methyl butyl ether (MTBE)	3,250	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	1634-04-4	3
2-Butanone (MEK)	3,790	ug/kg	650	5035/8260B	06/11/12 20:04	WAT	78-93-3	3
Dichlorodifluoromethane	2,790	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	75-71-8	3
Chloromethane	2,780	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	74-87-3	3
Vinyl chloride	2,920	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	75-01-4	3
Bromomethane	2,580	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	74-83-9	3
Chloroethane	2,470	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	75-00-3	3
Trichlorofluoromethane	2,860	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	75-69-4	3
1,1-Dichloroethene	2,990	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	75-35-4	3
Methylene chloride	2,960	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	75-09-2	3
trans-1,2-Dichloroethene	3,020	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	156-60-5	3
1,1-Dichloroethane	2,990	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	75-34-3	3
cis-1,2-Dichloroethene	3,050	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	156-59-2	3
Chloroform	3,080	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	67-66-3	3
1,1,1-Trichloroethane	3,120	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	71-55-6	3
Cyclohexane	2,430	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	110-82-7	3
4-Methyl-2-pentanone (MIBK)	3,410	ug/kg	650	5035/8260B	06/11/12 20:04	WAT	108-10-1	3
2-Hexanone	4,210	ug/kg	650	5035/8260B	06/11/12 20:04	WAT	591-78-6	3
Carbon tetrachloride	3,420	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	56-23-5	3
Benzene	3,280	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	71-43-2	3
1,2-Dichloroethane	3,300	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	107-06-2	3
Trichloroethene	3,340	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	79-01-6	3
1,2-Dichloropropane	3,360	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	78-87-5	3
Bromodichloromethane	3,420	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	75-27-4	3
Methyl cyclohexane	3,250	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	108-87-2	3
cis-1,3-Dichloropropene	3,450	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	10061-01-5	3
Toluene	3,240	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	108-88-3	3
trans-1,3-Dichloropropene	3,650	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	10061-02-6	3
1,1,2-Trichloroethane	3,400	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	79-00-5	3
Tetrachloroethene	3,350	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	127-18-4	3

1-Spiked at 1.67mg/kg
2-Spiked at 20mg/kg
3-Spiked at 2.5mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.23 (continued)
Sample Tag: SB-A5.1-MI125_16-17 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Dibromochloromethane	3,320	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	124-48-1	1
1,2-Dibromoethane	3,530	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	106-93-4	1
Chlorobenzene	3,380	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	108-90-7	1
1,1,2,2-Tetrachloroethane	3,380	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	79-34-5	1
Ethylbenzene	3,380	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	100-41-4	1
p,m-Xylene	6,900	ug/kg	100	5035/8260B	06/11/12 20:04	WAT		1
o-Xylene	3,440	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	95-47-6	1
Styrene	3,450	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	100-42-5	1
Isopropylbenzene	3,400	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	98-82-8	1
Bromoform	3,400	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	75-25-2	1
1,3-Dichlorobenzene	3,460	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	541-73-1	1
1,4-Dichlorobenzene	3,330	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	106-46-7	1
1,2-Dichlorobenzene	3,400	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	95-50-1	1
1,2-Dibromo-3-chloropropane	3,620	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	96-12-8	1
1,2,4-Trichlorobenzene	3,660	ug/kg	70	5035/8260B	06/11/12 20:04	WAT	120-82-1	1

1-Spiked at 2.5mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.24

Sample Tag: SB-A5.1-MG123_10-11

Collected Date/Time: 06/05/2012 16:18

Matrix: Soil

COC Reference: 69067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 23:33	EMR		
Mercury Digestion	Completed			7471A	06/07/12 14:35	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:30	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/11/12 15:47	PER	7440-36-0	
Arsenic	0.33	mg/kg	0.10	6020	06/11/12 15:47	PER	7440-38-2	
Barium	46.0	mg/kg	1.0	6020	06/11/12 15:47	PER	7440-39-3	
Beryllium	0.28	mg/kg	0.21	6020	06/11/12 15:47	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/11/12 15:47	PER	7440-42-8	
Cadmium	0.22	mg/kg	0.10	6020	06/11/12 15:47	PER	7440-43-9	
Chromium	8.85	mg/kg	0.21	6020	06/11/12 15:47	PER	7440-47-3	
Cobalt	4.49	mg/kg	0.21	6020	06/11/12 15:47	PER	7440-48-4	
Copper	13.1	mg/kg	0.21	6020	06/11/12 15:47	PER	7440-50-8	
Lead	6.10	mg/kg	0.21	6020	06/11/12 15:47	PER	7439-92-1	
Manganese	248	mg/kg	0.21	6020	06/11/12 15:47	PER	7439-96-5	
Mercury	0.0111	mg/kg	0.0059	7471A	06/08/12 13:31	JRT	7439-97-6	
Nickel	16.4	mg/kg	0.21	6020	06/11/12 15:47	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/11/12 15:47	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/11/12 15:47	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/11/12 15:47	PER	7440-28-0	
Vanadium	8.51	mg/kg	0.21	6020	06/11/12 15:47	PER	7440-62-2	
Zinc	24.6	mg/kg	1.0	6020	06/11/12 15:47	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/11/12 17:41	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.24 (continued)

Sample Tag: SB-A5.1-MG123_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/11/12 17:41	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/11/12 17:41	JGH	84-66-2	
Dimethyl phthalate	150	ug/kg	40	8270C	06/11/12 17:41	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/11/12 17:41	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/11/12 17:41	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/11/12 17:41	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.24 (continued)

Sample Tag: SB-A5.1-MG123_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 17:41	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/11/12 03:27	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	76-13-1	
Acetone	Not detected	ug/kg	710	5035/8260B	06/11/12 03:27	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	710	5035/8260B	06/11/12 03:27	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	710	5035/8260B	06/11/12 03:27	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	710	5035/8260B	06/11/12 03:27	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	710	5035/8260B	06/11/12 03:27	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/11/12 03:27	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.24 (continued)

Sample Tag: SB-A5.1-MG123_10-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 03:27	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.25
Sample Tag: SB-A5.1-MG123_20-21
Collected Date/Time: 06/05/2012 16:20
Matrix: Soil
COC Reference: 69067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 23:33	EMR		
Mercury Digestion	Completed			7471A	06/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:30	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/11/12 16:00	PER	7440-36-0	
Arsenic	1.77	mg/kg	0.10	6020	06/11/12 16:00	PER	7440-38-2	
Barium	37.8	mg/kg	1.0	6020	06/11/12 16:00	PER	7440-39-3	
Beryllium	0.21	mg/kg	0.21	6020	06/11/12 16:00	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/11/12 16:00	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/11/12 16:00	PER	7440-43-9	
Chromium	5.85	mg/kg	0.21	6020	06/11/12 16:00	PER	7440-47-3	
Cobalt	3.94	mg/kg	0.21	6020	06/11/12 16:00	PER	7440-48-4	
Copper	8.96	mg/kg	0.21	6020	06/11/12 16:00	PER	7440-50-8	
Lead	4.41	mg/kg	0.21	6020	06/11/12 16:00	PER	7439-92-1	
Manganese	257	mg/kg	0.21	6020	06/11/12 16:00	PER	7439-96-5	
Mercury	0.0104	mg/kg	0.0056	7471A	06/08/12 13:50	JRT	7439-97-6	
Nickel	13.1	mg/kg	0.21	6020	06/11/12 16:00	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/11/12 16:00	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/11/12 16:00	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/11/12 16:00	PER	7440-28-0	
Vanadium	8.56	mg/kg	0.21	6020	06/11/12 16:00	PER	7440-62-2	
Zinc	14.7	mg/kg	1.0	6020	06/11/12 16:00	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/11/12 18:11	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.25 (continued)

Sample Tag: SB-A5.1-MG123_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/11/12 18:11	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/11/12 18:11	JGH	84-66-2	
Dimethyl phthalate	100	ug/kg	40	8270C	06/11/12 18:11	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/11/12 18:11	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/11/12 18:11	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/11/12 18:11	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.25 (continued)

Sample Tag: SB-A5.1-MG123_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 18:11	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/11/12 03:45	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	76-13-1	
Acetone	Not detected	ug/kg	620	5035/8260B	06/11/12 03:45	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	620	5035/8260B	06/11/12 03:45	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	620	5035/8260B	06/11/12 03:45	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	620	5035/8260B	06/11/12 03:45	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	620	5035/8260B	06/11/12 03:45	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/11/12 03:45	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.25 (continued)

Sample Tag: SB-A5.1-MG123_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 03:45	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.26
Sample Tag: SB-A5.1-MG123_12-16
Collected Date/Time: 06/05/2012 16:50
Matrix: Groundwater
COC Reference: 69067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.1	IR
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	06/08/12 18:58	EMR		
Mercury Digestion	Completed			7471A	06/08/12 12:00	JRH		
Metal Digestion	Completed			3015A	06/07/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:43	SLS	7440-36-0	
Arsenic, Dissolved	0.006	mg/L	0.002	6020	06/07/12 00:43	SLS	7440-38-2	
Barium, Dissolved	0.131	mg/L	0.010	6020	06/07/12 00:43	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 00:43	SLS	7440-41-7	
Boron, Dissolved	0.95	mg/L	0.04	6020	06/07/12 00:43	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 00:43	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:43	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:43	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:43	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:43	SLS	7439-92-1	
Manganese, Dissolved	0.335	mg/L	0.010	6020	06/07/12 00:43	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	06/08/12 15:16	JRT	7439-97-6	
Nickel, Dissolved	0.018	mg/L	0.010	6020	06/07/12 00:43	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:43	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	06/07/12 00:43	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:43	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:43	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:43	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/13/12 02:30	JGH	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/13/12 02:30	JGH	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	83-32-9	1
Acenaphthylene	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	208-96-8	1
Acetophenone	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	98-86-2	1
Anthracene	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	120-12-7	S1
Atrazine	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	1912-24-9	S1
1,1'-Biphenyl	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	92-52-4	1
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	101-55-3	S1
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	84-74-2	S1
Benzaldehyde	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	100-52-7	1
Benzo(a)anthracene	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	56-55-3	1

1-Second Amber not available for re-extraction
S-Surrogate recovery outside of control limits



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.26 (continued)

Sample Tag: SB-A5.1-MG123_12-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(a)pyrene	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	50-32-8	1
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	205-99-2	1
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	191-24-2	1
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	207-08-9	1
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	85-68-7	1
2-Chloronaphthalene	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	91-58-7	1
2-Chlorophenol	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	95-57-8	1
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	59-50-7	1
4-Chloroaniline	Not detected	ug/L	2	8270C	06/12/12 18:58	JGH	106-47-8	1
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	7005-72-3	1
Caprolactam	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	105-60-2	1
Carbazole	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	86-74-8	S1
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	111-91-1	1
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	111-44-4	1
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	108-60-1	1
Chrysene	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	218-01-9	1
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	120-83-2	1
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	105-67-9	1
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	51-28-5	1
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	121-14-2	1
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	606-20-2	1
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	534-52-1	S1
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	53-70-3	1
Dibenzofuran	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	132-64-9	1
Diethyl phthalate	Not detected	ug/L	2	8270C	06/12/12 18:58	JGH	84-66-2	1
Dimethyl phthalate	Not detected	ug/L	2	8270C	06/12/12 18:58	JGH	131-11-3	1
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	06/12/12 18:58	JGH	117-81-7	1
Fluoranthene	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	206-44-0	S1
Fluorene	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	86-73-7	1
Hexachlorobutadiene	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	87-68-3	1
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	77-47-4	1
Hexachloroethane	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	67-72-1	1
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	193-39-5	1
Isophorone	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	78-59-1	1
2-Methylnaphthalene	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	91-57-6	1
2-Methylphenol	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	95-48-7	1
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	3/4-Cresol	1
2-Nitroaniline	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	88-74-4	1
2-Nitrophenol	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	88-75-5	1
3-Nitroaniline	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	99-09-2	1
4-Nitroaniline	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	100-01-6	1
4-Nitrophenol	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	100-02-7	1
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	621-64-7	1
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	86-30-6	S1
Naphthalene	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	91-20-3	1
Nitrobenzene	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	98-95-3	1
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	117-84-0	1

1-Second Amber not available for re-extraction

S-Surrogate recovery outside of control limits



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.26 (continued)

Sample Tag: SB-A5.1-MG123_12-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Pentachlorophenol	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	87-86-5	S1
Phenanthrene	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	85-01-8	S1
Phenol	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	108-95-2	1
Pyrene	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	129-00-0	1
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	95-95-4	1
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	06/12/12 18:58	JGH	88-06-2	1
Organics - Volatiles								
1,4-Dioxane	13	ug/L	5	8260B - SIM	06/28/12 15:04	JGH	123-91-1	2F
1,4-Dioxane	Not detected	ug/L	100	8260B	06/11/12 01:18	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	06/11/12 01:18	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	06/11/12 01:18	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	06/11/12 01:18	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	06/11/12 01:18	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	06/11/12 01:18	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	124-48-1	

S-Surrogate recovery outside of control limits 1-Second Amber not available for re-extraction

2-Analysis performed outside of holding time per client request. F-Analysis run outside of holding time



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.26 (continued)

Sample Tag: SB-A5.1-MG123_12-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/11/12 01:18	WAT		
o-Xylene	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	06/11/12 01:18	WAT	96-12-8	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.27
Sample Tag: SB-A5.1-MC123_6-7
Collected Date/Time: 06/05/2012 17:10
Matrix: Soil
COC Reference: 69067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 23:33	EMR		
Mercury Digestion	Completed			7471A	06/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:30	PER		

Inorganics

Total Solids	94	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/11/12 16:02	PER	7440-36-0	
Arsenic	1.22	mg/kg	0.10	6020	06/11/12 16:02	PER	7440-38-2	
Barium	19.2	mg/kg	1.0	6020	06/11/12 16:02	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/11/12 16:02	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/11/12 16:02	PER	7440-42-8	
Cadmium	0.36	mg/kg	0.10	6020	06/11/12 16:02	PER	7440-43-9	
Chromium	3.40	mg/kg	0.20	6020	06/11/12 16:02	PER	7440-47-3	
Cobalt	2.32	mg/kg	0.20	6020	06/11/12 16:02	PER	7440-48-4	
Copper	13.2	mg/kg	0.20	6020	06/11/12 16:02	PER	7440-50-8	
Lead	17.8	mg/kg	0.20	6020	06/11/12 16:02	PER	7439-92-1	
Manganese	275	mg/kg	0.20	6020	06/11/12 16:02	PER	7439-96-5	
Mercury	0.0166	mg/kg	0.0053	7471A	06/08/12 13:52	JRT	7439-97-6	
Nickel	9.59	mg/kg	0.20	6020	06/11/12 16:02	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/11/12 16:02	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/11/12 16:02	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/11/12 16:02	PER	7440-28-0	
Vanadium	4.64	mg/kg	0.20	6020	06/11/12 16:02	PER	7440-62-2	
Zinc	25.1	mg/kg	1.0	6020	06/11/12 16:02	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	98-86-2	
Anthracene	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	120-12-7	
Atrazine	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	100	8270C	06/11/12 23:07	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.27 (continued)

Sample Tag: SB-A5.1-MC123_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	105-60-2	
Carbazole	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	108-60-1	
Chrysene	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	100	8270C	06/11/12 23:07	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	100	8270C	06/11/12 23:07	JGH	84-66-2	
Dimethyl phthalate	110	ug/kg	70	8270C	06/11/12 23:07	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	100	8270C	06/11/12 23:07	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	206-44-0	
Fluorene	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	193-39-5	
Isophorone	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	100	8270C	06/11/12 23:07	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	100	8270C	06/11/12 23:07	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.27 (continued)

Sample Tag: SB-A5.1-MC123_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	108-95-2	
Pyrene	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	70	8270C	06/11/12 23:07	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/11/12 04:03	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	76-13-1	
Acetone	Not detected	ug/kg	700	5035/8260B	06/11/12 04:03	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	700	5035/8260B	06/11/12 04:03	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	700	5035/8260B	06/11/12 04:03	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	700	5035/8260B	06/11/12 04:03	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	700	5035/8260B	06/11/12 04:03	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/11/12 04:03	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.27 (continued)

Sample Tag: SB-A5.1-MC123_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 04:03	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.28
Sample Tag: SB-A5.1-MC123_16-17
Collected Date/Time: 06/05/2012 17:20
Matrix: Soil
COC Reference: 69067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 23:33	EMR		
Mercury Digestion	Completed			7471A	06/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:30	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/11/12 16:04	PER	7440-36-0	
Arsenic	1.39	mg/kg	0.10	6020	06/11/12 16:04	PER	7440-38-2	
Barium	35.2	mg/kg	1.0	6020	06/11/12 16:04	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/11/12 16:04	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/11/12 16:04	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/11/12 16:04	PER	7440-43-9	
Chromium	4.78	mg/kg	0.20	6020	06/11/12 16:04	PER	7440-47-3	
Cobalt	3.69	mg/kg	0.20	6020	06/11/12 16:04	PER	7440-48-4	
Copper	10.6	mg/kg	0.20	6020	06/11/12 16:04	PER	7440-50-8	
Lead	4.49	mg/kg	0.20	6020	06/11/12 16:04	PER	7439-92-1	
Manganese	233	mg/kg	0.20	6020	06/11/12 16:04	PER	7439-96-5	
Mercury	0.0104	mg/kg	0.0057	7471A	06/08/12 13:54	JRT	7439-97-6	
Nickel	10.8	mg/kg	0.20	6020	06/11/12 16:04	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/11/12 16:04	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/11/12 16:04	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/11/12 16:04	PER	7440-28-0	
Vanadium	7.26	mg/kg	0.20	6020	06/11/12 16:04	PER	7440-62-2	
Zinc	16.1	mg/kg	1.0	6020	06/11/12 16:04	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/11/12 19:40	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.28 (continued)

Sample Tag: SB-A5.1-MC123_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/11/12 19:40	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/11/12 19:40	JGH	84-66-2	
Dimethyl phthalate	80	ug/kg	40	8270C	06/11/12 19:40	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/11/12 19:40	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/11/12 19:40	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/11/12 19:40	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.28 (continued)

Sample Tag: SB-A5.1-MC123_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 19:40	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/11/12 04:21	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	76-13-1	
Acetone	Not detected	ug/kg	640	5035/8260B	06/11/12 04:21	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	640	5035/8260B	06/11/12 04:21	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	640	5035/8260B	06/11/12 04:21	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	640	5035/8260B	06/11/12 04:21	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	640	5035/8260B	06/11/12 04:21	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/11/12 04:21	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.28 (continued)

Sample Tag: SB-A5.1-MC123_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:21	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.29
Sample Tag: SB-A5.1-DUP81
Collected Date/Time: 06/05/2012 00:01
Matrix: Soil
COC Reference: 69072

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 23:33	EMR		
Mercury Digestion	Completed			7471A	06/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:30	PER		

Inorganics

Total Solids	94	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/11/12 16:06	PER	7440-36-0	
Arsenic	1.04	mg/kg	0.10	6020	06/11/12 16:06	PER	7440-38-2	
Barium	15.7	mg/kg	1.0	6020	06/11/12 16:06	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/11/12 16:06	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/11/12 16:06	PER	7440-42-8	
Cadmium	0.14	mg/kg	0.10	6020	06/11/12 16:06	PER	7440-43-9	
Chromium	2.83	mg/kg	0.20	6020	06/11/12 16:06	PER	7440-47-3	
Cobalt	2.12	mg/kg	0.20	6020	06/11/12 16:06	PER	7440-48-4	
Copper	7.73	mg/kg	0.20	6020	06/11/12 16:06	PER	7440-50-8	
Lead	9.55	mg/kg	0.20	6020	06/11/12 16:06	PER	7439-92-1	
Manganese	216	mg/kg	0.20	6020	06/11/12 16:06	PER	7439-96-5	
Mercury	0.0129	mg/kg	0.0052	7471A	06/08/12 13:56	JRT	7439-97-6	
Nickel	7.20	mg/kg	0.20	6020	06/11/12 16:06	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/11/12 16:06	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/11/12 16:06	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/11/12 16:06	PER	7440-28-0	
Vanadium	3.79	mg/kg	0.20	6020	06/11/12 16:06	PER	7440-62-2	
Zinc	11.5	mg/kg	1.0	6020	06/11/12 16:06	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/11/12 21:09	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.29 (continued)

Sample Tag: SB-A5.1-DUP81

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/11/12 21:09	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/11/12 21:09	JGH	84-66-2	
Dimethyl phthalate	90	ug/kg	40	8270C	06/11/12 21:09	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/11/12 21:09	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/11/12 21:09	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/11/12 21:09	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.29 (continued)

Sample Tag: SB-A5.1-DUP81

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 21:09	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/11/12 04:39	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	76-13-1	
Acetone	Not detected	ug/kg	630	5035/8260B	06/11/12 04:39	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	630	5035/8260B	06/11/12 04:39	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	630	5035/8260B	06/11/12 04:39	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	630	5035/8260B	06/11/12 04:39	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	630	5035/8260B	06/11/12 04:39	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/11/12 04:39	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.29 (continued)

Sample Tag: SB-A5.1-DUP81

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	80	5035/8260B	06/11/12 04:39	WAT	98-82-8	X
Bromoform	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:39	WAT	120-82-1	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.30
Sample Tag: SB-A5.1-MC123_12-16
Collected Date/Time: 06/05/2012 17:35
Matrix: Groundwater
COC Reference: 69072

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.1	IR
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	06/08/12 18:58	EMR		
Mercury Digestion	Completed			7471A	06/08/12 12:00	JRH		
Metal Digestion	Completed			3015A	06/07/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 01:21	SLS	7440-36-0	
Arsenic, Dissolved	0.030	mg/L	0.002	6020	06/07/12 01:21	SLS	7440-38-2	
Barium, Dissolved	0.247	mg/L	0.010	6020	06/07/12 01:21	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 01:21	SLS	7440-41-7	
Boron, Dissolved	0.39	mg/L	0.04	6020	06/07/12 01:21	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 01:21	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 01:21	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 01:21	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 01:21	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 01:21	SLS	7439-92-1	
Manganese, Dissolved	0.425	mg/L	0.010	6020	06/07/12 01:21	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	06/08/12 15:20	JRT	7439-97-6	
Nickel, Dissolved	0.011	mg/L	0.010	6020	06/07/12 01:21	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 01:21	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	06/07/12 01:21	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 01:21	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 01:21	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 01:21	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/13/12 05:26	JGH	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/13/12 05:26	JGH	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	205-99-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.30 (continued)

Sample Tag: SB-A5.1-MC123_12-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	06/12/12 13:45	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	7005-72-3	
Caprolactam	4	ug/L	1	8270C	06/12/12 13:45	JGH	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	06/12/12 13:45	JGH	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	06/12/12 13:45	JGH	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	06/12/12 13:45	JGH	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	85-01-8	
Phenol	2	ug/L	1	8270C	06/12/12 13:45	JGH	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	129-00-0	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.30 (continued)

Sample Tag: SB-A5.1-MC123_12-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	06/12/12 13:45	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	06/28/12 15:22	JGH	123-91-1	1F
1,4-Dioxane	Not detected	ug/L	100	8260B	06/11/12 01:40	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	06/11/12 01:40	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	06/11/12 01:40	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	06/11/12 01:40	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	156-60-5	
1,1-Dichloroethane	2	ug/L	1	8260B	06/11/12 01:40	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	06/11/12 01:40	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	06/11/12 01:40	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/11/12 01:40	WAT		

1-Analysis performed outside of holding time per client request. F-Analysis run outside of holding time



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.30 (continued)

Sample Tag: SB-A5.1-MC123_12-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	06/11/12 01:40	WAT	96-12-8	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.31
Sample Tag: SB-A5.1-MC123_12-16 MS
Collected Date/Time: 06/05/2012 17:35
Matrix: Groundwater
COC Reference: 69072

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.1	IR
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	06/08/12 18:58	EMR		
Mercury Digestion	Completed			7471A	06/08/12 12:00	JRH		
Metal Digestion	Completed			3015A	06/07/12 01:00	SLR		

Metals

Antimony, Dissolved	0.103	mg/L	0.002	6020	06/07/12 01:25	SLS	7440-36-0	
Arsenic, Dissolved	0.141	mg/L	0.002	6020	06/07/12 01:25	SLS	7440-38-2	
Barium, Dissolved	0.350	mg/L	0.010	6020	06/07/12 01:25	SLS	7440-39-3	
Beryllium, Dissolved	0.0862	mg/L	0.001	6020	06/07/12 01:25	SLS	7440-41-7	
Boron, Dissolved	0.47	mg/L	0.04	6020	06/07/12 01:25	SLS	7440-42-8	
Cadmium, Dissolved	0.101	mg/L	0.001	6020	06/07/12 01:25	SLS	7440-43-9	
Chromium, Dissolved	0.104	mg/L	0.010	6020	06/07/12 01:25	SLS	7440-47-3	
Cobalt, Dissolved	0.104	mg/L	0.010	6020	06/07/12 01:25	SLS	7440-48-4	
Copper, Dissolved	0.098	mg/L	0.004	6020	06/07/12 01:25	SLS	7440-50-8	
Lead, Dissolved	0.094	mg/L	0.002	6020	06/07/12 01:25	SLS	7439-92-1	
Manganese, Dissolved	0.526	mg/L	0.010	6020	06/07/12 01:25	SLS	7439-96-5	
Mercury, Dissolved	0.0020	mg/L	0.0001	7471A	06/08/12 15:22	JRT	7439-97-6	
Nickel, Dissolved	0.111	mg/L	0.010	6020	06/07/12 01:25	SLS	7440-02-0	
Selenium, Dissolved	0.105	mg/L	0.002	6020	06/07/12 01:25	SLS	7782-49-2	
Silver, Dissolved	0.0872	mg/L	0.0002	6020	06/07/12 01:25	SLS	7440-22-4	
Thallium, Dissolved	0.0936	mg/L	0.002	6020	06/07/12 01:25	SLS	7440-28-0	
Vanadium, Dissolved	0.106	mg/L	0.002	6020	06/07/12 01:25	SLS	7440-62-2	
Zinc, Dissolved	0.105	mg/L	0.010	6020	06/07/12 01:25	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	1	8270C	06/12/12 14:54	JGH	91-94-1	1
Hexachlorobenzene	58	ug/L	1	8270C	06/12/12 14:54	JGH	118-74-1	1

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	30	ug/L	1	8270C	06/12/12 14:54	JGH	83-32-9	1
Acenaphthylene	32	ug/L	1	8270C	06/12/12 14:54	JGH	208-96-8	1
Acetophenone	28	ug/L	1	8270C	06/12/12 14:54	JGH	98-86-2	1
Anthracene	30	ug/L	1	8270C	06/12/12 14:54	JGH	120-12-7	1
Atrazine	31	ug/L	1	8270C	06/12/12 14:54	JGH	1912-24-9	1
1,1'-Biphenyl	29	ug/L	1	8270C	06/12/12 14:54	JGH	92-52-4	1
4-Bromophenyl phenyl ether	30	ug/L	1	8270C	06/12/12 14:54	JGH	101-55-3	1
di-n-Butyl phthalate	32	ug/L	1	8270C	06/12/12 14:54	JGH	84-74-2	1
Benzaldehyde	28	ug/L	1	8270C	06/12/12 14:54	JGH	100-52-7	1
Benzo(a)anthracene	32	ug/L	1	8270C	06/12/12 14:54	JGH	56-55-3	1
Benzo(a)pyrene	31	ug/L	1	8270C	06/12/12 14:54	JGH	50-32-8	1

1-Spiked at 50ug/L



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.31 (continued)
Sample Tag: SB-A5.1-MC123_12-16 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(b)fluoranthene	35	ug/L	1	8270C	06/12/12 14:54	JGH	205-99-2	1
Benzo(ghi)perylene	28	ug/L	1	8270C	06/12/12 14:54	JGH	191-24-2	1
Benzo(k)fluoranthene	32	ug/L	1	8270C	06/12/12 14:54	JGH	207-08-9	1
Butyl benzyl phthalate	35	ug/L	1	8270C	06/12/12 14:54	JGH	85-68-7	1
2-Chloronaphthalene	28	ug/L	1	8270C	06/12/12 14:54	JGH	91-58-7	1
2-Chlorophenol	27	ug/L	1	8270C	06/12/12 14:54	JGH	95-57-8	1
4-Chloro-3-methylphenol	33	ug/L	1	8270C	06/12/12 14:54	JGH	59-50-7	1
4-Chloroaniline	10	ug/L	2	8270C	06/12/12 14:54	JGH	106-47-8	1
4-Chlorophenyl phenyl ether	30	ug/L	1	8270C	06/12/12 14:54	JGH	7005-72-3	1
Caprolactam	7	ug/L	1	8270C	06/12/12 14:54	JGH	105-60-2	1
Carbazole	32	ug/L	1	8270C	06/12/12 14:54	JGH	86-74-8	1
bis(2-Chloroethoxy)methane	29	ug/L	1	8270C	06/12/12 14:54	JGH	111-91-1	1
bis(2-Chloroethyl)ether	27	ug/L	1	8270C	06/12/12 14:54	JGH	111-44-4	1
bis(2-Chloroisopropyl)ether	29	ug/L	1	8270C	06/12/12 14:54	JGH	108-60-1	1
Chrysene	31	ug/L	1	8270C	06/12/12 14:54	JGH	218-01-9	1
2,4-Dichlorophenol	32	ug/L	1	8270C	06/12/12 14:54	JGH	120-83-2	1
2,4-Dimethylphenol	31	ug/L	1	8270C	06/12/12 14:54	JGH	105-67-9	1
2,4-Dinitrophenol	38	ug/L	1	8270C	06/12/12 14:54	JGH	51-28-5	1
2,4-Dinitrotoluene	31	ug/L	1	8270C	06/12/12 14:54	JGH	121-14-2	1
2,6-Dinitrotoluene	31	ug/L	1	8270C	06/12/12 14:54	JGH	606-20-2	1
4,6-Dinitro-2-methylphenol	37	ug/L	1	8270C	06/12/12 14:54	JGH	534-52-1	1
Dibenzo(ah)anthracene	29	ug/L	1	8270C	06/12/12 14:54	JGH	53-70-3	1
Dibenzofuran	30	ug/L	1	8270C	06/12/12 14:54	JGH	132-64-9	1
Diethyl phthalate	33	ug/L	2	8270C	06/12/12 14:54	JGH	84-66-2	1
Dimethyl phthalate	33	ug/L	2	8270C	06/12/12 14:54	JGH	131-11-3	1B
bis(2-Ethylhexyl)phthalate	37	ug/L	2	8270C	06/12/12 14:54	JGH	117-81-7	1
Fluoranthene	32	ug/L	1	8270C	06/12/12 14:54	JGH	206-44-0	1
Fluorene	30	ug/L	1	8270C	06/12/12 14:54	JGH	86-73-7	1
Hexachlorobutadiene	23	ug/L	1	8270C	06/12/12 14:54	JGH	87-68-3	1
Hexachlorocyclopentadiene	24	ug/L	1	8270C	06/12/12 14:54	JGH	77-47-4	1
Hexachloroethane	22	ug/L	1	8270C	06/12/12 14:54	JGH	67-72-1	1
Indeno(1,2,3-cd)pyrene	29	ug/L	1	8270C	06/12/12 14:54	JGH	193-39-5	1
Isophorone	32	ug/L	1	8270C	06/12/12 14:54	JGH	78-59-1	1
2-Methylnaphthalene	29	ug/L	1	8270C	06/12/12 14:54	JGH	91-57-6	1
2-Methylphenol	27	ug/L	1	8270C	06/12/12 14:54	JGH	95-48-7	1
3-, 4-Methylphenol	30	ug/L	1	8270C	06/12/12 14:54	JGH	3/4-Cresol	1
2-Nitroaniline	35	ug/L	1	8270C	06/12/12 14:54	JGH	88-74-4	1
2-Nitrophenol	32	ug/L	1	8270C	06/12/12 14:54	JGH	88-75-5	1
3-Nitroaniline	21	ug/L	1	8270C	06/12/12 14:54	JGH	99-09-2	1
4-Nitroaniline	32	ug/L	1	8270C	06/12/12 14:54	JGH	100-01-6	1
4-Nitrophenol	28	ug/L	1	8270C	06/12/12 14:54	JGH	100-02-7	1
N-Nitrosodi-n-propylamine	30	ug/L	1	8270C	06/12/12 14:54	JGH	621-64-7	1
N-Nitrosodiphenylamine	8	ug/L	1	8270C	06/12/12 14:54	JGH	86-30-6	1
Naphthalene	29	ug/L	1	8270C	06/12/12 14:54	JGH	91-20-3	1
Nitrobenzene	28	ug/L	1	8270C	06/12/12 14:54	JGH	98-95-3	1
di-n-Octyl phthalate	42	ug/L	1	8270C	06/12/12 14:54	JGH	117-84-0	1
Pentachlorophenol	29	ug/L	1	8270C	06/12/12 14:54	JGH	87-86-5	1

1-Spiked at 50ug/L

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.31 (continued)
Sample Tag: SB-A5.1-MC123_12-16 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Phenanthrene	33	ug/L	1	8270C	06/12/12 14:54	JGH	85-01-8	1
Phenol	19	ug/L	1	8270C	06/12/12 14:54	JGH	108-95-2	1
Pyrene	32	ug/L	1	8270C	06/12/12 14:54	JGH	129-00-0	1
2,4,5-Trichlorophenol	34	ug/L	1	8270C	06/12/12 14:54	JGH	95-95-4	1
2,4,6-Trichlorophenol	31	ug/L	1	8270C	06/12/12 14:54	JGH	88-06-2	1
Organics - Volatiles								
1,4-Dioxane	400	ug/L	100	8260B	06/11/12 05:41	WAT	123-91-1	2
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	50	ug/L	1	8260B	06/11/12 05:41	WAT	76-13-1	1
Acetone	30	ug/L	10	8260B	06/11/12 05:41	WAT	67-64-1	1
Carbon disulfide	49	ug/L	1	8260B	06/11/12 05:41	WAT	75-15-0	1
Methyl Acetate	51	ug/L	10	8260B	06/11/12 05:41	WAT	79-20-9	1
tert-Methyl butyl ether (MTBE)	53	ug/L	1	8260B	06/11/12 05:41	WAT	1634-04-4	1
2-Butanone (MEK)	40	ug/L	10	8260B	06/11/12 05:41	WAT	78-93-3	1
Dichlorodifluoromethane	27	ug/L	1	8260B	06/11/12 05:41	WAT	75-71-8	1
Chloromethane	39	ug/L	1	8260B	06/11/12 05:41	WAT	74-87-3	1
Vinyl chloride	45	ug/L	1	8260B	06/11/12 05:41	WAT	75-01-4	1
Bromomethane	52	ug/L	1	8260B	06/11/12 05:41	WAT	74-83-9	1
Chloroethane	53	ug/L	1	8260B	06/11/12 05:41	WAT	75-00-3	1
Trichlorofluoromethane	51	ug/L	1	8260B	06/11/12 05:41	WAT	75-69-4	1
1,1-Dichloroethene	48	ug/L	1	8260B	06/11/12 05:41	WAT	75-35-4	1
Methylene chloride	50	ug/L	1	8260B	06/11/12 05:41	WAT	75-09-2	1
trans-1,2-Dichloroethene	50	ug/L	1	8260B	06/11/12 05:41	WAT	156-60-5	1
1,1-Dichloroethane	52	ug/L	1	8260B	06/11/12 05:41	WAT	75-34-3	1
cis-1,2-Dichloroethene	54	ug/L	1	8260B	06/11/12 05:41	WAT	156-59-2	1
Chloroform	51	ug/L	1	8260B	06/11/12 05:41	WAT	67-66-3	1
1,1,1-Trichloroethane	50	ug/L	1	8260B	06/11/12 05:41	WAT	71-55-6	1
Cyclohexane	41	ug/L	1	8260B	06/11/12 05:41	WAT	110-82-7	1
4-Methyl-2-pentanone (MIBK)	56	ug/L	10	8260B	06/11/12 05:41	WAT	108-10-1	1
2-Hexanone	47	ug/L	10	8260B	06/11/12 05:41	WAT	591-78-6	1
Carbon tetrachloride	51	ug/L	1	8260B	06/11/12 05:41	WAT	56-23-5	1
Benzene	55	ug/L	1	8260B	06/11/12 05:41	WAT	71-43-2	1
1,2-Dichloroethane	52	ug/L	1	8260B	06/11/12 05:41	WAT	107-06-2	1
Trichloroethene	54	ug/L	1	8260B	06/11/12 05:41	WAT	79-01-6	1
1,2-Dichloropropane	55	ug/L	1	8260B	06/11/12 05:41	WAT	78-87-5	1
Bromodichloromethane	55	ug/L	1	8260B	06/11/12 05:41	WAT	75-27-4	1
Methyl cyclohexane	52	ug/L	1	8260B	06/11/12 05:41	WAT	108-87-2	1
cis-1,3-Dichloropropene	56	ug/L	1	8260B	06/11/12 05:41	WAT	10061-01-5	1
Toluene	56	ug/L	1	8260B	06/11/12 05:41	WAT	108-88-3	1
trans-1,3-Dichloropropene	56	ug/L	1	8260B	06/11/12 05:41	WAT	10061-02-6	1
1,1,2-Trichloroethane	54	ug/L	1	8260B	06/11/12 05:41	WAT	79-00-5	1
Tetrachloroethene	51	ug/L	1	8260B	06/11/12 05:41	WAT	127-18-4	1
Dibromochloromethane	55	ug/L	1	8260B	06/11/12 05:41	WAT	124-48-1	1
1,2-Dibromoethane	54	ug/L	1	8260B	06/11/12 05:41	WAT	106-93-4	1
Chlorobenzene	54	ug/L	1	8260B	06/11/12 05:41	WAT	108-90-7	1

1-Spiked at 50ug/L
2-Spiked at 0.4mg/l



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.31 (continued)
Sample Tag: SB-A5.1-MC123_12-16 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
1,1,2,2-Tetrachloroethane	55	ug/L	1	8260B	06/11/12 05:41	WAT	79-34-5	1
Ethylbenzene	57	ug/L	1	8260B	06/11/12 05:41	WAT	100-41-4	1
p,m-Xylene	113	ug/L	2	8260B	06/11/12 05:41	WAT		1
o-Xylene	57	ug/L	1	8260B	06/11/12 05:41	WAT	95-47-6	1
Styrene	55	ug/L	1	8260B	06/11/12 05:41	WAT	100-42-5	1
Isopropylbenzene	56	ug/L	1	8260B	06/11/12 05:41	WAT	98-82-8	1
Bromoform	51	ug/L	1	8260B	06/11/12 05:41	WAT	75-25-2	1
1,3-Dichlorobenzene	54	ug/L	1	8260B	06/11/12 05:41	WAT	541-73-1	1
1,4-Dichlorobenzene	53	ug/L	1	8260B	06/11/12 05:41	WAT	106-46-7	1
1,2-Dichlorobenzene	54	ug/L	1	8260B	06/11/12 05:41	WAT	95-50-1	1
1,2,4-Trichlorobenzene	52	ug/L	1	8260B	06/11/12 05:41	WAT	120-82-1	1
1,2-Dibromo-3-chloropropane	54	ug/L	1	8260B	06/11/12 05:41	WAT	96-12-8	1

1-Spiked at 50ug/l



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.32
Sample Tag: SB-A5.1-MC123_12-16 MSD
Collected Date/Time: 06/05/2012 17:35
Matrix: Groundwater
COC Reference: 69072

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.1	IR
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	06/08/12 18:58	EMR		
Mercury Digestion	Completed			7471A	06/08/12 12:00	JRH		
Metal Digestion	Completed			3015A	06/07/12 01:00	SLR		

Metals

Antimony, Dissolved	0.105	mg/L	0.002	6020	06/07/12 01:29	SLS	7440-36-0	
Arsenic, Dissolved	0.141	mg/L	0.002	6020	06/07/12 01:29	SLS	7440-38-2	
Barium, Dissolved	0.346	mg/L	0.010	6020	06/07/12 01:29	SLS	7440-39-3	
Beryllium, Dissolved	0.0859	mg/L	0.001	6020	06/07/12 01:29	SLS	7440-41-7	
Boron, Dissolved	0.46	mg/L	0.04	6020	06/07/12 01:29	SLS	7440-42-8	
Cadmium, Dissolved	0.101	mg/L	0.001	6020	06/07/12 01:29	SLS	7440-43-9	
Chromium, Dissolved	0.104	mg/L	0.010	6020	06/07/12 01:29	SLS	7440-47-3	
Cobalt, Dissolved	0.104	mg/L	0.010	6020	06/07/12 01:29	SLS	7440-48-4	
Copper, Dissolved	0.100	mg/L	0.004	6020	06/07/12 01:29	SLS	7440-50-8	
Lead, Dissolved	0.094	mg/L	0.002	6020	06/07/12 01:29	SLS	7439-92-1	
Manganese, Dissolved	0.526	mg/L	0.010	6020	06/07/12 01:29	SLS	7439-96-5	
Mercury, Dissolved	0.0020	mg/L	0.0001	7471A	06/08/12 15:25	JRT	7439-97-6	
Nickel, Dissolved	0.111	mg/L	0.010	6020	06/07/12 01:29	SLS	7440-02-0	
Selenium, Dissolved	0.105	mg/L	0.002	6020	06/07/12 01:29	SLS	7782-49-2	
Silver, Dissolved	0.0898	mg/L	0.0002	6020	06/07/12 01:29	SLS	7440-22-4	
Thallium, Dissolved	0.0944	mg/L	0.002	6020	06/07/12 01:29	SLS	7440-28-0	
Vanadium, Dissolved	0.108	mg/L	0.002	6020	06/07/12 01:29	SLS	7440-62-2	
Zinc, Dissolved	0.103	mg/L	0.010	6020	06/07/12 01:29	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	1	8270C	06/12/12 15:29	JGH	91-94-1	1
Hexachlorobenzene	58	ug/L	1	8270C	06/12/12 15:29	JGH	118-74-1	1

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	30	ug/L	1	8270C	06/12/12 15:29	JGH	83-32-9	1
Acenaphthylene	32	ug/L	1	8270C	06/12/12 15:29	JGH	208-96-8	1
Acetophenone	27	ug/L	1	8270C	06/12/12 15:29	JGH	98-86-2	1
Anthracene	31	ug/L	1	8270C	06/12/12 15:29	JGH	120-12-7	1
Atrazine	31	ug/L	1	8270C	06/12/12 15:29	JGH	1912-24-9	1
1,1'-Biphenyl	30	ug/L	1	8270C	06/12/12 15:29	JGH	92-52-4	1
4-Bromophenyl phenyl ether	19	ug/L	1	8270C	06/12/12 15:29	JGH	101-55-3	1
di-n-Butyl phthalate	33	ug/L	1	8270C	06/12/12 15:29	JGH	84-74-2	1
Benzaldehyde	27	ug/L	1	8270C	06/12/12 15:29	JGH	100-52-7	1
Benzo(a)anthracene	32	ug/L	1	8270C	06/12/12 15:29	JGH	56-55-3	1
Benzo(a)pyrene	31	ug/L	1	8270C	06/12/12 15:29	JGH	50-32-8	1

1-Spiked at 50ug/L



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.32 (continued)

Sample Tag: SB-A5.1-MC123_12-16 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(b)fluoranthene	34	ug/L	1	8270C	06/12/12 15:29	JGH	205-99-2	1
Benzo(ghi)perylene	27	ug/L	1	8270C	06/12/12 15:29	JGH	191-24-2	1
Benzo(k)fluoranthene	34	ug/L	1	8270C	06/12/12 15:29	JGH	207-08-9	1
Butyl benzyl phthalate	35	ug/L	1	8270C	06/12/12 15:29	JGH	85-68-7	1
2-Chloronaphthalene	28	ug/L	1	8270C	06/12/12 15:29	JGH	91-58-7	1
2-Chlorophenol	27	ug/L	1	8270C	06/12/12 15:29	JGH	95-57-8	1
4-Chloro-3-methylphenol	33	ug/L	1	8270C	06/12/12 15:29	JGH	59-50-7	1
4-Chloroaniline	10	ug/L	2	8270C	06/12/12 15:29	JGH	106-47-8	1
4-Chlorophenyl phenyl ether	30	ug/L	1	8270C	06/12/12 15:29	JGH	7005-72-3	1
Caprolactam	8	ug/L	1	8270C	06/12/12 15:29	JGH	105-60-2	1
Carbazole	32	ug/L	1	8270C	06/12/12 15:29	JGH	86-74-8	1
bis(2-Chloroethoxy)methane	29	ug/L	1	8270C	06/12/12 15:29	JGH	111-91-1	1
bis(2-Chloroethyl)ether	26	ug/L	1	8270C	06/12/12 15:29	JGH	111-44-4	1
bis(2-Chloroisopropyl)ether	29	ug/L	1	8270C	06/12/12 15:29	JGH	108-60-1	1
Chrysene	31	ug/L	1	8270C	06/12/12 15:29	JGH	218-01-9	1
2,4-Dichlorophenol	32	ug/L	1	8270C	06/12/12 15:29	JGH	120-83-2	1
2,4-Dimethylphenol	30	ug/L	1	8270C	06/12/12 15:29	JGH	105-67-9	1
2,4-Dinitrophenol	39	ug/L	1	8270C	06/12/12 15:29	JGH	51-28-5	1
2,4-Dinitrotoluene	31	ug/L	1	8270C	06/12/12 15:29	JGH	121-14-2	1
2,6-Dinitrotoluene	32	ug/L	1	8270C	06/12/12 15:29	JGH	606-20-2	1
4,6-Dinitro-2-methylphenol	38	ug/L	1	8270C	06/12/12 15:29	JGH	534-52-1	1
Dibenzo(ah)anthracene	29	ug/L	1	8270C	06/12/12 15:29	JGH	53-70-3	1
Dibenzofuran	30	ug/L	1	8270C	06/12/12 15:29	JGH	132-64-9	1
Diethyl phthalate	33	ug/L	2	8270C	06/12/12 15:29	JGH	84-66-2	1
Dimethyl phthalate	34	ug/L	2	8270C	06/12/12 15:29	JGH	131-11-3	1B
bis(2-Ethylhexyl)phthalate	38	ug/L	2	8270C	06/12/12 15:29	JGH	117-81-7	1
Fluoranthene	32	ug/L	1	8270C	06/12/12 15:29	JGH	206-44-0	1
Fluorene	31	ug/L	1	8270C	06/12/12 15:29	JGH	86-73-7	1
Hexachlorobutadiene	22	ug/L	1	8270C	06/12/12 15:29	JGH	87-68-3	1
Hexachlorocyclopentadiene	24	ug/L	1	8270C	06/12/12 15:29	JGH	77-47-4	1
Hexachloroethane	22	ug/L	1	8270C	06/12/12 15:29	JGH	67-72-1	1
Indeno(1,2,3-cd)pyrene	29	ug/L	1	8270C	06/12/12 15:29	JGH	193-39-5	1
Isophorone	31	ug/L	1	8270C	06/12/12 15:29	JGH	78-59-1	1
2-Methylnaphthalene	28	ug/L	1	8270C	06/12/12 15:29	JGH	91-57-6	1
2-Methylphenol	27	ug/L	1	8270C	06/12/12 15:29	JGH	95-48-7	1
3-, 4-Methylphenol	30	ug/L	1	8270C	06/12/12 15:29	JGH	3/4-Cresol	1
2-Nitroaniline	36	ug/L	1	8270C	06/12/12 15:29	JGH	88-74-4	1
2-Nitrophenol	30	ug/L	1	8270C	06/12/12 15:29	JGH	88-75-5	1
3-Nitroaniline	22	ug/L	1	8270C	06/12/12 15:29	JGH	99-09-2	1
4-Nitroaniline	31	ug/L	1	8270C	06/12/12 15:29	JGH	100-01-6	1
4-Nitrophenol	29	ug/L	1	8270C	06/12/12 15:29	JGH	100-02-7	1
N-Nitrosodi-n-propylamine	29	ug/L	1	8270C	06/12/12 15:29	JGH	621-64-7	1
N-Nitrosodiphenylamine	25	ug/L	1	8270C	06/12/12 15:29	JGH	86-30-6	1
Naphthalene	28	ug/L	1	8270C	06/12/12 15:29	JGH	91-20-3	1
Nitrobenzene	28	ug/L	1	8270C	06/12/12 15:29	JGH	98-95-3	1
di-n-Octyl phthalate	45	ug/L	1	8270C	06/12/12 15:29	JGH	117-84-0	1
Pentachlorophenol	30	ug/L	1	8270C	06/12/12 15:29	JGH	87-86-5	1

1-Spiked at 50ug/L

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.32 (continued)
Sample Tag: SB-A5.1-MC123_12-16 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Phenanthrene	33	ug/L	1	8270C	06/12/12 15:29	JGH	85-01-8	1
Phenol	20	ug/L	1	8270C	06/12/12 15:29	JGH	108-95-2	1
Pyrene	32	ug/L	1	8270C	06/12/12 15:29	JGH	129-00-0	1
2,4,5-Trichlorophenol	34	ug/L	1	8270C	06/12/12 15:29	JGH	95-95-4	1
2,4,6-Trichlorophenol	32	ug/L	1	8270C	06/12/12 15:29	JGH	88-06-2	1
Organics - Volatiles								
1,4-Dioxane	500	ug/L	100	8260B	06/11/12 06:03	WAT	123-91-1	2
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	50	ug/L	1	8260B	06/11/12 06:03	WAT	76-13-1	1
Acetone	28	ug/L	10	8260B	06/11/12 06:03	WAT	67-64-1	1
Carbon disulfide	49	ug/L	1	8260B	06/11/12 06:03	WAT	75-15-0	1
Methyl Acetate	50	ug/L	10	8260B	06/11/12 06:03	WAT	79-20-9	1
tert-Methyl butyl ether (MTBE)	54	ug/L	1	8260B	06/11/12 06:03	WAT	1634-04-4	1
2-Butanone (MEK)	38	ug/L	10	8260B	06/11/12 06:03	WAT	78-93-3	1
Dichlorodifluoromethane	26	ug/L	1	8260B	06/11/12 06:03	WAT	75-71-8	1
Chloromethane	38	ug/L	1	8260B	06/11/12 06:03	WAT	74-87-3	1
Vinyl chloride	44	ug/L	1	8260B	06/11/12 06:03	WAT	75-01-4	1
Bromomethane	51	ug/L	1	8260B	06/11/12 06:03	WAT	74-83-9	1
Chloroethane	51	ug/L	1	8260B	06/11/12 06:03	WAT	75-00-3	1
Trichlorofluoromethane	50	ug/L	1	8260B	06/11/12 06:03	WAT	75-69-4	1
1,1-Dichloroethene	48	ug/L	1	8260B	06/11/12 06:03	WAT	75-35-4	1
Methylene chloride	49	ug/L	1	8260B	06/11/12 06:03	WAT	75-09-2	1
trans-1,2-Dichloroethene	49	ug/L	1	8260B	06/11/12 06:03	WAT	156-60-5	1
1,1-Dichloroethane	52	ug/L	1	8260B	06/11/12 06:03	WAT	75-34-3	1
cis-1,2-Dichloroethene	53	ug/L	1	8260B	06/11/12 06:03	WAT	156-59-2	1
Chloroform	52	ug/L	1	8260B	06/11/12 06:03	WAT	67-66-3	1
1,1,1-Trichloroethane	50	ug/L	1	8260B	06/11/12 06:03	WAT	71-55-6	1
Cyclohexane	42	ug/L	1	8260B	06/11/12 06:03	WAT	110-82-7	1
4-Methyl-2-pentanone (MIBK)	54	ug/L	10	8260B	06/11/12 06:03	WAT	108-10-1	1
2-Hexanone	45	ug/L	10	8260B	06/11/12 06:03	WAT	591-78-6	1
Carbon tetrachloride	52	ug/L	1	8260B	06/11/12 06:03	WAT	56-23-5	1
Benzene	54	ug/L	1	8260B	06/11/12 06:03	WAT	71-43-2	1
1,2-Dichloroethane	50	ug/L	1	8260B	06/11/12 06:03	WAT	107-06-2	1
Trichloroethene	53	ug/L	1	8260B	06/11/12 06:03	WAT	79-01-6	1
1,2-Dichloropropane	54	ug/L	1	8260B	06/11/12 06:03	WAT	78-87-5	1
Bromodichloromethane	55	ug/L	1	8260B	06/11/12 06:03	WAT	75-27-4	1
Methyl cyclohexane	52	ug/L	1	8260B	06/11/12 06:03	WAT	108-87-2	1
cis-1,3-Dichloropropene	55	ug/L	1	8260B	06/11/12 06:03	WAT	10061-01-5	1
Toluene	55	ug/L	1	8260B	06/11/12 06:03	WAT	108-88-3	1
trans-1,3-Dichloropropene	56	ug/L	1	8260B	06/11/12 06:03	WAT	10061-02-6	1
1,1,2-Trichloroethane	53	ug/L	1	8260B	06/11/12 06:03	WAT	79-00-5	1
Tetrachloroethene	50	ug/L	1	8260B	06/11/12 06:03	WAT	127-18-4	1
Dibromochloromethane	55	ug/L	1	8260B	06/11/12 06:03	WAT	124-48-1	1
1,2-Dibromoethane	54	ug/L	1	8260B	06/11/12 06:03	WAT	106-93-4	1
Chlorobenzene	54	ug/L	1	8260B	06/11/12 06:03	WAT	108-90-7	1

1-Spiked at 50ug/L
2-Spiked at 0.4mg/l



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.32 (continued)
Sample Tag: SB-A5.1-MC123_12-16 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
1,1,2,2-Tetrachloroethane	54	ug/L	1	8260B	06/11/12 06:03	WAT	79-34-5	1
Ethylbenzene	56	ug/L	1	8260B	06/11/12 06:03	WAT	100-41-4	1
p,m-Xylene	111	ug/L	2	8260B	06/11/12 06:03	WAT		1
o-Xylene	56	ug/L	1	8260B	06/11/12 06:03	WAT	95-47-6	1
Styrene	54	ug/L	1	8260B	06/11/12 06:03	WAT	100-42-5	1
Isopropylbenzene	56	ug/L	1	8260B	06/11/12 06:03	WAT	98-82-8	1
Bromoform	51	ug/L	1	8260B	06/11/12 06:03	WAT	75-25-2	1
1,3-Dichlorobenzene	54	ug/L	1	8260B	06/11/12 06:03	WAT	541-73-1	1
1,4-Dichlorobenzene	53	ug/L	1	8260B	06/11/12 06:03	WAT	106-46-7	1
1,2-Dichlorobenzene	54	ug/L	1	8260B	06/11/12 06:03	WAT	95-50-1	1
1,2,4-Trichlorobenzene	54	ug/L	1	8260B	06/11/12 06:03	WAT	120-82-1	1
1,2-Dibromo-3-chloropropane	55	ug/L	1	8260B	06/11/12 06:03	WAT	96-12-8	1

1-Spiked at 50ug/l



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.33
Sample Tag: SB-A5.1-MI119_1-2
Collected Date/Time: 06/05/2012 18:05
Matrix: Soil
COC Reference: 69072

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 23:33	EMR		
Mercury Digestion	Completed			7471A	06/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:30	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/11/12 16:08	PER	7440-36-0	
Arsenic	2.02	mg/kg	0.10	6020	06/11/12 16:08	PER	7440-38-2	
Barium	35.5	mg/kg	1.0	6020	06/11/12 16:08	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/11/12 16:08	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/11/12 16:08	PER	7440-42-8	
Cadmium	0.15	mg/kg	0.10	6020	06/11/12 16:08	PER	7440-43-9	
Chromium	10.8	mg/kg	0.20	6020	06/11/12 16:08	PER	7440-47-3	
Cobalt	35.7	mg/kg	0.20	6020	06/11/12 16:08	PER	7440-48-4	
Copper	13.3	mg/kg	0.20	6020	06/11/12 16:08	PER	7440-50-8	
Lead	10.9	mg/kg	0.20	6020	06/11/12 16:08	PER	7439-92-1	
Manganese	212	mg/kg	0.20	6020	06/11/12 16:08	PER	7439-96-5	
Mercury	0.0076	mg/kg	0.0056	7471A	06/08/12 13:59	JRT	7439-97-6	
Nickel	11.7	mg/kg	0.20	6020	06/11/12 16:08	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/11/12 16:08	PER	7782-49-2	
Silver	3.03	mg/kg	0.10	6020	06/11/12 16:08	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/11/12 16:08	PER	7440-28-0	
Vanadium	5.39	mg/kg	0.20	6020	06/11/12 16:08	PER	7440-62-2	
Zinc	22.1	mg/kg	1.0	6020	06/11/12 16:08	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	98-86-2	
Anthracene	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	120-12-7	
Atrazine	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	8270C	06/12/12 10:39	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	50-32-8	I
Benzo(b)fluoranthene	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	205-99-2	I

I-Matrix interference with internal standard



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.33 (continued)

Sample Tag: SB-A5.1-MI119_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	191-24-2	I
Benzo(k)fluoranthene	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	207-08-9	I
Butyl benzyl phthalate	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	105-60-2	
Carbazole	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	108-60-1	
Chrysene	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	8270C	06/12/12 10:39	JGH	53-70-3	I
Dibenzofuran	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	8270C	06/12/12 10:39	JGH	84-66-2	
Dimethyl phthalate	300	ug/kg	100	8270C	06/12/12 10:39	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	8270C	06/12/12 10:39	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	206-44-0	
Fluorene	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	193-39-5	I
Isophorone	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	8270C	06/12/12 10:39	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	8270C	06/12/12 10:39	JGH	117-84-0	I

I-Matrix interference with internal standard

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.33 (continued)

Sample Tag: SB-A5.1-MI119_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pentachlorophenol	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	85-01-8	
Phenol	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	108-95-2	
Pyrene	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	100	8270C	06/12/12 10:39	JGH	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	98-86-2	
Anthracene	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	120-12-7	
Atrazine	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	8270C	06/13/12 10:52	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	50-32-8	I
Benzo(b)fluoranthene	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	205-99-2	I
Benzo(ghi)perylene	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	191-24-2	I
Benzo(k)fluoranthene	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	207-08-9	I
Butyl benzyl phthalate	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	105-60-2	
Carbazole	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	108-60-1	
Chrysene	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	8270C	06/13/12 10:52	JGH	53-70-3	I
Dibenzofuran	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	8270C	06/13/12 10:52	JGH	84-66-2	
Dimethyl phthalate	300	ug/kg	100	8270C	06/13/12 10:52	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	8270C	06/13/12 10:52	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	206-44-0	

I-Matrix interference with internal standard

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.33 (continued)

Sample Tag: SB-A5.1-MI119_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
Fluorene	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	193-39-5	I
Isophorone	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	8270C	06/13/12 10:52	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	8270C	06/13/12 10:52	JGH	117-84-0	I
Pentachlorophenol	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	85-01-8	
Phenol	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	108-95-2	
Pyrene	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	100	8270C	06/13/12 10:52	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/11/12 04:57	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	76-13-1	
Acetone	Not detected	ug/kg	580	5035/8260B	06/11/12 04:57	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	580	5035/8260B	06/11/12 04:57	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	580	5035/8260B	06/11/12 04:57	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	156-59-2	

I-Matrix interference with internal standard



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.33 (continued)

Sample Tag: SB-A5.1-MI119_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Chloroform	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	580	5035/8260B	06/11/12 04:57	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	580	5035/8260B	06/11/12 04:57	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/11/12 04:57	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/11/12 04:57	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.34

Sample Tag: SB-A5.1-MI119_15-16

Collected Date/Time: 06/05/2012 18:10

Matrix: Soil

COC Reference: 69072

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR
1	40ml Glass	MeOH	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/07/12 23:33	EMR		
Mercury Digestion	Completed			7471A	06/08/12 09:00	JRH		
Metal Digestion	Completed			3050B	06/11/12 09:30	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	06/06/12 14:30	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/11/12 16:15	PER	7440-36-0	
Arsenic	1.99	mg/kg	0.10	6020	06/11/12 16:15	PER	7440-38-2	
Barium	30.9	mg/kg	1.0	6020	06/11/12 16:15	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/11/12 16:15	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/11/12 16:15	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/11/12 16:15	PER	7440-43-9	
Chromium	4.80	mg/kg	0.20	6020	06/11/12 16:15	PER	7440-47-3	
Cobalt	3.47	mg/kg	0.20	6020	06/11/12 16:15	PER	7440-48-4	
Copper	8.50	mg/kg	0.20	6020	06/11/12 16:15	PER	7440-50-8	
Lead	4.47	mg/kg	0.20	6020	06/11/12 16:15	PER	7439-92-1	
Manganese	233	mg/kg	0.20	6020	06/11/12 16:15	PER	7439-96-5	
Mercury	0.0167	mg/kg	0.0055	7471A	06/08/12 14:01	JRT	7439-97-6	
Nickel	11.7	mg/kg	0.20	6020	06/11/12 16:15	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/11/12 16:15	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/11/12 16:15	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/11/12 16:15	PER	7440-28-0	
Vanadium	7.13	mg/kg	0.20	6020	06/11/12 16:15	PER	7440-62-2	
Zinc	13.5	mg/kg	1.0	6020	06/11/12 16:15	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/11/12 20:10	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.34 (continued)

Sample Tag: SB-A5.1-MI119_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/11/12 20:10	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/11/12 20:10	JGH	84-66-2	
Dimethyl phthalate	130	ug/kg	40	8270C	06/11/12 20:10	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/11/12 20:10	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/11/12 20:10	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/11/12 20:10	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.34 (continued)

Sample Tag: SB-A5.1-MI119_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/11/12 20:10	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/11/12 05:15	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	76-13-1	
Acetone	Not detected	ug/kg	670	5035/8260B	06/11/12 05:15	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	670	5035/8260B	06/11/12 05:15	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	670	5035/8260B	06/11/12 05:15	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	670	5035/8260B	06/11/12 05:15	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	670	5035/8260B	06/11/12 05:15	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/11/12 05:15	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.34 (continued)

Sample Tag: SB-A5.1-MI119_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/11/12 05:15	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.35
Sample Tag: SB-A5.1-MI119_9-13
Collected Date/Time: 06/05/2012 18:30
Matrix: Groundwater
COC Reference: 69072

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.1	IR
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	06/08/12 18:58	EMR		
Mercury Digestion	Completed			7471A	06/08/12 12:00	JRH		
Metal Digestion	Completed			3015A	06/07/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:47	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:47	SLS	7440-38-2	
Barium, Dissolved	0.102	mg/L	0.010	6020	06/07/12 00:47	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 00:47	SLS	7440-41-7	
Boron, Dissolved	1.25	mg/L	0.04	6020	06/07/12 00:47	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 00:47	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:47	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:47	SLS	7440-48-4	
Copper, Dissolved	0.005	mg/L	0.002	6020	06/07/12 00:47	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:47	SLS	7439-92-1	
Manganese, Dissolved	0.223	mg/L	0.010	6020	06/07/12 00:47	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	06/08/12 15:18	JRT	7439-97-6	
Nickel, Dissolved	0.029	mg/L	0.010	6020	06/07/12 00:47	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:47	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	06/07/12 00:47	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:47	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:47	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:47	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/13/12 04:57	JGH	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/13/12 04:57	JGH	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	205-99-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.35 (continued)

Sample Tag: SB-A5.1-MI119_9-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	06/12/12 16:04	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	06/12/12 16:04	JGH	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	06/12/12 16:04	JGH	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	06/12/12 16:04	JGH	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	85-01-8	
Phenol	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	129-00-0	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.35 (continued)

Sample Tag: SB-A5.1-MI119_9-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	06/12/12 16:04	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	06/28/12 15:41	JGH	123-91-1	1F
1,4-Dioxane	Not detected	ug/L	100	8260B	06/11/12 02:02	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	06/11/12 02:02	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	06/11/12 02:02	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	06/11/12 02:02	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	156-60-5	
1,1-Dichloroethane	2	ug/L	1	8260B	06/11/12 02:02	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	06/11/12 02:02	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	06/11/12 02:02	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/11/12 02:02	WAT		

1-Analysis performed outside of holding time per client request. F-Analysis run outside of holding time



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52757.35 (continued)

Sample Tag: SB-A5.1-MI119_9-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	06/11/12 02:02	WAT	96-12-8	



69068

INVOICE TO

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208	E-MAIL ADDRESS dfavero@racertrust.org		

Certifications

☐ OHIO VAP ☐ Drinking Water

☐ DoD ☐ NPDES

Project Locations

☐ Detroit ☐ New York

☐ Other Lansing

Special Instructions

Containers & Preservatives

RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		

Rev 1 15.12



2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 2 OF 3

69067

CHAIN OF CUSTODY RECORD

INVOICE TO

REPORT TO

CONTACT NAME **Randy Christensen**
COMPANY **ARCADIS**
ADDRESS **10559 Citations Drive Suite 100**
CITY **Brighton** STATE **MI** ZIP CODE **48116**
PHONE NO. **810-225-1910** FAX NO. **PO 125047**
E-MAIL ADDRESS **randy.christensen@arcadis-us.com** P.O. NO. **Task# 5**

CONTACT NAME **Dave Favero** ☐ SAME
COMPANY **RACER TRUST**
ADDRESS **2930 Ecorse Road**
CITY **Ypsilanti** STATE **MI** ZIP CODE **48198**
PHONE NO. **313-486-9208** E-MAIL ADDRESS **dfavero@racertrust.org**

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME **Lansing Plant 2 Project# B00644 7/9/2012**
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☒ OTHER **5 day TAT**

DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

Containers & Preservatives

MERIT LAB NO.		YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	Special Instructions																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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RELINQUISHED BY: **Meagan Meckley** DATE **6-6-12** TIME **9:10**
SIGNATURE/ORGANIZATION **Meagan Meckley**
RELINQUISHED BY: **John Ma** DATE **6-6-12** TIME **9:10**
SIGNATURE/ORGANIZATION **John Ma**
RELINQUISHED BY: **John Ma** DATE **6-6-12** TIME **9:10**
SIGNATURE/ORGANIZATION **John Ma**
RELINQUISHED BY: **John Ma** DATE **6-6-12** TIME **9:10**
SIGNATURE/ORGANIZATION **John Ma**

RELINQUISHED BY: **John Ma** DATE **6-6-12** TIME **9:10**
SIGNATURE/ORGANIZATION **John Ma**
RELINQUISHED BY: **John Ma** DATE **6-6-12** TIME **9:10**
SIGNATURE/ORGANIZATION **John Ma**
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
NOTES: TEMP. ON ARRIVAL **9.1**

ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



Analytical Laboratory Report

Supplemental Report

Report ID: S52779.01(03)

Generated on 07/03/2012

Replaces report S52779.01(02) generated on 06/25/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52779.01-S52779.28

Project: Lansing Plant #2 Project# B0064479.2012

Collected Date: 06/06/2012

Submitted Date/Time: 06/07/2012 09:08

Sampled by: Megan Meckley

P.O. #: PO125047

Added 1,4-Dioxane, SIMS

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Supplemental Report

Sample Summary (28 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52779.01	SB-A5.1-MH142_1-2	Soil	06/06/2012 08:50
S52779.02	SB-A5.1-ME138_1-2	Soil	06/06/2012 09:00
S52779.03	SB-A5.1-ME138_5-6	Soil	06/06/2012 09:15
S52779.04	SB-A5.1-ME138_15-16	Soil	06/06/2012 09:40
S52779.05	SB-A5.1-ME138_15-16 MS	Soil	06/06/2012 09:40
S52779.06	SB-A5.1-ME138_15-16 MSD	Soil	06/06/2012 09:40
S52779.07	SB-A5.1-MH142_9-10	Soil	06/06/2012 09:55
S52779.08	SB-A5.1-MH142_16-17	Soil	06/06/2012 10:08
S52779.09	SB-A5.1-ME145_1-2	Soil	06/06/2012 10:25
S52779.10	SB-A5.1-ME145_5-6	Soil	06/06/2012 10:49
S52779.11	SB-A5.1-DUP84	Soil	06/06/2012 00:01
S52779.12	SB-A5.1-ME145_9-10	Soil	06/06/2012 10:55
S52779.13	SB-A5.1-ME145_16-17	Soil	06/06/2012 10:59
S52779.14	Trip Blank	Water	06/06/2012 00:01
S52779.15	SB-A5.1-MB142_0-1	Soil	06/06/2012 11:35
S52779.16	SB-A5.1-MB142_7-8	Soil	06/06/2012 11:56
S52779.17	SB-A5.1-MB142_16-17	Soil	06/06/2012 12:16
S52779.18	SB-A5.1-MB142_16-17 MS	Soil	06/06/2012 12:16
S52779.19	SB-A5.1-MB142_16-17 MSD	Soil	06/06/2012 12:16
S52779.20	SB-A5.1-MT126_1-2	Soil	06/06/2012 13:31
S52779.21	SB-A5.1-MT126_5.5-6.5	Soil	06/06/2012 14:00
S52779.22	SB-A5.1-DUP85	Soil	06/06/2012 00:01
S52779.23	SB-A5.1-MT126_16-17	Soil	06/06/2012 14:05
S52779.24	SB-A5.1-MT119_1-2	Soil	06/06/2012 14:30
S52779.25	SB-A5.1-MT126-11-15	Groundwater	06/06/2012 14:19
S52779.26	SB-A5.1-MT119_5-6	Soil	06/06/2012 15:20
S52779.27	SB-A5.1-MT119_15-19	Groundwater	06/06/2012 15:35
S52779.28	SB-A5.1-MT119_20-21	Soil	06/06/2012 15:25



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.01

Sample Tag: SB-A5.1-MH142_1-2

Collected Date/Time: 06/06/2012 08:50

Matrix: Soil

COC Reference: 69066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 10:29	CCM		
Mercury Digestion	Completed			7471A	06/12/12 09:45	JRH		
Metal Digestion	Completed			3050B	06/12/12 10:00	PER		

Inorganics

Total Solids	93	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/12/12 16:34	PER	7440-36-0	
Arsenic	1.28	mg/kg	0.10	6020	06/12/12 16:34	PER	7440-38-2	
Barium	15.6	mg/kg	1.0	6020	06/12/12 16:34	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/12/12 16:34	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/12/12 16:34	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/12/12 16:34	PER	7440-43-9	
Chromium	2.72	mg/kg	0.20	6020	06/12/12 16:34	PER	7440-47-3	
Cobalt	3.61	mg/kg	0.20	6020	06/12/12 16:34	PER	7440-48-4	
Copper	5.26	mg/kg	0.20	6020	06/12/12 16:34	PER	7440-50-8	
Lead	4.63	mg/kg	0.20	6020	06/12/12 16:34	PER	7439-92-1	
Manganese	128	mg/kg	0.20	6020	06/12/12 16:34	PER	7439-96-5	
Mercury	0.0072	mg/kg	0.0053	7471A	06/12/12 14:15	JRT	7439-97-6	
Nickel	5.60	mg/kg	0.20	6020	06/12/12 16:34	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/12/12 16:34	PER	7782-49-2	
Silver	0.18	mg/kg	0.10	6020	06/12/12 16:34	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/12/12 16:34	PER	7440-28-0	
Vanadium	3.86	mg/kg	0.20	6020	06/12/12 16:34	PER	7440-62-2	
Zinc	10.4	mg/kg	1.0	6020	06/12/12 16:34	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	98-86-2	
Anthracene	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	120-12-7	
Atrazine	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	100	8270C	06/14/12 06:12	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	56-55-3	I
Benzo(a)pyrene	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	50-32-8	I
Benzo(b)fluoranthene	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	205-99-2	I

I-Matrix interference with internal standard



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.01 (continued)

Sample Tag: SB-A5.1-MH142_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	191-24-2	I
Benzo(k)fluoranthene	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	207-08-9	I
Butyl benzyl phthalate	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	85-68-7	I
2-Chloronaphthalene	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	105-60-2	
Carbazole	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	108-60-1	
Chrysene	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	218-01-9	I
2,4-Dichlorophenol	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	91-94-1	I
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	100	8270C	06/14/12 06:12	JGH	53-70-3	I
Dibenzofuran	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	100	8270C	06/14/12 06:12	JGH	84-66-2	
Dimethyl phthalate	90	ug/kg	70	8270C	06/14/12 06:12	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	100	8270C	06/14/12 06:12	JGH	117-81-7	I
Fluoranthene	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	206-44-0	
Fluorene	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	193-39-5	I
Isophorone	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	100	8270C	06/14/12 06:12	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	100	8270C	06/14/12 06:12	JGH	117-84-0	I

I-Matrix interference with internal standard

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.01 (continued)

Sample Tag: SB-A5.1-MH142_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pentachlorophenol	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	85-01-8	
Phenol	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	108-95-2	
Pyrene	90	ug/kg	70	8270C	06/14/12 06:12	JGH	129-00-0	I
2,4,5-Trichlorophenol	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	70	8270C	06/14/12 06:12	JGH	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	98-86-2	
Anthracene	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	120-12-7	
Atrazine	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	100	8270C	06/14/12 12:49	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	105-60-2	
Carbazole	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	108-60-1	
Chrysene	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	100	8270C	06/14/12 12:49	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	100	8270C	06/14/12 12:49	JGH	84-66-2	
Dimethyl phthalate	100	ug/kg	70	8270C	06/14/12 12:49	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	100	8270C	06/14/12 12:49	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	206-44-0	

I-Matrix interference with internal standard

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.01 (continued)

Sample Tag: SB-A5.1-MH142_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
Fluorene	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	193-39-5	
Isophorone	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	100	8270C	06/14/12 12:49	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	100	8270C	06/14/12 12:49	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	85-01-8	
Phenol	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	108-95-2	
Pyrene	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	70	8270C	06/14/12 12:49	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	9,000	8260B	06/13/12 17:02	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	76-13-1	
Acetone	Not detected	ug/kg	940	5035/8260B	06/13/12 17:02	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	940	5035/8260B	06/13/12 17:02	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	940	5035/8260B	06/13/12 17:02	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	156-59-2	
Chloroform	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	67-66-3	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.01 (continued)

Sample Tag: SB-A5.1-MH142_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
1,1,1-Trichloroethane	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	940	5035/8260B	06/13/12 17:02	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	940	5035/8260B	06/13/12 17:02	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	56-23-5	
Benzene	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	10061-01-5	
Toluene	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	200	5035/8260B	06/13/12 17:02	WAT		
o-Xylene	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	95-47-6	
Styrene	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	98-82-8	
Bromoform	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	90	5035/8260B	06/13/12 17:02	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.02
Sample Tag: SB-A5.1-ME138_1-2
Collected Date/Time: 06/06/2012 09:00
Matrix: Soil
COC Reference: 69066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 10:29	CCM		
Mercury Digestion	Completed			7471A	06/12/12 09:45	JRH		
Metal Digestion	Completed			3050B	06/12/12 10:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/12/12 16:41	PER	7440-36-0	
Arsenic	2.07	mg/kg	0.10	6020	06/12/12 16:41	PER	7440-38-2	
Barium	20.6	mg/kg	1.0	6020	06/12/12 16:41	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/12/12 16:41	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/12/12 16:41	PER	7440-42-8	
Cadmium	0.17	mg/kg	0.10	6020	06/12/12 16:41	PER	7440-43-9	
Chromium	4.31	mg/kg	0.20	6020	06/12/12 16:41	PER	7440-47-3	
Cobalt	3.05	mg/kg	0.20	6020	06/12/12 16:41	PER	7440-48-4	
Copper	8.74	mg/kg	0.20	6020	06/12/12 16:41	PER	7440-50-8	
Lead	7.32	mg/kg	0.20	6020	06/12/12 16:41	PER	7439-92-1	
Manganese	256	mg/kg	0.20	6020	06/12/12 16:41	PER	7439-96-5	
Mercury	0.0106	mg/kg	0.0054	7471A	06/12/12 14:17	JRT	7439-97-6	
Nickel	6.83	mg/kg	0.20	6020	06/12/12 16:41	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/12/12 16:41	PER	7782-49-2	
Silver	0.12	mg/kg	0.10	6020	06/12/12 16:41	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/12/12 16:41	PER	7440-28-0	
Vanadium	4.75	mg/kg	0.20	6020	06/12/12 16:41	PER	7440-62-2	
Zinc	20.8	mg/kg	1.0	6020	06/12/12 16:41	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/14/12 06:47	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	100-52-7	
Benzo(a)anthracene	40	ug/kg	40	8270C	06/14/12 06:47	JGH	56-55-3	I
Benzo(a)pyrene	40	ug/kg	40	8270C	06/14/12 06:47	JGH	50-32-8	I
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	205-99-2	I

I-Matrix interference with internal standard



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.02 (continued)

Sample Tag: SB-A5.1-ME138_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	90	ug/kg	40	8270C	06/14/12 06:47	JGH	191-24-2	I
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	207-08-9	I
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	85-68-7	I
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	108-60-1	
Chrysene	40	ug/kg	40	8270C	06/14/12 06:47	JGH	218-01-9	I
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	91-94-1	I
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/14/12 06:47	JGH	53-70-3	I
Dibenzofuran	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/14/12 06:47	JGH	84-66-2	
Dimethyl phthalate	70	ug/kg	40	8270C	06/14/12 06:47	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/14/12 06:47	JGH	117-81-7	I
Fluoranthene	50	ug/kg	40	8270C	06/14/12 06:47	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	193-39-5	I
Isophorone	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/14/12 06:47	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/14/12 06:47	JGH	117-84-0	I

I-Matrix interference with internal standard

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.02 (continued)

Sample Tag: SB-A5.1-ME138_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	87-86-5	
Phenanthrene	40	ug/kg	40	8270C	06/14/12 06:47	JGH	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	108-95-2	
Pyrene	120	ug/kg	40	8270C	06/14/12 06:47	JGH	129-00-0	I
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 06:47	JGH	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/14/12 13:58	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	56-55-3	I
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	50-32-8	I
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	205-99-2	I
Benzo(ghi)perylene	70	ug/kg	40	8270C	06/14/12 13:58	JGH	191-24-2	I
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	207-08-9	I
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	85-68-7	I
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	218-01-9	I
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	91-94-1	I
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/14/12 13:58	JGH	53-70-3	I
Dibenzofuran	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/14/12 13:58	JGH	84-66-2	
Dimethyl phthalate	50	ug/kg	40	8270C	06/14/12 13:58	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/14/12 13:58	JGH	117-81-7	I
Fluoranthene	40	ug/kg	40	8270C	06/14/12 13:58	JGH	206-44-0	

I-Matrix interference with internal standard

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.02 (continued)

Sample Tag: SB-A5.1-ME138_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
Fluorene	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	193-39-5	I
Isophorone	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/14/12 13:58	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/14/12 13:58	JGH	117-84-0	I
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	108-95-2	
Pyrene	100	ug/kg	40	8270C	06/14/12 13:58	JGH	129-00-0	I
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 13:58	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/13/12 17:20	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	76-13-1	
Acetone	710	ug/kg	600	5035/8260B	06/13/12 17:20	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	600	5035/8260B	06/13/12 17:20	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	600	5035/8260B	06/13/12 17:20	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	156-59-2	

I-Matrix interference with internal standard



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.02 (continued)

Sample Tag: SB-A5.1-ME138_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Chloroform	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	600	5035/8260B	06/13/12 17:20	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	600	5035/8260B	06/13/12 17:20	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/13/12 17:20	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:20	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.03

Sample Tag: SB-A5.1-ME138_5-6

Collected Date/Time: 06/06/2012 09:15

Matrix: Soil

COC Reference: 69066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 10:29	CCM		
Mercury Digestion	Completed			7471A	06/12/12 09:45	JRH		
Metal Digestion	Completed			3050B	06/12/12 10:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/12/12 16:43	PER	7440-36-0	
Arsenic	0.89	mg/kg	0.10	6020	06/12/12 16:43	PER	7440-38-2	
Barium	53.2	mg/kg	1.0	6020	06/12/12 16:43	PER	7440-39-3	
Beryllium	0.39	mg/kg	0.20	6020	06/12/12 16:43	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/12/12 16:43	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/12/12 16:43	PER	7440-43-9	
Chromium	7.76	mg/kg	0.20	6020	06/12/12 16:43	PER	7440-47-3	
Cobalt	5.21	mg/kg	0.20	6020	06/12/12 16:43	PER	7440-48-4	
Copper	8.44	mg/kg	0.20	6020	06/12/12 16:43	PER	7440-50-8	
Lead	6.27	mg/kg	0.20	6020	06/12/12 16:43	PER	7439-92-1	
Manganese	152	mg/kg	0.20	6020	06/12/12 16:43	PER	7439-96-5	
Mercury	0.0428	mg/kg	0.0059	7471A	06/12/12 14:19	JRT	7439-97-6	
Nickel	9.89	mg/kg	0.20	6020	06/12/12 16:43	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/12/12 16:43	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/12/12 16:43	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/12/12 16:43	PER	7440-28-0	
Vanadium	14.6	mg/kg	0.20	6020	06/12/12 16:43	PER	7440-62-2	
Zinc	17.5	mg/kg	1.0	6020	06/12/12 16:43	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/13/12 21:58	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.03 (continued)

Sample Tag: SB-A5.1-ME138_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/13/12 21:58	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/13/12 21:58	JGH	84-66-2	
Dimethyl phthalate	70	ug/kg	40	8270C	06/13/12 21:58	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/13/12 21:58	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/13/12 21:58	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/13/12 21:58	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.03 (continued)

Sample Tag: SB-A5.1-ME138_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/13/12 21:58	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/13/12 17:38	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	76-13-1	
Acetone	Not detected	ug/kg	700	5035/8260B	06/13/12 17:38	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	700	5035/8260B	06/13/12 17:38	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	700	5035/8260B	06/13/12 17:38	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	700	5035/8260B	06/13/12 17:38	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	700	5035/8260B	06/13/12 17:38	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/13/12 17:38	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.03 (continued)

Sample Tag: SB-A5.1-ME138_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 17:38	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.04

Sample Tag: SB-A5.1-ME138_15-16

Collected Date/Time: 06/06/2012 09:40

Matrix: Soil

COC Reference: 69066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 10:29	CCM		
Mercury Digestion	Completed			7471A	06/12/12 09:45	JRH		
Metal Digestion	Completed			3050B	06/12/12 10:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/12/12 16:45	PER	7440-36-0	
Arsenic	2.90	mg/kg	0.10	6020	06/12/12 16:45	PER	7440-38-2	
Barium	26.9	mg/kg	1.0	6020	06/12/12 16:45	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/12/12 16:45	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/12/12 16:45	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	06/12/12 16:45	PER	7440-43-9	
Chromium	4.81	mg/kg	0.20	6020	06/12/12 16:45	PER	7440-47-3	
Cobalt	3.08	mg/kg	0.20	6020	06/12/12 16:45	PER	7440-48-4	
Copper	7.37	mg/kg	0.20	6020	06/12/12 16:45	PER	7440-50-8	
Lead	3.65	mg/kg	0.20	6020	06/12/12 16:45	PER	7439-92-1	
Manganese	218	mg/kg	0.20	6020	06/12/12 16:45	PER	7439-96-5	
Mercury	0.0078	mg/kg	0.0055	7471A	06/12/12 14:35	JRT	7439-97-6	
Nickel	9.43	mg/kg	0.20	6020	06/12/12 16:45	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/12/12 16:45	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/12/12 16:45	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/12/12 16:45	PER	7440-28-0	
Vanadium	6.87	mg/kg	0.20	6020	06/12/12 16:45	PER	7440-62-2	
Zinc	15.8	mg/kg	1.0	6020	06/12/12 16:45	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/13/12 19:02	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.04 (continued)

Sample Tag: SB-A5.1-ME138_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/13/12 19:02	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/13/12 19:02	JGH	84-66-2	
Dimethyl phthalate	40	ug/kg	40	8270C	06/13/12 19:02	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/13/12 19:02	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/13/12 19:02	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/13/12 19:02	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.04 (continued)

Sample Tag: SB-A5.1-ME138_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/13/12 19:02	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/13/12 17:56	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	76-13-1	
Acetone	Not detected	ug/kg	610	5035/8260B	06/13/12 17:56	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	610	5035/8260B	06/13/12 17:56	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	610	5035/8260B	06/13/12 17:56	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	610	5035/8260B	06/13/12 17:56	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	610	5035/8260B	06/13/12 17:56	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/13/12 17:56	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.04 (continued)

Sample Tag: SB-A5.1-ME138_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 17:56	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.05

Sample Tag: SB-A5.1-ME138_15-16 MS

Collected Date/Time: 06/06/2012 09:40

Matrix: Soil

COC Reference: 69066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 10:29	CCM		
Mercury Digestion	Completed			7471A	06/12/12 09:45	JRH		
Metal Digestion	Completed			3050B	06/12/12 10:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	23.6	mg/kg	0.20	6020	06/12/12 16:55	PER	7440-36-0	
Arsenic	25.9	mg/kg	0.10	6020	06/12/12 16:55	PER	7440-38-2	
Barium	48.1	mg/kg	1.0	6020	06/12/12 16:55	PER	7440-39-3	
Beryllium	20.3	mg/kg	0.20	6020	06/12/12 16:55	PER	7440-41-7	
Boron	18.4	mg/kg	4.1	6020	06/12/12 16:55	PER	7440-42-8	
Cadmium	21.4	mg/kg	0.10	6020	06/12/12 16:55	PER	7440-43-9	
Chromium	26.2	mg/kg	0.20	6020	06/12/12 16:55	PER	7440-47-3	
Cobalt	22.4	mg/kg	0.20	6020	06/12/12 16:55	PER	7440-48-4	
Copper	26.1	mg/kg	0.20	6020	06/12/12 16:55	PER	7440-50-8	
Lead	22.7	mg/kg	0.20	6020	06/12/12 16:55	PER	7439-92-1	
Manganese	237	mg/kg	0.20	6020	06/12/12 16:55	PER	7439-96-5	
Mercury	0.1281	mg/kg	0.0056	7471A	06/12/12 14:37	JRT	7439-97-6	
Nickel	28.6	mg/kg	0.20	6020	06/12/12 16:55	PER	7440-02-0	
Selenium	21.9	mg/kg	0.20	6020	06/12/12 16:55	PER	7782-49-2	
Silver	19.8	mg/kg	0.10	6020	06/12/12 16:55	PER	7440-22-4	
Thallium	19.5	mg/kg	0.20	6020	06/12/12 16:55	PER	7440-28-0	
Vanadium	28.9	mg/kg	0.20	6020	06/12/12 16:55	PER	7440-62-2	
Zinc	35.0	mg/kg	1.0	6020	06/12/12 16:55	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,450	ug/kg	40	8270C	06/13/12 19:31	JGH	83-32-9	1
Acenaphthylene	1,580	ug/kg	40	8270C	06/13/12 19:31	JGH	208-96-8	1
Acetophenone	1,460	ug/kg	40	8270C	06/13/12 19:31	JGH	98-86-2	1
Anthracene	1,370	ug/kg	40	8270C	06/13/12 19:31	JGH	120-12-7	1
Atrazine	1,590	ug/kg	40	8270C	06/13/12 19:31	JGH	1912-24-9	1
1,1'-Biphenyl	1,430	ug/kg	40	8270C	06/13/12 19:31	JGH	92-52-4	1
4-Bromophenyl phenyl ether	1,490	ug/kg	40	8270C	06/13/12 19:31	JGH	101-55-3	1
di-n-Butyl phthalate	1,300	ug/kg	70	8270C	06/13/12 19:31	JGH	84-74-2	1
Benzaldehyde	1,250	ug/kg	40	8270C	06/13/12 19:31	JGH	100-52-7	1
Benzo(a)anthracene	1,560	ug/kg	40	8270C	06/13/12 19:31	JGH	56-55-3	1
Benzo(a)pyrene	1,390	ug/kg	40	8270C	06/13/12 19:31	JGH	50-32-8	1
Benzo(b)fluoranthene	1,430	ug/kg	40	8270C	06/13/12 19:31	JGH	205-99-2	1

1-Spiked at 1.67mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.05 (continued)

Sample Tag: SB-A5.1-ME138_15-16 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	1,380	ug/kg	40	8270C	06/13/12 19:31	JGH	191-24-2	1
Benzo(k)fluoranthene	1,480	ug/kg	40	8270C	06/13/12 19:31	JGH	207-08-9	1
Butyl benzyl phthalate	1,390	ug/kg	40	8270C	06/13/12 19:31	JGH	85-68-7	1
2-Chloronaphthalene	1,450	ug/kg	40	8270C	06/13/12 19:31	JGH	91-58-7	1
2-Chlorophenol	1,360	ug/kg	40	8270C	06/13/12 19:31	JGH	95-57-8	1
4-Chloro-3-methylphenol	1,460	ug/kg	40	8270C	06/13/12 19:31	JGH	59-50-7	1
4-Chloroaniline	600	ug/kg	40	8270C	06/13/12 19:31	JGH	106-47-8	1
4-Chlorophenyl phenyl ether	2,040	ug/kg	40	8270C	06/13/12 19:31	JGH	7005-72-3	1
Caprolactam	1,450	ug/kg	40	8270C	06/13/12 19:31	JGH	105-60-2	1
Carbazole	1,510	ug/kg	40	8270C	06/13/12 19:31	JGH	86-74-8	1
bis(2-Chloroethoxy)methane	1,220	ug/kg	40	8270C	06/13/12 19:31	JGH	111-91-1	1
bis(2-Chloroethyl)ether	1,240	ug/kg	40	8270C	06/13/12 19:31	JGH	111-44-4	1
bis(2-Chloroisopropyl)ether	1,160	ug/kg	40	8270C	06/13/12 19:31	JGH	108-60-1	1
Chrysene	1,460	ug/kg	40	8270C	06/13/12 19:31	JGH	218-01-9	1
2,4-Dichlorophenol	1,450	ug/kg	40	8270C	06/13/12 19:31	JGH	120-83-2	1
2,4-Dimethylphenol	1,390	ug/kg	40	8270C	06/13/12 19:31	JGH	105-67-9	1
2,4-Dinitrophenol	690	ug/kg	40	8270C	06/13/12 19:31	JGH	51-28-5	1
2,4-Dinitrotoluene	1,450	ug/kg	40	8270C	06/13/12 19:31	JGH	121-14-2	1
2,6-Dinitrotoluene	1,710	ug/kg	40	8270C	06/13/12 19:31	JGH	606-20-2	1
3,3'-Dichlorobenzidine	1,550	ug/kg	40	8270C	06/13/12 19:31	JGH	91-94-1	1
4,6-Dinitro-2-methylphenol	1,050	ug/kg	40	8270C	06/13/12 19:31	JGH	534-52-1	1
Dibenzo(ah)anthracene	1,670	ug/kg	70	8270C	06/13/12 19:31	JGH	53-70-3	1
Dibenzofuran	1,500	ug/kg	40	8270C	06/13/12 19:31	JGH	132-64-9	1
Diethyl phthalate	1,510	ug/kg	70	8270C	06/13/12 19:31	JGH	84-66-2	1
Dimethyl phthalate	1,590	ug/kg	40	8270C	06/13/12 19:31	JGH	131-11-3	B1
bis(2-Ethylhexyl)phthalate	1,470	ug/kg	70	8270C	06/13/12 19:31	JGH	117-81-7	1
Fluoranthene	1,460	ug/kg	40	8270C	06/13/12 19:31	JGH	206-44-0	1
Fluorene	1,900	ug/kg	40	8270C	06/13/12 19:31	JGH	86-73-7	1
Hexachlorobenzene	1,370	ug/kg	40	8270C	06/13/12 19:31	JGH	118-74-1	1
Hexachlorobutadiene	1,230	ug/kg	40	8270C	06/13/12 19:31	JGH	87-68-3	1
Hexachlorocyclopentadiene	640	ug/kg	40	8270C	06/13/12 19:31	JGH	77-47-4	1
Hexachloroethane	1,110	ug/kg	40	8270C	06/13/12 19:31	JGH	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,500	ug/kg	40	8270C	06/13/12 19:31	JGH	193-39-5	1
Isophorone	1,320	ug/kg	40	8270C	06/13/12 19:31	JGH	78-59-1	1
2-Methylnaphthalene	1,410	ug/kg	40	8270C	06/13/12 19:31	JGH	91-57-6	1
2-Methylphenol	1,470	ug/kg	40	8270C	06/13/12 19:31	JGH	95-48-7	1
3-, 4-Methylphenol	1,790	ug/kg	70	8270C	06/13/12 19:31	JGH	3/4-Cresol	1
2-Nitroaniline	1,470	ug/kg	40	8270C	06/13/12 19:31	JGH	88-74-4	1
2-Nitrophenol	1,300	ug/kg	40	8270C	06/13/12 19:31	JGH	88-75-5	1
3-Nitroaniline	1,300	ug/kg	40	8270C	06/13/12 19:31	JGH	99-09-2	1
4-Nitroaniline	1,530	ug/kg	40	8270C	06/13/12 19:31	JGH	100-01-6	1
4-Nitrophenol	1,310	ug/kg	40	8270C	06/13/12 19:31	JGH	100-02-7	1
N-Nitrosodi-n-propylamine	1,370	ug/kg	40	8270C	06/13/12 19:31	JGH	621-64-7	1
N-Nitrosodiphenylamine	1,090	ug/kg	40	8270C	06/13/12 19:31	JGH	86-30-6	1
Naphthalene	1,340	ug/kg	40	8270C	06/13/12 19:31	JGH	91-20-3	1
Nitrobenzene	1,250	ug/kg	40	8270C	06/13/12 19:31	JGH	98-95-3	1
di-n-Octyl phthalate	1,710	ug/kg	70	8270C	06/13/12 19:31	JGH	117-84-0	1

1-Spiked at 1.67mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.05 (continued)
Sample Tag: SB-A5.1-ME138_15-16 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pentachlorophenol	1,040	ug/kg	40	8270C	06/13/12 19:31	JGH	87-86-5	1
Phenanthrene	1,420	ug/kg	40	8270C	06/13/12 19:31	JGH	85-01-8	1
Phenol	1,440	ug/kg	40	8270C	06/13/12 19:31	JGH	108-95-2	1
Pyrene	1,470	ug/kg	40	8270C	06/13/12 19:31	JGH	129-00-0	1
2,4,5-Trichlorophenol	1,500	ug/kg	40	8270C	06/13/12 19:31	JGH	95-95-4	1
2,4,6-Trichlorophenol	1,460	ug/kg	40	8270C	06/13/12 19:31	JGH	88-06-2	1
Organics - Volatiles								
1,4-Dioxane	19,000	ug/kg	6,000	8260B	06/13/12 20:57	JGH	123-91-1	2
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	2,580	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	76-13-1	3
Acetone	2,800	ug/kg	610	5035/8260B	06/13/12 20:57	JGH	67-64-1	3
Carbon disulfide	2,650	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	75-15-0	3
Methyl Acetate	2,090	ug/kg	610	5035/8260B	06/13/12 20:57	JGH	79-20-9	3
tert-Methyl butyl ether (MTBE)	2,320	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	1634-04-4	3
2-Butanone (MEK)	2,330	ug/kg	610	5035/8260B	06/13/12 20:57	JGH	78-93-3	3
Dichlorodifluoromethane	2,670	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	75-71-8	3
Chloromethane	2,400	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	74-87-3	3
Vinyl chloride	2,720	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	75-01-4	3
Bromomethane	2,250	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	74-83-9	3
Chloroethane	2,160	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	75-00-3	3
Trichlorofluoromethane	2,420	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	75-69-4	3
1,1-Dichloroethene	2,300	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	75-35-4	3
Methylene chloride	2,380	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	75-09-2	3
trans-1,2-Dichloroethene	2,440	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	156-60-5	3
1,1-Dichloroethane	2,390	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	75-34-3	3
cis-1,2-Dichloroethene	2,410	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	156-59-2	3
Chloroform	2,430	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	67-66-3	3
1,1,1-Trichloroethane	2,560	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	71-55-6	3
Cyclohexane	1,890	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	110-82-7	3
4-Methyl-2-pentanone (MIBK)	2,310	ug/kg	610	5035/8260B	06/13/12 20:57	JGH	108-10-1	3
2-Hexanone	2,700	ug/kg	610	5035/8260B	06/13/12 20:57	JGH	591-78-6	3
Carbon tetrachloride	2,890	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	56-23-5	3
Benzene	2,670	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	71-43-2	3
1,2-Dichloroethane	2,550	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	107-06-2	3
Trichloroethene	2,710	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	79-01-6	3
1,2-Dichloropropane	2,650	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	78-87-5	3
Bromodichloromethane	2,680	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	75-27-4	3
Methyl cyclohexane	2,650	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	108-87-2	3
cis-1,3-Dichloropropene	2,690	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	10061-01-5	3
Toluene	2,650	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	108-88-3	3
trans-1,3-Dichloropropene	2,760	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	10061-02-6	3
1,1,2-Trichloroethane	2,580	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	79-00-5	3
Tetrachloroethene	2,810	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	127-18-4	3
Dibromochloromethane	2,580	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	124-48-1	3

1-Spiked at 1.67mg/kg

2-Spiked at 20mg/kg

3-Spiked at 2.5mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.05 (continued)
Sample Tag: SB-A5.1-ME138_15-16 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
1,2-Dibromoethane	2,690	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	106-93-4	1
Chlorobenzene	2,690	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	108-90-7	1
1,1,2,2-Tetrachloroethane	2,460	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	79-34-5	1
Ethylbenzene	2,730	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	100-41-4	1
p,m-Xylene	5,600	ug/kg	100	5035/8260B	06/13/12 20:57	JGH		1
o-Xylene	2,780	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	95-47-6	1
Styrene	2,780	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	100-42-5	1
Isopropylbenzene	2,740	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	98-82-8	1
Bromoform	2,620	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	75-25-2	1
1,3-Dichlorobenzene	2,710	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	541-73-1	1
1,4-Dichlorobenzene	2,560	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	106-46-7	1
1,2-Dichlorobenzene	2,620	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	95-50-1	1
1,2-Dibromo-3-chloropropane	2,500	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	96-12-8	1
1,2,4-Trichlorobenzene	2,650	ug/kg	60	5035/8260B	06/13/12 20:57	JGH	120-82-1	1

1-Spiked at 2.5mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.06

Sample Tag: SB-A5.1-ME138_15-16 MSD

Collected Date/Time: 06/06/2012 09:40

Matrix: Soil

COC Reference: 69066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 10:29	CCM		
Mercury Digestion	Completed			7471A	06/12/12 09:45	JRH		
Metal Digestion	Completed			3050B	06/12/12 10:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	24.0	mg/kg	0.20	6020	06/12/12 16:57	PER	7440-36-0	
Arsenic	25.1	mg/kg	0.10	6020	06/12/12 16:57	PER	7440-38-2	
Barium	48.0	mg/kg	1.0	6020	06/12/12 16:57	PER	7440-39-3	
Beryllium	20.8	mg/kg	0.20	6020	06/12/12 16:57	PER	7440-41-7	
Boron	18.2	mg/kg	4.1	6020	06/12/12 16:57	PER	7440-42-8	
Cadmium	22.0	mg/kg	0.10	6020	06/12/12 16:57	PER	7440-43-9	
Chromium	26.7	mg/kg	0.20	6020	06/12/12 16:57	PER	7440-47-3	
Cobalt	22.9	mg/kg	0.20	6020	06/12/12 16:57	PER	7440-48-4	
Copper	26.5	mg/kg	0.20	6020	06/12/12 16:57	PER	7440-50-8	
Lead	22.4	mg/kg	0.20	6020	06/12/12 16:57	PER	7439-92-1	
Manganese	243	mg/kg	0.20	6020	06/12/12 16:57	PER	7439-96-5	
Mercury	0.1297	mg/kg	0.0056	7471A	06/12/12 14:39	JRT	7439-97-6	
Nickel	28.8	mg/kg	0.20	6020	06/12/12 16:57	PER	7440-02-0	
Selenium	21.2	mg/kg	0.20	6020	06/12/12 16:57	PER	7782-49-2	
Silver	20.1	mg/kg	0.10	6020	06/12/12 16:57	PER	7440-22-4	
Thallium	19.3	mg/kg	0.20	6020	06/12/12 16:57	PER	7440-28-0	
Vanadium	29.6	mg/kg	0.20	6020	06/12/12 16:57	PER	7440-62-2	
Zinc	35.4	mg/kg	1.0	6020	06/12/12 16:57	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,660	ug/kg	40	8270C	06/13/12 20:00	JGH	83-32-9	1
Acenaphthylene	1,810	ug/kg	40	8270C	06/13/12 20:00	JGH	208-96-8	1
Acetophenone	1,580	ug/kg	40	8270C	06/13/12 20:00	JGH	98-86-2	1
Anthracene	1,590	ug/kg	40	8270C	06/13/12 20:00	JGH	120-12-7	1
Atrazine	1,820	ug/kg	40	8270C	06/13/12 20:00	JGH	1912-24-9	1
1,1'-Biphenyl	1,660	ug/kg	40	8270C	06/13/12 20:00	JGH	92-52-4	1
4-Bromophenyl phenyl ether	1,700	ug/kg	40	8270C	06/13/12 20:00	JGH	101-55-3	1
di-n-Butyl phthalate	1,500	ug/kg	70	8270C	06/13/12 20:00	JGH	84-74-2	1
Benzaldehyde	1,370	ug/kg	40	8270C	06/13/12 20:00	JGH	100-52-7	1
Benzo(a)anthracene	1,850	ug/kg	40	8270C	06/13/12 20:00	JGH	56-55-3	1
Benzo(a)pyrene	1,630	ug/kg	40	8270C	06/13/12 20:00	JGH	50-32-8	1
Benzo(b)fluoranthene	1,690	ug/kg	40	8270C	06/13/12 20:00	JGH	205-99-2	1

1-Spiked at 1.67mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.06 (continued)

Sample Tag: SB-A5.1-ME138_15-16 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	1,630	ug/kg	40	8270C	06/13/12 20:00	JGH	191-24-2	1
Benzo(k)fluoranthene	1,740	ug/kg	40	8270C	06/13/12 20:00	JGH	207-08-9	1
Butyl benzyl phthalate	1,640	ug/kg	40	8270C	06/13/12 20:00	JGH	85-68-7	1
2-Chloronaphthalene	1,650	ug/kg	40	8270C	06/13/12 20:00	JGH	91-58-7	1
2-Chlorophenol	1,470	ug/kg	40	8270C	06/13/12 20:00	JGH	95-57-8	1
4-Chloro-3-methylphenol	1,640	ug/kg	40	8270C	06/13/12 20:00	JGH	59-50-7	1
4-Chloroaniline	660	ug/kg	40	8270C	06/13/12 20:00	JGH	106-47-8	1
4-Chlorophenyl phenyl ether	2,360	ug/kg	40	8270C	06/13/12 20:00	JGH	7005-72-3	1
Caprolactam	1,640	ug/kg	40	8270C	06/13/12 20:00	JGH	105-60-2	1
Carbazole	1,710	ug/kg	40	8270C	06/13/12 20:00	JGH	86-74-8	1
bis(2-Chloroethoxy)methane	1,350	ug/kg	40	8270C	06/13/12 20:00	JGH	111-91-1	1
bis(2-Chloroethyl)ether	1,310	ug/kg	40	8270C	06/13/12 20:00	JGH	111-44-4	1
bis(2-Chloroisopropyl)ether	1,250	ug/kg	40	8270C	06/13/12 20:00	JGH	108-60-1	1
Chrysene	1,710	ug/kg	40	8270C	06/13/12 20:00	JGH	218-01-9	1
2,4-Dichlorophenol	1,600	ug/kg	40	8270C	06/13/12 20:00	JGH	120-83-2	1
2,4-Dimethylphenol	1,500	ug/kg	40	8270C	06/13/12 20:00	JGH	105-67-9	1
2,4-Dinitrophenol	740	ug/kg	40	8270C	06/13/12 20:00	JGH	51-28-5	1
2,4-Dinitrotoluene	1,670	ug/kg	40	8270C	06/13/12 20:00	JGH	121-14-2	1
2,6-Dinitrotoluene	1,950	ug/kg	40	8270C	06/13/12 20:00	JGH	606-20-2	1
3,3'-Dichlorobenzidine	1,800	ug/kg	40	8270C	06/13/12 20:00	JGH	91-94-1	1
4,6-Dinitro-2-methylphenol	1,220	ug/kg	40	8270C	06/13/12 20:00	JGH	534-52-1	1
Dibenzo(ah)anthracene	1,960	ug/kg	70	8270C	06/13/12 20:00	JGH	53-70-3	1
Dibenzofuran	1,710	ug/kg	40	8270C	06/13/12 20:00	JGH	132-64-9	1
Diethyl phthalate	1,740	ug/kg	70	8270C	06/13/12 20:00	JGH	84-66-2	1
Dimethyl phthalate	1,780	ug/kg	40	8270C	06/13/12 20:00	JGH	131-11-3	B1
bis(2-Ethylhexyl)phthalate	1,740	ug/kg	70	8270C	06/13/12 20:00	JGH	117-81-7	1
Fluoranthene	1,680	ug/kg	40	8270C	06/13/12 20:00	JGH	206-44-0	1
Fluorene	2,190	ug/kg	40	8270C	06/13/12 20:00	JGH	86-73-7	1
Hexachlorobenzene	1,600	ug/kg	40	8270C	06/13/12 20:00	JGH	118-74-1	1
Hexachlorobutadiene	1,340	ug/kg	40	8270C	06/13/12 20:00	JGH	87-68-3	1
Hexachlorocyclopentadiene	740	ug/kg	40	8270C	06/13/12 20:00	JGH	77-47-4	1
Hexachloroethane	1,210	ug/kg	40	8270C	06/13/12 20:00	JGH	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,770	ug/kg	40	8270C	06/13/12 20:00	JGH	193-39-5	1
Isophorone	1,460	ug/kg	40	8270C	06/13/12 20:00	JGH	78-59-1	1
2-Methylnaphthalene	1,570	ug/kg	40	8270C	06/13/12 20:00	JGH	91-57-6	1
2-Methylphenol	1,580	ug/kg	40	8270C	06/13/12 20:00	JGH	95-48-7	1
3-, 4-Methylphenol	1,940	ug/kg	70	8270C	06/13/12 20:00	JGH	3/4-Cresol	1
2-Nitroaniline	1,650	ug/kg	40	8270C	06/13/12 20:00	JGH	88-74-4	1
2-Nitrophenol	1,420	ug/kg	40	8270C	06/13/12 20:00	JGH	88-75-5	1
3-Nitroaniline	1,460	ug/kg	40	8270C	06/13/12 20:00	JGH	99-09-2	1
4-Nitroaniline	1,740	ug/kg	40	8270C	06/13/12 20:00	JGH	100-01-6	1
4-Nitrophenol	1,470	ug/kg	40	8270C	06/13/12 20:00	JGH	100-02-7	1
N-Nitrosodi-n-propylamine	1,530	ug/kg	40	8270C	06/13/12 20:00	JGH	621-64-7	1
N-Nitrosodiphenylamine	1,240	ug/kg	40	8270C	06/13/12 20:00	JGH	86-30-6	1
Naphthalene	1,450	ug/kg	40	8270C	06/13/12 20:00	JGH	91-20-3	1
Nitrobenzene	1,330	ug/kg	40	8270C	06/13/12 20:00	JGH	98-95-3	1
di-n-Octyl phthalate	2,010	ug/kg	70	8270C	06/13/12 20:00	JGH	117-84-0	1

1-Spiked at 1.67mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.06 (continued)
Sample Tag: SB-A5.1-ME138_15-16 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pentachlorophenol	1,210	ug/kg	40	8270C	06/13/12 20:00	JGH	87-86-5	1
Phenanthrene	1,620	ug/kg	40	8270C	06/13/12 20:00	JGH	85-01-8	1
Phenol	1,560	ug/kg	40	8270C	06/13/12 20:00	JGH	108-95-2	1
Pyrene	1,730	ug/kg	40	8270C	06/13/12 20:00	JGH	129-00-0	1
2,4,5-Trichlorophenol	1,710	ug/kg	40	8270C	06/13/12 20:00	JGH	95-95-4	1
2,4,6-Trichlorophenol	1,650	ug/kg	40	8270C	06/13/12 20:00	JGH	88-06-2	1
Organics - Volatiles								
1,4-Dioxane	21,000	ug/kg	6,000	8260B	06/13/12 21:15	JGH	123-91-1	2
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	3,090	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	76-13-1	3
Acetone	2,600	ug/kg	630	5035/8260B	06/13/12 21:15	JGH	67-64-1	3
Carbon disulfide	3,100	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	75-15-0	3
Methyl Acetate	2,460	ug/kg	630	5035/8260B	06/13/12 21:15	JGH	79-20-9	3
tert-Methyl butyl ether (MTBE)	2,650	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	1634-04-4	3
2-Butanone (MEK)	2,320	ug/kg	630	5035/8260B	06/13/12 21:15	JGH	78-93-3	3
Dichlorodifluoromethane	3,060	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	75-71-8	3
Chloromethane	2,770	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	74-87-3	3
Vinyl chloride	3,120	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	75-01-4	3
Bromomethane	2,530	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	74-83-9	3
Chloroethane	2,530	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	75-00-3	3
Trichlorofluoromethane	2,870	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	75-69-4	3
1,1-Dichloroethene	2,680	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	75-35-4	3
Methylene chloride	2,740	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	75-09-2	3
trans-1,2-Dichloroethene	2,830	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	156-60-5	3
1,1-Dichloroethane	2,760	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	75-34-3	3
cis-1,2-Dichloroethene	2,780	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	156-59-2	3
Chloroform	2,800	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	67-66-3	3
1,1,1-Trichloroethane	2,990	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	71-55-6	3
Cyclohexane	2,230	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	110-82-7	3
4-Methyl-2-pentanone (MIBK)	2,640	ug/kg	630	5035/8260B	06/13/12 21:15	JGH	108-10-1	3
2-Hexanone	2,770	ug/kg	630	5035/8260B	06/13/12 21:15	JGH	591-78-6	3
Carbon tetrachloride	3,390	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	56-23-5	3
Benzene	3,070	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	71-43-2	3
1,2-Dichloroethane	2,950	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	107-06-2	3
Trichloroethene	3,120	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	79-01-6	3
1,2-Dichloropropane	3,010	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	78-87-5	3
Bromodichloromethane	3,140	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	75-27-4	3
Methyl cyclohexane	3,140	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	108-87-2	3
cis-1,3-Dichloropropene	3,060	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	10061-01-5	3
Toluene	3,030	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	108-88-3	3
trans-1,3-Dichloropropene	3,150	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	10061-02-6	3
1,1,2-Trichloroethane	2,880	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	79-00-5	3
Tetrachloroethene	3,270	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	127-18-4	3
Dibromochloromethane	3,070	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	124-48-1	3

1-Spiked at 1.67mg/kg
2-Spiked at 20mg/kg
3-Spiked at 2.5mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.06 (continued)
Sample Tag: SB-A5.1-ME138_15-16 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
1,2-Dibromoethane	3,150	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	106-93-4	1
Chlorobenzene	3,160	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	108-90-7	1
1,1,2,2-Tetrachloroethane	2,940	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	79-34-5	1
Ethylbenzene	3,220	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	100-41-4	1
p,m-Xylene	6,600	ug/kg	100	5035/8260B	06/13/12 21:15	JGH		1
o-Xylene	3,260	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	95-47-6	1
Styrene	3,270	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	100-42-5	1
Isopropylbenzene	3,290	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	98-82-8	1
Bromoform	3,150	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	75-25-2	1
1,3-Dichlorobenzene	3,160	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	541-73-1	1
1,4-Dichlorobenzene	2,960	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	106-46-7	1
1,2-Dichlorobenzene	3,070	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	95-50-1	1
1,2-Dibromo-3-chloropropane	2,870	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	96-12-8	1
1,2,4-Trichlorobenzene	3,270	ug/kg	60	5035/8260B	06/13/12 21:15	JGH	120-82-1	1

1-Spiked at 2.5mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.07

Sample Tag: SB-A5.1-MH142_9-10

Collected Date/Time: 06/06/2012 09:55

Matrix: Soil

COC Reference: 69066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 10:29	CCM		
Mercury Digestion	Completed			7471A	06/12/12 09:45	JRH		
Metal Digestion	Completed			3050B	06/12/12 10:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/12/12 17:00	PER	7440-36-0	
Arsenic	1.36	mg/kg	0.10	6020	06/12/12 17:00	PER	7440-38-2	
Barium	27.9	mg/kg	1.0	6020	06/12/12 17:00	PER	7440-39-3	
Beryllium	0.20	mg/kg	0.20	6020	06/12/12 17:00	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/12/12 17:00	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/12/12 17:00	PER	7440-43-9	
Chromium	6.46	mg/kg	0.20	6020	06/12/12 17:00	PER	7440-47-3	
Cobalt	4.23	mg/kg	0.20	6020	06/12/12 17:00	PER	7440-48-4	
Copper	11.1	mg/kg	0.20	6020	06/12/12 17:00	PER	7440-50-8	
Lead	4.78	mg/kg	0.20	6020	06/12/12 17:00	PER	7439-92-1	
Manganese	277	mg/kg	0.20	6020	06/12/12 17:00	PER	7439-96-5	
Mercury	0.0099	mg/kg	0.0056	7471A	06/12/12 14:21	JRT	7439-97-6	
Nickel	11.2	mg/kg	0.20	6020	06/12/12 17:00	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/12/12 17:00	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/12/12 17:00	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/12/12 17:00	PER	7440-28-0	
Vanadium	8.96	mg/kg	0.20	6020	06/12/12 17:00	PER	7440-62-2	
Zinc	20.7	mg/kg	1.0	6020	06/12/12 17:00	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/13/12 22:27	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.07 (continued)

Sample Tag: SB-A5.1-MH142_9-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/13/12 22:27	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/13/12 22:27	JGH	84-66-2	
Dimethyl phthalate	60	ug/kg	40	8270C	06/13/12 22:27	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/13/12 22:27	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/13/12 22:27	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/13/12 22:27	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.07 (continued)

Sample Tag: SB-A5.1-MH142_9-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/13/12 22:27	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/13/12 18:14	JGH	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	76-13-1	
Acetone	Not detected	ug/kg	650	5035/8260B	06/13/12 18:14	JGH	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	75-15-0	
Methyl Acetate	Not detected	ug/kg	650	5035/8260B	06/13/12 18:14	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	650	5035/8260B	06/13/12 18:14	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	650	5035/8260B	06/13/12 18:14	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	650	5035/8260B	06/13/12 18:14	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/13/12 18:14	JGH		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.07 (continued)

Sample Tag: SB-A5.1-MH142_9-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:14	JGH	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.08

Sample Tag: SB-A5.1-MH142_16-17

Collected Date/Time: 06/06/2012 10:08

Matrix: Soil

COC Reference: 69066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 10:29	CCM		
Mercury Digestion	Completed			7471A	06/12/12 09:45	JRH		
Metal Digestion	Completed			3050B	06/12/12 10:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/12/12 17:02	PER	7440-36-0	
Arsenic	3.06	mg/kg	0.10	6020	06/12/12 17:02	PER	7440-38-2	
Barium	40.6	mg/kg	1.0	6020	06/12/12 17:02	PER	7440-39-3	
Beryllium	0.21	mg/kg	0.20	6020	06/12/12 17:02	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/12/12 17:02	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/12/12 17:02	PER	7440-43-9	
Chromium	6.75	mg/kg	0.20	6020	06/12/12 17:02	PER	7440-47-3	
Cobalt	4.19	mg/kg	0.20	6020	06/12/12 17:02	PER	7440-48-4	
Copper	10.6	mg/kg	0.20	6020	06/12/12 17:02	PER	7440-50-8	
Lead	4.93	mg/kg	0.20	6020	06/12/12 17:02	PER	7439-92-1	
Manganese	254	mg/kg	0.20	6020	06/12/12 17:02	PER	7439-96-5	
Mercury	0.0089	mg/kg	0.0056	7471A	06/12/12 14:23	JRT	7439-97-6	
Nickel	12.3	mg/kg	0.20	6020	06/12/12 17:02	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/12/12 17:02	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/12/12 17:02	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/12/12 17:02	PER	7440-28-0	
Vanadium	9.07	mg/kg	0.20	6020	06/12/12 17:02	PER	7440-62-2	
Zinc	17.8	mg/kg	1.0	6020	06/12/12 17:02	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/13/12 22:56	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.08 (continued)

Sample Tag: SB-A5.1-MH142_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/13/12 22:56	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/13/12 22:56	JGH	84-66-2	
Dimethyl phthalate	40	ug/kg	40	8270C	06/13/12 22:56	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/13/12 22:56	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/13/12 22:56	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/13/12 22:56	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.08 (continued)

Sample Tag: SB-A5.1-MH142_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/13/12 22:56	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/13/12 18:33	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	76-13-1	
Acetone	Not detected	ug/kg	730	5035/8260B	06/13/12 18:33	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	730	5035/8260B	06/13/12 18:33	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	730	5035/8260B	06/13/12 18:33	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	730	5035/8260B	06/13/12 18:33	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	730	5035/8260B	06/13/12 18:33	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/13/12 18:33	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.08 (continued)

Sample Tag: SB-A5.1-MH142_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 18:33	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.09
Sample Tag: SB-A5.1-ME145_1-2
Collected Date/Time: 06/06/2012 10:25
Matrix: Soil
COC Reference: 69066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 10:29	CCM		
Mercury Digestion	Completed			7471A	06/12/12 09:45	JRH		
Metal Digestion	Completed			3050B	06/12/12 10:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/12/12 17:04	PER	7440-36-0	
Arsenic	1.05	mg/kg	0.10	6020	06/12/12 17:04	PER	7440-38-2	
Barium	20.5	mg/kg	1.0	6020	06/12/12 17:04	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/12/12 17:04	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/12/12 17:04	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	06/12/12 17:04	PER	7440-43-9	
Chromium	2.84	mg/kg	0.20	6020	06/12/12 17:04	PER	7440-47-3	
Cobalt	2.30	mg/kg	0.20	6020	06/12/12 17:04	PER	7440-48-4	
Copper	5.52	mg/kg	0.20	6020	06/12/12 17:04	PER	7440-50-8	
Lead	6.15	mg/kg	0.20	6020	06/12/12 17:04	PER	7439-92-1	
Manganese	269	mg/kg	0.20	6020	06/12/12 17:04	PER	7439-96-5	
Mercury	0.0155	mg/kg	0.0055	7471A	06/12/12 14:26	JRT	7439-97-6	
Nickel	6.17	mg/kg	0.20	6020	06/12/12 17:04	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/12/12 17:04	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/12/12 17:04	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/12/12 17:04	PER	7440-28-0	
Vanadium	3.95	mg/kg	0.20	6020	06/12/12 17:04	PER	7440-62-2	
Zinc	11.8	mg/kg	1.0	6020	06/12/12 17:04	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/14/12 05:37	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	56-55-3	I
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	50-32-8	I
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	205-99-2	I

I-Matrix interference with internal standard



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.09 (continued)

Sample Tag: SB-A5.1-ME145_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	80	ug/kg	40	8270C	06/14/12 05:37	JGH	191-24-2	I
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	207-08-9	I
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	85-68-7	I
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	218-01-9	I
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	91-94-1	I
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/14/12 05:37	JGH	53-70-3	I
Dibenzofuran	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/14/12 05:37	JGH	84-66-2	
Dimethyl phthalate	50	ug/kg	40	8270C	06/14/12 05:37	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/14/12 05:37	JGH	117-81-7	I
Fluoranthene	50	ug/kg	40	8270C	06/14/12 05:37	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	193-39-5	I
Isophorone	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/14/12 05:37	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/14/12 05:37	JGH	117-84-0	I

I-Matrix interference with internal standard

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.09 (continued)

Sample Tag: SB-A5.1-ME145_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	108-95-2	
Pyrene	100	ug/kg	40	8270C	06/14/12 05:37	JGH	129-00-0	I
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 05:37	JGH	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/14/12 13:23	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	56-55-3	I
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	50-32-8	I
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	205-99-2	I
Benzo(ghi)perylene	60	ug/kg	40	8270C	06/14/12 13:23	JGH	191-24-2	I
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	207-08-9	I
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	85-68-7	I
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	218-01-9	I
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	91-94-1	I
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/14/12 13:23	JGH	53-70-3	I
Dibenzofuran	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/14/12 13:23	JGH	84-66-2	
Dimethyl phthalate	40	ug/kg	40	8270C	06/14/12 13:23	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/14/12 13:23	JGH	117-81-7	I
Fluoranthene	40	ug/kg	40	8270C	06/14/12 13:23	JGH	206-44-0	

I-Matrix interference with internal standard

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.09 (continued)

Sample Tag: SB-A5.1-ME145_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
Fluorene	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	193-39-5	I
Isophorone	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/14/12 13:23	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/14/12 13:23	JGH	117-84-0	I
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	108-95-2	
Pyrene	90	ug/kg	40	8270C	06/14/12 13:23	JGH	129-00-0	I
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 13:23	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/13/12 18:51	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	76-13-1	
Acetone	Not detected	ug/kg	580	5035/8260B	06/13/12 18:51	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	580	5035/8260B	06/13/12 18:51	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	580	5035/8260B	06/13/12 18:51	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	75-00-3	
Trichlorofluoromethane	120	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	156-59-2	

I-Matrix interference with internal standard



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.09 (continued)

Sample Tag: SB-A5.1-ME145_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Chloroform	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	580	5035/8260B	06/13/12 18:51	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	580	5035/8260B	06/13/12 18:51	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/13/12 18:51	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 18:51	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.10

Sample Tag: SB-A5.1-ME145_5-6

Collected Date/Time: 06/06/2012 10:49

Matrix: Soil

COC Reference: 69066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 10:29	CCM		
Mercury Digestion	Completed			7471A	06/12/12 09:45	JRH		
Metal Digestion	Completed			3050B	06/12/12 10:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/12/12 17:06	PER	7440-36-0	
Arsenic	0.63	mg/kg	0.10	6020	06/12/12 17:06	PER	7440-38-2	
Barium	61.5	mg/kg	1.0	6020	06/12/12 17:06	PER	7440-39-3	
Beryllium	0.54	mg/kg	0.20	6020	06/12/12 17:06	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/12/12 17:06	PER	7440-42-8	
Cadmium	0.16	mg/kg	0.10	6020	06/12/12 17:06	PER	7440-43-9	
Chromium	7.05	mg/kg	0.20	6020	06/12/12 17:06	PER	7440-47-3	
Cobalt	5.77	mg/kg	0.20	6020	06/12/12 17:06	PER	7440-48-4	
Copper	12.0	mg/kg	0.20	6020	06/12/12 17:06	PER	7440-50-8	
Lead	7.59	mg/kg	0.20	6020	06/12/12 17:06	PER	7439-92-1	
Manganese	55.9	mg/kg	0.20	6020	06/12/12 17:06	PER	7439-96-5	
Mercury	0.0254	mg/kg	0.0057	7471A	06/12/12 14:28	JRT	7439-97-6	
Nickel	9.81	mg/kg	0.20	6020	06/12/12 17:06	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/12/12 17:06	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/12/12 17:06	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/12/12 17:06	PER	7440-28-0	
Vanadium	20.8	mg/kg	0.20	6020	06/12/12 17:06	PER	7440-62-2	
Zinc	21.6	mg/kg	1.0	6020	06/12/12 17:06	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	98-86-2	
Anthracene	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	120-12-7	
Atrazine	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	400	8270C	06/14/12 05:02	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.10 (continued)

Sample Tag: SB-A5.1-ME145_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	105-60-2	
Carbazole	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	108-60-1	
Chrysene	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	400	8270C	06/14/12 05:02	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	400	8270C	06/14/12 05:02	JGH	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	400	8270C	06/14/12 05:02	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	206-44-0	
Fluorene	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	193-39-5	
Isophorone	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	400	8270C	06/14/12 05:02	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	400	8270C	06/14/12 05:02	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	85-01-8	
Phenol	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	108-95-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.10 (continued)

Sample Tag: SB-A5.1-ME145_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	200	8270C	06/14/12 05:02	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/13/12 19:09	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	76-13-1	
Acetone	Not detected	ug/kg	620	5035/8260B	06/13/12 19:09	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	620	5035/8260B	06/13/12 19:09	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	620	5035/8260B	06/13/12 19:09	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	620	5035/8260B	06/13/12 19:09	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	620	5035/8260B	06/13/12 19:09	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/13/12 19:09	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	95-47-6	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.10 (continued)

Sample Tag: SB-A5.1-ME145_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Styrene	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 19:09	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.11
Sample Tag: SB-A5.1-DUP84
Collected Date/Time: 06/06/2012 00:01
Matrix: Soil
COC Reference: 69066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 10:29	CCM		
Mercury Digestion	Completed			7471A	06/12/12 09:45	JRH		
Metal Digestion	Completed			3050B	06/12/12 10:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/12/12 17:08	PER	7440-36-0	
Arsenic	0.43	mg/kg	0.10	6020	06/12/12 17:08	PER	7440-38-2	
Barium	61.3	mg/kg	1.0	6020	06/12/12 17:08	PER	7440-39-3	
Beryllium	0.40	mg/kg	0.20	6020	06/12/12 17:08	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/12/12 17:08	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/12/12 17:08	PER	7440-43-9	
Chromium	6.77	mg/kg	0.20	6020	06/12/12 17:08	PER	7440-47-3	
Cobalt	5.11	mg/kg	0.20	6020	06/12/12 17:08	PER	7440-48-4	
Copper	7.43	mg/kg	0.20	6020	06/12/12 17:08	PER	7440-50-8	
Lead	6.57	mg/kg	0.20	6020	06/12/12 17:08	PER	7439-92-1	
Manganese	57.4	mg/kg	0.20	6020	06/12/12 17:08	PER	7439-96-5	
Mercury	0.0124	mg/kg	0.0058	7471A	06/12/12 14:30	JRT	7439-97-6	
Nickel	8.85	mg/kg	0.20	6020	06/12/12 17:08	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/12/12 17:08	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/12/12 17:08	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/12/12 17:08	PER	7440-28-0	
Vanadium	12.0	mg/kg	0.20	6020	06/12/12 17:08	PER	7440-62-2	
Zinc	20.2	mg/kg	1.0	6020	06/12/12 17:08	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	98-86-2	
Anthracene	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	120-12-7	
Atrazine	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	8270C	06/14/12 04:27	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	100-52-7	
Benzo(a)anthracene	90	ug/kg	80	8270C	06/14/12 04:27	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	50-32-8	
Benzo(b)fluoranthene	130	ug/kg	80	8270C	06/14/12 04:27	JGH	205-99-2	p

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.11 (continued)

Sample Tag: SB-A5.1-DUP84

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	191-24-2	
Benzo(k)fluoranthene	130	ug/kg	80	8270C	06/14/12 04:27	JGH	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	105-60-2	
Carbazole	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	108-60-1	
Chrysene	90	ug/kg	80	8270C	06/14/12 04:27	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	8270C	06/14/12 04:27	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	8270C	06/14/12 04:27	JGH	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	8270C	06/14/12 04:27	JGH	117-81-7	
Fluoranthene	170	ug/kg	80	8270C	06/14/12 04:27	JGH	206-44-0	
Fluorene	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	193-39-5	
Isophorone	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	8270C	06/14/12 04:27	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	8270C	06/14/12 04:27	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	87-86-5	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.11 (continued)

Sample Tag: SB-A5.1-DUP84

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenanthrene	150	ug/kg	80	8270C	06/14/12 04:27	JGH	85-01-8	
Phenol	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	108-95-2	
Pyrene	140	ug/kg	80	8270C	06/14/12 04:27	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	80	8270C	06/14/12 04:27	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/13/12 19:27	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	76-13-1	
Acetone	Not detected	ug/kg	650	5035/8260B	06/13/12 19:27	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	650	5035/8260B	06/13/12 19:27	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	650	5035/8260B	06/13/12 19:27	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	650	5035/8260B	06/13/12 19:27	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	650	5035/8260B	06/13/12 19:27	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	100-41-4	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.11 (continued)

Sample Tag: SB-A5.1-DUP84

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/13/12 19:27	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/13/12 19:27	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.12
Sample Tag: SB-A5.1-ME145_9-10
Collected Date/Time: 06/06/2012 10:55
Matrix: Soil
COC Reference: 69066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 10:29	CCM		
Mercury Digestion	Completed			7471A	06/12/12 09:45	JRH		
Metal Digestion	Completed			3050B	06/12/12 10:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/12/12 17:10	PER	7440-36-0	
Arsenic	1.56	mg/kg	0.10	6020	06/12/12 17:10	PER	7440-38-2	
Barium	26.9	mg/kg	1.0	6020	06/12/12 17:10	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/12/12 17:10	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/12/12 17:10	PER	7440-42-8	
Cadmium	0.10	mg/kg	0.10	6020	06/12/12 17:10	PER	7440-43-9	
Chromium	7.21	mg/kg	0.20	6020	06/12/12 17:10	PER	7440-47-3	
Cobalt	3.06	mg/kg	0.20	6020	06/12/12 17:10	PER	7440-48-4	
Copper	9.79	mg/kg	0.20	6020	06/12/12 17:10	PER	7440-50-8	
Lead	4.86	mg/kg	0.20	6020	06/12/12 17:10	PER	7439-92-1	
Manganese	242	mg/kg	0.20	6020	06/12/12 17:10	PER	7439-96-5	
Mercury	0.0129	mg/kg	0.0055	7471A	06/12/12 14:32	JRT	7439-97-6	
Nickel	10.8	mg/kg	0.20	6020	06/12/12 17:10	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/12/12 17:10	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/12/12 17:10	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/12/12 17:10	PER	7440-28-0	
Vanadium	9.01	mg/kg	0.20	6020	06/12/12 17:10	PER	7440-62-2	
Zinc	17.8	mg/kg	1.0	6020	06/12/12 17:10	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/13/12 23:26	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.12 (continued)

Sample Tag: SB-A5.1-ME145_9-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/13/12 23:26	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/13/12 23:26	JGH	84-66-2	
Dimethyl phthalate	60	ug/kg	40	8270C	06/13/12 23:26	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/13/12 23:26	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/13/12 23:26	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/13/12 23:26	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.12 (continued)

Sample Tag: SB-A5.1-ME145_9-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/13/12 23:26	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	8,000	8260B	06/13/12 19:45	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	76-13-1	
Acetone	Not detected	ug/kg	790	5035/8260B	06/13/12 19:45	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	790	5035/8260B	06/13/12 19:45	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	790	5035/8260B	06/13/12 19:45	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	156-59-2	
Chloroform	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	790	5035/8260B	06/13/12 19:45	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	790	5035/8260B	06/13/12 19:45	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	56-23-5	
Benzene	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	10061-01-5	
Toluene	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	200	5035/8260B	06/13/12 19:45	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.12 (continued)

Sample Tag: SB-A5.1-ME145_9-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	95-47-6	
Styrene	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	98-82-8	
Bromoform	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/13/12 19:45	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.13

Sample Tag: SB-A5.1-ME145_16-17

Collected Date/Time: 06/06/2012 10:59

Matrix: Soil

COC Reference: 69066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 10:29	CCM		
Mercury Digestion	Completed			7471A	06/12/12 09:45	JRH		
Metal Digestion	Completed			3050B	06/12/12 10:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/12/12 17:12	PER	7440-36-0	
Arsenic	2.59	mg/kg	0.10	6020	06/12/12 17:12	PER	7440-38-2	
Barium	35.4	mg/kg	1.0	6020	06/12/12 17:12	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/12/12 17:12	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/12/12 17:12	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/12/12 17:12	PER	7440-43-9	
Chromium	5.62	mg/kg	0.20	6020	06/12/12 17:12	PER	7440-47-3	
Cobalt	3.89	mg/kg	0.20	6020	06/12/12 17:12	PER	7440-48-4	
Copper	9.48	mg/kg	0.20	6020	06/12/12 17:12	PER	7440-50-8	
Lead	4.33	mg/kg	0.20	6020	06/12/12 17:12	PER	7439-92-1	
Manganese	253	mg/kg	0.20	6020	06/12/12 17:12	PER	7439-96-5	
Mercury	0.0089	mg/kg	0.0056	7471A	06/12/12 14:46	JRT	7439-97-6	
Nickel	11.1	mg/kg	0.20	6020	06/12/12 17:12	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/12/12 17:12	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/12/12 17:12	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/12/12 17:12	PER	7440-28-0	
Vanadium	7.88	mg/kg	0.20	6020	06/12/12 17:12	PER	7440-62-2	
Zinc	19.5	mg/kg	1.0	6020	06/12/12 17:12	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/14/12 02:43	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.13 (continued)

Sample Tag: SB-A5.1-ME145_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/14/12 02:43	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/14/12 02:43	JGH	84-66-2	
Dimethyl phthalate	110	ug/kg	40	8270C	06/14/12 02:43	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/14/12 02:43	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/14/12 02:43	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/14/12 02:43	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.13 (continued)

Sample Tag: SB-A5.1-ME145_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 02:43	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/13/12 20:03	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	76-13-1	
Acetone	Not detected	ug/kg	640	5035/8260B	06/13/12 20:03	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	640	5035/8260B	06/13/12 20:03	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	640	5035/8260B	06/13/12 20:03	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	640	5035/8260B	06/13/12 20:03	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	640	5035/8260B	06/13/12 20:03	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/13/12 20:03	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.13 (continued)

Sample Tag: SB-A5.1-ME145_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/13/12 20:03	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.14
Sample Tag: Trip Blank
Collected Date/Time: 06/06/2012 00:01
Matrix: Water
COC Reference: 69066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	HCL	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	100	8260B	06/11/12 00:56	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	06/11/12 00:56	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	06/11/12 00:56	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	06/11/12 00:56	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	06/11/12 00:56	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	06/11/12 00:56	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/11/12 00:56	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.14 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	06/11/12 00:56	WAT	96-12-8	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.15

Sample Tag: SB-A5.1-MB142_0-1

Collected Date/Time: 06/06/2012 11:35

Matrix: Soil

COC Reference: 69065

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 10:29	CCM		
Mercury Digestion	Completed			7471A	06/12/12 09:45	JRH		
Metal Digestion	Completed			3050B	06/14/12 09:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	0.22	mg/kg	0.21	6020	06/14/12 13:36	PER	7440-36-0	
Arsenic	3.57	mg/kg	0.10	6020	06/14/12 13:36	PER	7440-38-2	
Barium	53.0	mg/kg	1.0	6020	06/14/12 13:36	PER	7440-39-3	
Beryllium	0.30	mg/kg	0.21	6020	06/14/12 13:36	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/14/12 13:36	PER	7440-42-8	
Cadmium	0.74	mg/kg	0.10	6020	06/14/12 13:36	PER	7440-43-9	
Chromium	11.0	mg/kg	0.21	6020	06/14/12 13:36	PER	7440-47-3	
Cobalt	2.16	mg/kg	0.21	6020	06/14/12 13:36	PER	7440-48-4	
Copper	20.0	mg/kg	0.21	6020	06/14/12 13:36	PER	7440-50-8	
Lead	65.3	mg/kg	0.21	6020	06/14/12 13:36	PER	7439-92-1	
Manganese	191	mg/kg	0.21	6020	06/14/12 13:36	PER	7439-96-5	
Mercury	0.0589	mg/kg	0.0057	7471A	06/12/12 14:48	JRT	7439-97-6	
Nickel	6.01	mg/kg	0.21	6020	06/14/12 13:36	PER	7440-02-0	
Selenium	0.39	mg/kg	0.21	6020	06/14/12 13:36	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/14/12 13:36	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/14/12 13:36	PER	7440-28-0	
Vanadium	6.60	mg/kg	0.21	6020	06/14/12 13:36	PER	7440-62-2	
Zinc	62.2	mg/kg	1.0	6020	06/14/12 13:36	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	98-86-2	
Anthracene	200	ug/kg	200	8270C	06/14/12 07:23	JGH	120-12-7	
Atrazine	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	300	8270C	06/14/12 07:23	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	100-52-7	
Benzo(a)anthracene	800	ug/kg	200	8270C	06/14/12 07:23	JGH	56-55-3	I
Benzo(a)pyrene	800	ug/kg	200	8270C	06/14/12 07:23	JGH	50-32-8	I
Benzo(b)fluoranthene	1,100	ug/kg	200	8270C	06/14/12 07:23	JGH	205-99-2	pl

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.15 (continued)

Sample Tag: SB-A5.1-MB142_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	500	ug/kg	200	8270C	06/14/12 07:23	JGH	191-24-2	I
Benzo(k)fluoranthene	900	ug/kg	200	8270C	06/14/12 07:23	JGH	207-08-9	pl
Butyl benzyl phthalate	300	ug/kg	200	8270C	06/14/12 07:23	JGH	85-68-7	I
2-Chloronaphthalene	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	105-60-2	
Carbazole	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	108-60-1	
Chrysene	800	ug/kg	200	8270C	06/14/12 07:23	JGH	218-01-9	I
2,4-Dichlorophenol	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	91-94-1	I
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	8270C	06/14/12 07:23	JGH	53-70-3	I
Dibenzofuran	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	300	8270C	06/14/12 07:23	JGH	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	300	8270C	06/14/12 07:23	JGH	117-81-7	I
Fluoranthene	1,300	ug/kg	200	8270C	06/14/12 07:23	JGH	206-44-0	
Fluorene	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	300	ug/kg	200	8270C	06/14/12 07:23	JGH	193-39-5	I
Isophorone	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	300	8270C	06/14/12 07:23	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	300	8270C	06/14/12 07:23	JGH	117-84-0	I

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.15 (continued)

Sample Tag: SB-A5.1-MB142_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pentachlorophenol	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	87-86-5	
Phenanthrene	900	ug/kg	200	8270C	06/14/12 07:23	JGH	85-01-8	
Phenol	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	108-95-2	
Pyrene	2,400	ug/kg	200	8270C	06/14/12 07:23	JGH	129-00-0	I
2,4,5-Trichlorophenol	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	200	8270C	06/14/12 07:23	JGH	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	98-86-2	
Anthracene	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	120-12-7	
Atrazine	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	300	8270C	06/14/12 14:32	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	100-52-7	
Benzo(a)anthracene	600	ug/kg	200	8270C	06/14/12 14:32	JGH	56-55-3	I
Benzo(a)pyrene	700	ug/kg	200	8270C	06/14/12 14:32	JGH	50-32-8	I
Benzo(b)fluoranthene	1,600	ug/kg	200	8270C	06/14/12 14:32	JGH	205-99-2	pl
Benzo(ghi)perylene	400	ug/kg	200	8270C	06/14/12 14:32	JGH	191-24-2	I
Benzo(k)fluoranthene	1,600	ug/kg	200	8270C	06/14/12 14:32	JGH	207-08-9	pl
Butyl benzyl phthalate	300	ug/kg	200	8270C	06/14/12 14:32	JGH	85-68-7	I
2-Chloronaphthalene	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	105-60-2	
Carbazole	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	108-60-1	
Chrysene	700	ug/kg	200	8270C	06/14/12 14:32	JGH	218-01-9	I
2,4-Dichlorophenol	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	91-94-1	I
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	8270C	06/14/12 14:32	JGH	53-70-3	I
Dibenzofuran	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	300	8270C	06/14/12 14:32	JGH	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	300	8270C	06/14/12 14:32	JGH	117-81-7	I
Fluoranthene	1,000	ug/kg	200	8270C	06/14/12 14:32	JGH	206-44-0	

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.15 (continued)

Sample Tag: SB-A5.1-MB142_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
Fluorene	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	400	ug/kg	200	8270C	06/14/12 14:32	JGH	193-39-5	I
Isophorone	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	300	8270C	06/14/12 14:32	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	300	8270C	06/14/12 14:32	JGH	117-84-0	I
Pentachlorophenol	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	87-86-5	
Phenanthrene	700	ug/kg	200	8270C	06/14/12 14:32	JGH	85-01-8	
Phenol	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	108-95-2	
Pyrene	2,000	ug/kg	200	8270C	06/14/12 14:32	JGH	129-00-0	I
2,4,5-Trichlorophenol	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	200	8270C	06/14/12 14:32	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	10,000	8260B	06/14/12 02:08	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	76-13-1	
Acetone	Not detected	ug/kg	990	5035/8260B	06/14/12 02:08	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	990	5035/8260B	06/14/12 02:08	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	990	5035/8260B	06/14/12 02:08	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	156-59-2	

I-Matrix interference with internal standard



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.15 (continued)

Sample Tag: SB-A5.1-MB142_0-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Chloroform	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	990	5035/8260B	06/14/12 02:08	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	990	5035/8260B	06/14/12 02:08	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	56-23-5	
Benzene	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	10061-01-5	
Toluene	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	200	5035/8260B	06/14/12 02:08	WAT		
o-Xylene	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	95-47-6	
Styrene	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	100	5035/8260B	06/14/12 02:08	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.16

Sample Tag: SB-A5.1-MB142_7-8

Collected Date/Time: 06/06/2012 11:56

Matrix: Soil

COC Reference: 69065

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 10:29	CCM		
Mercury Digestion	Completed			7471A	06/12/12 09:45	JRH		
Metal Digestion	Completed			3050B	06/14/12 09:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/14/12 13:41	PER	7440-36-0	
Arsenic	1.04	mg/kg	0.10	6020	06/14/12 13:41	PER	7440-38-2	
Barium	42.8	mg/kg	1.0	6020	06/14/12 13:41	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/14/12 13:41	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/14/12 13:41	PER	7440-42-8	
Cadmium	0.21	mg/kg	0.10	6020	06/14/12 13:41	PER	7440-43-9	
Chromium	2.60	mg/kg	0.21	6020	06/14/12 13:41	PER	7440-47-3	
Cobalt	1.58	mg/kg	0.21	6020	06/14/12 13:41	PER	7440-48-4	
Copper	15.8	mg/kg	0.21	6020	06/14/12 13:41	PER	7440-50-8	
Lead	8.98	mg/kg	0.21	6020	06/14/12 13:41	PER	7439-92-1	
Manganese	146	mg/kg	0.21	6020	06/14/12 13:41	PER	7439-96-5	
Mercury	0.0166	mg/kg	0.0057	7471A	06/12/12 14:50	JRT	7439-97-6	
Nickel	3.88	mg/kg	0.21	6020	06/14/12 13:41	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/14/12 13:41	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/14/12 13:41	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/14/12 13:41	PER	7440-28-0	
Vanadium	6.20	mg/kg	0.21	6020	06/14/12 13:41	PER	7440-62-2	
Zinc	17.9	mg/kg	1.0	6020	06/14/12 13:41	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/14/12 03:18	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.16 (continued)

Sample Tag: SB-A5.1-MB142_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/14/12 03:18	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/14/12 03:18	JGH	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/14/12 03:18	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/14/12 03:18	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/14/12 03:18	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	108-95-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.16 (continued)

Sample Tag: SB-A5.1-MB142_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 03:18	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/14/12 02:28	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	76-13-1	
Acetone	Not detected	ug/kg	660	5035/8260B	06/14/12 02:28	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	660	5035/8260B	06/14/12 02:28	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	660	5035/8260B	06/14/12 02:28	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	660	5035/8260B	06/14/12 02:28	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	660	5035/8260B	06/14/12 02:28	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/14/12 02:28	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	95-47-6	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.16 (continued)

Sample Tag: SB-A5.1-MB142_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Styrene	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 02:28	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.17

Sample Tag: SB-A5.1-MB142_16-17

Collected Date/Time: 06/06/2012 12:16

Matrix: Soil

COC Reference: 69065

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 17:05	CCM		
Mercury Digestion	Completed			7471A	06/12/12 12:30	JRH		
Metal Digestion	Completed			3050B	06/14/12 09:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/14/12 13:42	PER	7440-36-0	
Arsenic	3.11	mg/kg	0.10	6020	06/14/12 13:42	PER	7440-38-2	
Barium	29.6	mg/kg	1.0	6020	06/14/12 13:42	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/14/12 13:42	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	06/14/12 13:42	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/14/12 13:42	PER	7440-43-9	
Chromium	3.04	mg/kg	0.21	6020	06/14/12 13:42	PER	7440-47-3	
Cobalt	3.05	mg/kg	0.21	6020	06/14/12 13:42	PER	7440-48-4	
Copper	8.96	mg/kg	0.21	6020	06/14/12 13:42	PER	7440-50-8	
Lead	4.77	mg/kg	0.21	6020	06/14/12 13:42	PER	7439-92-1	
Manganese	238	mg/kg	0.21	6020	06/14/12 13:42	PER	7439-96-5	
Mercury	0.0126	mg/kg	0.0058	7471A	06/12/12 15:38	JRT	7439-97-6	
Nickel	9.16	mg/kg	0.21	6020	06/14/12 13:42	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/14/12 13:42	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/14/12 13:42	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/14/12 13:42	PER	7440-28-0	
Vanadium	4.87	mg/kg	0.21	6020	06/14/12 13:42	PER	7440-62-2	
Zinc	14.0	mg/kg	1.0	6020	06/14/12 13:42	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/14/12 13:05	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.17 (continued)

Sample Tag: SB-A5.1-MB142_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/14/12 13:05	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/14/12 13:05	JGH	84-66-2	
Dimethyl phthalate	60	ug/kg	40	8270C	06/14/12 13:05	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/14/12 13:05	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/14/12 13:05	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/14/12 13:05	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.17 (continued)

Sample Tag: SB-A5.1-MB142_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 13:05	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	8,000	8260B	06/14/12 16:36	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	76-13-1	
Acetone	Not detected	ug/kg	810	5035/8260B	06/14/12 16:36	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	810	5035/8260B	06/14/12 16:36	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	810	5035/8260B	06/14/12 16:36	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	156-59-2	
Chloroform	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	810	5035/8260B	06/14/12 16:36	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	810	5035/8260B	06/14/12 16:36	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	56-23-5	
Benzene	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	10061-01-5	
Toluene	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	200	5035/8260B	06/14/12 16:36	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.17 (continued)

Sample Tag: SB-A5.1-MB142_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	95-47-6	
Styrene	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	98-82-8	
Bromoform	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 16:36	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.18

Sample Tag: SB-A5.1-MB142_16-17 MS

Collected Date/Time: 06/06/2012 12:16

Matrix: Soil

COC Reference: 69065

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 17:05	CCM		
Mercury Digestion	Completed			7471A	06/12/12 12:30	JRH		
Metal Digestion	Completed			3050B	06/14/12 09:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	22.3	mg/kg	0.21	6020	06/14/12 13:47	PER	7440-36-0	
Arsenic	25.0	mg/kg	0.10	6020	06/14/12 13:47	PER	7440-38-2	
Barium	49.4	mg/kg	1.0	6020	06/14/12 13:47	PER	7440-39-3	
Beryllium	21.2	mg/kg	0.21	6020	06/14/12 13:47	PER	7440-41-7	
Boron	22.3	mg/kg	4.3	6020	06/14/12 13:47	PER	7440-42-8	
Cadmium	22.2	mg/kg	0.10	6020	06/14/12 13:47	PER	7440-43-9	
Chromium	25.4	mg/kg	0.21	6020	06/14/12 13:47	PER	7440-47-3	
Cobalt	24.4	mg/kg	0.21	6020	06/14/12 13:47	PER	7440-48-4	
Copper	28.1	mg/kg	0.21	6020	06/14/12 13:47	PER	7440-50-8	
Lead	24.1	mg/kg	0.21	6020	06/14/12 13:47	PER	7439-92-1	
Manganese	259	mg/kg	0.21	6020	06/14/12 13:47	PER	7439-96-5	
Mercury	0.1387	mg/kg	0.0059	7471A	06/12/12 15:40	JRT	7439-97-6	
Nickel	29.7	mg/kg	0.21	6020	06/14/12 13:47	PER	7440-02-0	
Selenium	22.3	mg/kg	0.21	6020	06/14/12 13:47	PER	7782-49-2	
Silver	20.1	mg/kg	0.10	6020	06/14/12 13:47	PER	7440-22-4	
Thallium	18.7	mg/kg	0.21	6020	06/14/12 13:47	PER	7440-28-0	
Vanadium	27.9	mg/kg	0.21	6020	06/14/12 13:47	PER	7440-62-2	
Zinc	33.7	mg/kg	1.0	6020	06/14/12 13:47	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,460	ug/kg	40	8270C	06/14/12 13:34	JGH	83-32-9	1
Acenaphthylene	1,580	ug/kg	40	8270C	06/14/12 13:34	JGH	208-96-8	1
Acetophenone	1,470	ug/kg	40	8270C	06/14/12 13:34	JGH	98-86-2	1
Anthracene	1,400	ug/kg	40	8270C	06/14/12 13:34	JGH	120-12-7	1
Atrazine	1,640	ug/kg	40	8270C	06/14/12 13:34	JGH	1912-24-9	1
1,1'-Biphenyl	1,430	ug/kg	40	8270C	06/14/12 13:34	JGH	92-52-4	1
4-Bromophenyl phenyl ether	1,510	ug/kg	40	8270C	06/14/12 13:34	JGH	101-55-3	1
di-n-Butyl phthalate	1,370	ug/kg	80	8270C	06/14/12 13:34	JGH	84-74-2	B1
Benzaldehyde	1,230	ug/kg	40	8270C	06/14/12 13:34	JGH	100-52-7	1
Benzo(a)anthracene	1,610	ug/kg	40	8270C	06/14/12 13:34	JGH	56-55-3	1
Benzo(a)pyrene	1,400	ug/kg	40	8270C	06/14/12 13:34	JGH	50-32-8	1

1-Spiked at 1.67mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.18 (continued)

Sample Tag: SB-A5.1-MB142_16-17 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(b)fluoranthene	1,520	ug/kg	40	8270C	06/14/12 13:34	JGH	205-99-2	1
Benzo(ghi)perylene	2,060	ug/kg	40	8270C	06/14/12 13:34	JGH	191-24-2	1
Benzo(k)fluoranthene	1,430	ug/kg	40	8270C	06/14/12 13:34	JGH	207-08-9	1
Butyl benzyl phthalate	1,390	ug/kg	40	8270C	06/14/12 13:34	JGH	85-68-7	1
2-Chloronaphthalene	1,440	ug/kg	40	8270C	06/14/12 13:34	JGH	91-58-7	1
2-Chlorophenol	1,330	ug/kg	40	8270C	06/14/12 13:34	JGH	95-57-8	1
4-Chloro-3-methylphenol	1,510	ug/kg	40	8270C	06/14/12 13:34	JGH	59-50-7	1
4-Chloroaniline	480	ug/kg	40	8270C	06/14/12 13:34	JGH	106-47-8	1
4-Chlorophenyl phenyl ether	2,100	ug/kg	40	8270C	06/14/12 13:34	JGH	7005-72-3	1
Caprolactam	1,550	ug/kg	40	8270C	06/14/12 13:34	JGH	105-60-2	1
Carbazole	1,560	ug/kg	40	8270C	06/14/12 13:34	JGH	86-74-8	1
bis(2-Chloroethoxy)methane	1,230	ug/kg	40	8270C	06/14/12 13:34	JGH	111-91-1	1
bis(2-Chloroethyl)ether	1,190	ug/kg	40	8270C	06/14/12 13:34	JGH	111-44-4	1
bis(2-Chloroisopropyl)ether	1,120	ug/kg	40	8270C	06/14/12 13:34	JGH	108-60-1	1
Chrysene	1,510	ug/kg	40	8270C	06/14/12 13:34	JGH	218-01-9	1
2,4-Dichlorophenol	1,460	ug/kg	40	8270C	06/14/12 13:34	JGH	120-83-2	1
2,4-Dimethylphenol	1,410	ug/kg	40	8270C	06/14/12 13:34	JGH	105-67-9	1
2,4-Dinitrophenol	710	ug/kg	40	8270C	06/14/12 13:34	JGH	51-28-5	1
2,4-Dinitrotoluene	1,530	ug/kg	40	8270C	06/14/12 13:34	JGH	121-14-2	1
2,6-Dinitrotoluene	1,760	ug/kg	40	8270C	06/14/12 13:34	JGH	606-20-2	1
3,3'-Dichlorobenzidine	1,390	ug/kg	40	8270C	06/14/12 13:34	JGH	91-94-1	1
4,6-Dinitro-2-methylphenol	1,160	ug/kg	40	8270C	06/14/12 13:34	JGH	534-52-1	1
Dibenzo(ah)anthracene	2,260	ug/kg	80	8270C	06/14/12 13:34	JGH	53-70-3	1
Dibenzofuran	1,510	ug/kg	40	8270C	06/14/12 13:34	JGH	132-64-9	1
Diethyl phthalate	1,570	ug/kg	80	8270C	06/14/12 13:34	JGH	84-66-2	1
Dimethyl phthalate	1,650	ug/kg	40	8270C	06/14/12 13:34	JGH	131-11-3	B1
bis(2-Ethylhexyl)phthalate	1,480	ug/kg	80	8270C	06/14/12 13:34	JGH	117-81-7	1
Fluoranthene	1,520	ug/kg	40	8270C	06/14/12 13:34	JGH	206-44-0	1
Fluorene	1,950	ug/kg	40	8270C	06/14/12 13:34	JGH	86-73-7	1
Hexachlorobenzene	1,390	ug/kg	40	8270C	06/14/12 13:34	JGH	118-74-1	1
Hexachlorobutadiene	1,170	ug/kg	40	8270C	06/14/12 13:34	JGH	87-68-3	1
Hexachlorocyclopentadiene	810	ug/kg	40	8270C	06/14/12 13:34	JGH	77-47-4	1
Hexachloroethane	1,070	ug/kg	40	8270C	06/14/12 13:34	JGH	67-72-1	1
Indeno(1,2,3-cd)pyrene	2,060	ug/kg	40	8270C	06/14/12 13:34	JGH	193-39-5	1
Isophorone	1,330	ug/kg	40	8270C	06/14/12 13:34	JGH	78-59-1	1
2-Methylnaphthalene	1,380	ug/kg	40	8270C	06/14/12 13:34	JGH	91-57-6	1
2-Methylphenol	1,480	ug/kg	40	8270C	06/14/12 13:34	JGH	95-48-7	1
3-, 4-Methylphenol	1,820	ug/kg	80	8270C	06/14/12 13:34	JGH	3/4-Cresol	1
2-Nitroaniline	1,540	ug/kg	40	8270C	06/14/12 13:34	JGH	88-74-4	1
2-Nitrophenol	1,320	ug/kg	40	8270C	06/14/12 13:34	JGH	88-75-5	1
3-Nitroaniline	1,350	ug/kg	40	8270C	06/14/12 13:34	JGH	99-09-2	1
4-Nitroaniline	1,650	ug/kg	40	8270C	06/14/12 13:34	JGH	100-01-6	1
4-Nitrophenol	1,360	ug/kg	40	8270C	06/14/12 13:34	JGH	100-02-7	1
N-Nitrosodi-n-propylamine	1,400	ug/kg	40	8270C	06/14/12 13:34	JGH	621-64-7	1
N-Nitrosodiphenylamine	1,100	ug/kg	40	8270C	06/14/12 13:34	JGH	86-30-6	1
Naphthalene	1,290	ug/kg	40	8270C	06/14/12 13:34	JGH	91-20-3	1
Nitrobenzene	1,220	ug/kg	40	8270C	06/14/12 13:34	JGH	98-95-3	1

1-Spiked at 1.67mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.18 (continued)

Sample Tag: SB-A5.1-MB142_16-17 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
di-n-Octyl phthalate	1,480	ug/kg	80	8270C	06/14/12 13:34	JGH	117-84-0	1
Pentachlorophenol	1,010	ug/kg	40	8270C	06/14/12 13:34	JGH	87-86-5	1
Phenanthrene	1,450	ug/kg	40	8270C	06/14/12 13:34	JGH	85-01-8	1
Phenol	1,440	ug/kg	40	8270C	06/14/12 13:34	JGH	108-95-2	1
Pyrene	1,480	ug/kg	40	8270C	06/14/12 13:34	JGH	129-00-0	1
2,4,5-Trichlorophenol	1,540	ug/kg	40	8270C	06/14/12 13:34	JGH	95-95-4	1
2,4,6-Trichlorophenol	1,480	ug/kg	40	8270C	06/14/12 13:34	JGH	88-06-2	1
Organics - Volatiles								
1,4-Dioxane	29,000	ug/kg	7,000	8260B	06/14/12 14:41	WAT	123-91-1	2
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	3,520	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	76-13-1	3
Acetone	2,250	ug/kg	680	5035/8260B	06/14/12 14:41	WAT	67-64-1	3
Carbon disulfide	3,110	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	75-15-0	3
Methyl Acetate	2,470	ug/kg	680	5035/8260B	06/14/12 14:41	WAT	79-20-9	3
tert-Methyl butyl ether (MTBE)	2,760	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	1634-04-4	3
2-Butanone (MEK)	2,200	ug/kg	680	5035/8260B	06/14/12 14:41	WAT	78-93-3	3
Dichlorodifluoromethane	3,420	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	75-71-8	3
Chloromethane	3,580	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	74-87-3	3
Vinyl chloride	3,590	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	75-01-4	3
Bromomethane	3,280	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	74-83-9	3
Chloroethane	3,460	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	75-00-3	3
Trichlorofluoromethane	3,620	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	75-69-4	3
1,1-Dichloroethene	3,260	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	75-35-4	3
Methylene chloride	2,880	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	75-09-2	3
trans-1,2-Dichloroethene	3,200	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	156-60-5	3
1,1-Dichloroethane	3,090	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	75-34-3	3
cis-1,2-Dichloroethene	3,090	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	156-59-2	3
Chloroform	3,050	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	67-66-3	3
1,1,1-Trichloroethane	3,360	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	71-55-6	3
Cyclohexane	2,980	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	110-82-7	3
4-Methyl-2-pentanone (MIBK)	2,530	ug/kg	680	5035/8260B	06/14/12 14:41	WAT	108-10-1	3
2-Hexanone	2,390	ug/kg	680	5035/8260B	06/14/12 14:41	WAT	591-78-6	3
Carbon tetrachloride	3,520	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	56-23-5	3
Benzene	3,260	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	71-43-2	3
1,2-Dichloroethane	2,950	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	107-06-2	3
Trichloroethene	3,320	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	79-01-6	3
1,2-Dichloropropane	3,180	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	78-87-5	3
Bromodichloromethane	3,170	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	75-27-4	3
Methyl cyclohexane	3,520	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	108-87-2	3
cis-1,3-Dichloropropene	3,300	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	10061-01-5	3
Toluene	3,370	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	108-88-3	3
trans-1,3-Dichloropropene	3,230	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	10061-02-6	3
1,1,2-Trichloroethane	2,990	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	79-00-5	3
Tetrachloroethene	3,270	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	127-18-4	3

1-Spiked at 1.67mg/kg

2-Spiked at 20mg/kg

3-Spiked at 2.5mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.18 (continued)
Sample Tag: SB-A5.1-MB142_16-17 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Dibromochloromethane	3,150	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	124-48-1	1
1,2-Dibromoethane	3,000	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	106-93-4	1
Chlorobenzene	3,230	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	108-90-7	1
1,1,2,2-Tetrachloroethane	2,880	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	79-34-5	1
Ethylbenzene	3,420	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	100-41-4	1
p,m-Xylene	6,900	ug/kg	100	5035/8260B	06/14/12 14:41	WAT		1
o-Xylene	3,400	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	95-47-6	1
Styrene	3,330	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	100-42-5	1
Isopropylbenzene	3,470	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	98-82-8	1
Bromoform	2,830	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	75-25-2	1
1,3-Dichlorobenzene	3,310	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	541-73-1	1
1,4-Dichlorobenzene	3,210	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	106-46-7	1
1,2-Dichlorobenzene	3,160	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	95-50-1	1
1,2-Dibromo-3-chloropropane	2,840	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	96-12-8	1
1,2,4-Trichlorobenzene	3,370	ug/kg	70	5035/8260B	06/14/12 14:41	WAT	120-82-1	1

1-Spiked at 2.5mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.19

Sample Tag: SB-A5.1-MB142_16-17 MSD

Collected Date/Time: 06/06/2012 12:16

Matrix: Soil

COC Reference: 69065

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 17:05	CCM		
Mercury Digestion	Completed			7471A	06/12/12 12:30	JRH		
Metal Digestion	Completed			3050B	06/14/12 09:00	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	22.9	mg/kg	0.21	6020	06/14/12 13:54	PER	7440-36-0	
Arsenic	25.3	mg/kg	0.10	6020	06/14/12 13:54	PER	7440-38-2	
Barium	51.4	mg/kg	1.0	6020	06/14/12 13:54	PER	7440-39-3	
Beryllium	21.4	mg/kg	0.21	6020	06/14/12 13:54	PER	7440-41-7	
Boron	22.3	mg/kg	4.3	6020	06/14/12 13:54	PER	7440-42-8	
Cadmium	22.5	mg/kg	0.10	6020	06/14/12 13:54	PER	7440-43-9	
Chromium	26.7	mg/kg	0.21	6020	06/14/12 13:54	PER	7440-47-3	
Cobalt	25.1	mg/kg	0.21	6020	06/14/12 13:54	PER	7440-48-4	
Copper	31.5	mg/kg	0.21	6020	06/14/12 13:54	PER	7440-50-8	
Lead	24.2	mg/kg	0.21	6020	06/14/12 13:54	PER	7439-92-1	
Manganese	257	mg/kg	0.21	6020	06/14/12 13:54	PER	7439-96-5	
Mercury	0.1338	mg/kg	0.0058	7471A	06/12/12 15:42	JRH	7439-97-6	
Nickel	30.5	mg/kg	0.21	6020	06/14/12 13:54	PER	7440-02-0	
Selenium	22.8	mg/kg	0.21	6020	06/14/12 13:54	PER	7782-49-2	
Silver	20.6	mg/kg	0.10	6020	06/14/12 13:54	PER	7440-22-4	
Thallium	18.7	mg/kg	0.21	6020	06/14/12 13:54	PER	7440-28-0	
Vanadium	29.4	mg/kg	0.21	6020	06/14/12 13:54	PER	7440-62-2	
Zinc	37.0	mg/kg	1.0	6020	06/14/12 13:54	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,480	ug/kg	40	8270C	06/14/12 14:04	JGH	83-32-9	1
Acenaphthylene	1,610	ug/kg	40	8270C	06/14/12 14:04	JGH	208-96-8	1
Acetophenone	1,520	ug/kg	40	8270C	06/14/12 14:04	JGH	98-86-2	1
Anthracene	1,420	ug/kg	40	8270C	06/14/12 14:04	JGH	120-12-7	1
Atrazine	1,700	ug/kg	40	8270C	06/14/12 14:04	JGH	1912-24-9	1
1,1'-Biphenyl	1,450	ug/kg	40	8270C	06/14/12 14:04	JGH	92-52-4	1
4-Bromophenyl phenyl ether	1,550	ug/kg	40	8270C	06/14/12 14:04	JGH	101-55-3	1
di-n-Butyl phthalate	1,360	ug/kg	80	8270C	06/14/12 14:04	JGH	84-74-2	B1
Benzaldehyde	1,280	ug/kg	40	8270C	06/14/12 14:04	JGH	100-52-7	1
Benzo(a)anthracene	1,620	ug/kg	40	8270C	06/14/12 14:04	JGH	56-55-3	1
Benzo(a)pyrene	1,400	ug/kg	40	8270C	06/14/12 14:04	JGH	50-32-8	1

1-Spiked at 1.67mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.19 (continued)

Sample Tag: SB-A5.1-MB142_16-17 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(b)fluoranthene	1,460	ug/kg	40	8270C	06/14/12 14:04	JGH	205-99-2	1
Benzo(ghi)perylene	2,030	ug/kg	40	8270C	06/14/12 14:04	JGH	191-24-2	1
Benzo(k)fluoranthene	1,510	ug/kg	40	8270C	06/14/12 14:04	JGH	207-08-9	1
Butyl benzyl phthalate	1,420	ug/kg	40	8270C	06/14/12 14:04	JGH	85-68-7	1
2-Chloronaphthalene	1,470	ug/kg	40	8270C	06/14/12 14:04	JGH	91-58-7	1
2-Chlorophenol	1,410	ug/kg	40	8270C	06/14/12 14:04	JGH	95-57-8	1
4-Chloro-3-methylphenol	1,550	ug/kg	40	8270C	06/14/12 14:04	JGH	59-50-7	1
4-Chloroaniline	480	ug/kg	40	8270C	06/14/12 14:04	JGH	106-47-8	1
4-Chlorophenyl phenyl ether	2,130	ug/kg	40	8270C	06/14/12 14:04	JGH	7005-72-3	1
Caprolactam	1,580	ug/kg	40	8270C	06/14/12 14:04	JGH	105-60-2	1
Carbazole	1,580	ug/kg	40	8270C	06/14/12 14:04	JGH	86-74-8	1
bis(2-Chloroethoxy)methane	1,280	ug/kg	40	8270C	06/14/12 14:04	JGH	111-91-1	1
bis(2-Chloroethyl)ether	1,250	ug/kg	40	8270C	06/14/12 14:04	JGH	111-44-4	1
bis(2-Chloroisopropyl)ether	1,170	ug/kg	40	8270C	06/14/12 14:04	JGH	108-60-1	1
Chrysene	1,510	ug/kg	40	8270C	06/14/12 14:04	JGH	218-01-9	1
2,4-Dichlorophenol	1,480	ug/kg	40	8270C	06/14/12 14:04	JGH	120-83-2	1
2,4-Dimethylphenol	1,440	ug/kg	40	8270C	06/14/12 14:04	JGH	105-67-9	1
2,4-Dinitrophenol	790	ug/kg	40	8270C	06/14/12 14:04	JGH	51-28-5	1
2,4-Dinitrotoluene	1,550	ug/kg	40	8270C	06/14/12 14:04	JGH	121-14-2	1
2,6-Dinitrotoluene	1,810	ug/kg	40	8270C	06/14/12 14:04	JGH	606-20-2	1
3,3'-Dichlorobenzidine	1,430	ug/kg	40	8270C	06/14/12 14:04	JGH	91-94-1	1
4,6-Dinitro-2-methylphenol	1,220	ug/kg	40	8270C	06/14/12 14:04	JGH	534-52-1	1
Dibenzo(ah)anthracene	2,240	ug/kg	80	8270C	06/14/12 14:04	JGH	53-70-3	1
Dibenzofuran	1,540	ug/kg	40	8270C	06/14/12 14:04	JGH	132-64-9	1
Diethyl phthalate	1,580	ug/kg	80	8270C	06/14/12 14:04	JGH	84-66-2	1
Dimethyl phthalate	1,670	ug/kg	40	8270C	06/14/12 14:04	JGH	131-11-3	B1
bis(2-Ethylhexyl)phthalate	1,510	ug/kg	80	8270C	06/14/12 14:04	JGH	117-81-7	1
Fluoranthene	1,530	ug/kg	40	8270C	06/14/12 14:04	JGH	206-44-0	1
Fluorene	1,960	ug/kg	40	8270C	06/14/12 14:04	JGH	86-73-7	1
Hexachlorobenzene	1,450	ug/kg	40	8270C	06/14/12 14:04	JGH	118-74-1	1
Hexachlorobutadiene	1,190	ug/kg	40	8270C	06/14/12 14:04	JGH	87-68-3	1
Hexachlorocyclopentadiene	830	ug/kg	40	8270C	06/14/12 14:04	JGH	77-47-4	1
Hexachloroethane	1,110	ug/kg	40	8270C	06/14/12 14:04	JGH	67-72-1	1
Indeno(1,2,3-cd)pyrene	2,030	ug/kg	40	8270C	06/14/12 14:04	JGH	193-39-5	1
Isophorone	1,370	ug/kg	40	8270C	06/14/12 14:04	JGH	78-59-1	1
2-Methylnaphthalene	1,420	ug/kg	40	8270C	06/14/12 14:04	JGH	91-57-6	1
2-Methylphenol	1,550	ug/kg	40	8270C	06/14/12 14:04	JGH	95-48-7	1
3-, 4-Methylphenol	1,900	ug/kg	80	8270C	06/14/12 14:04	JGH	3/4-Cresol	1
2-Nitroaniline	1,570	ug/kg	40	8270C	06/14/12 14:04	JGH	88-74-4	1
2-Nitrophenol	1,370	ug/kg	40	8270C	06/14/12 14:04	JGH	88-75-5	1
3-Nitroaniline	1,370	ug/kg	40	8270C	06/14/12 14:04	JGH	99-09-2	1
4-Nitroaniline	1,680	ug/kg	40	8270C	06/14/12 14:04	JGH	100-01-6	1
4-Nitrophenol	1,380	ug/kg	40	8270C	06/14/12 14:04	JGH	100-02-7	1
N-Nitrosodi-n-propylamine	1,460	ug/kg	40	8270C	06/14/12 14:04	JGH	621-64-7	1
N-Nitrosodiphenylamine	1,120	ug/kg	40	8270C	06/14/12 14:04	JGH	86-30-6	1
Naphthalene	1,340	ug/kg	40	8270C	06/14/12 14:04	JGH	91-20-3	1
Nitrobenzene	1,240	ug/kg	40	8270C	06/14/12 14:04	JGH	98-95-3	1

1-Spiked at 1.67mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.19 (continued)

Sample Tag: SB-A5.1-MB142_16-17 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
di-n-Octyl phthalate	1,500	ug/kg	80	8270C	06/14/12 14:04	JGH	117-84-0	1
Pentachlorophenol	1,070	ug/kg	40	8270C	06/14/12 14:04	JGH	87-86-5	1
Phenanthrene	1,470	ug/kg	40	8270C	06/14/12 14:04	JGH	85-01-8	1
Phenol	1,490	ug/kg	40	8270C	06/14/12 14:04	JGH	108-95-2	1
Pyrene	1,490	ug/kg	40	8270C	06/14/12 14:04	JGH	129-00-0	1
2,4,5-Trichlorophenol	1,550	ug/kg	40	8270C	06/14/12 14:04	JGH	95-95-4	1
2,4,6-Trichlorophenol	1,520	ug/kg	40	8270C	06/14/12 14:04	JGH	88-06-2	1
Organics - Volatiles								
1,4-Dioxane	32,000	ug/kg	7,000	8260B	06/14/12 15:00	WAT	123-91-1	2
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	4,060	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	76-13-1	3
Acetone	1,960	ug/kg	740	5035/8260B	06/14/12 15:00	WAT	67-64-1	3
Carbon disulfide	3,570	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	75-15-0	3
Methyl Acetate	2,770	ug/kg	740	5035/8260B	06/14/12 15:00	WAT	79-20-9	3
tert-Methyl butyl ether (MTBE)	3,080	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	1634-04-4	3
2-Butanone (MEK)	1,960	ug/kg	740	5035/8260B	06/14/12 15:00	WAT	78-93-3	3
Dichlorodifluoromethane	3,910	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	75-71-8	3
Chloromethane	4,010	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	74-87-3	3
Vinyl chloride	4,030	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	75-01-4	3
Bromomethane	3,680	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	74-83-9	3
Chloroethane	3,910	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	75-00-3	3
Trichlorofluoromethane	4,250	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	75-69-4	3
1,1-Dichloroethene	3,530	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	75-35-4	3
Methylene chloride	3,250	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	75-09-2	3
trans-1,2-Dichloroethene	3,600	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	156-60-5	3
1,1-Dichloroethane	3,510	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	75-34-3	3
cis-1,2-Dichloroethene	3,490	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	156-59-2	3
Chloroform	3,440	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	67-66-3	3
1,1,1-Trichloroethane	3,820	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	71-55-6	3
Cyclohexane	3,610	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	110-82-7	3
4-Methyl-2-pentanone (MIBK)	2,770	ug/kg	740	5035/8260B	06/14/12 15:00	WAT	108-10-1	3
2-Hexanone	2,170	ug/kg	740	5035/8260B	06/14/12 15:00	WAT	591-78-6	3
Carbon tetrachloride	4,060	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	56-23-5	3
Benzene	3,700	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	71-43-2	3
1,2-Dichloroethane	3,330	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	107-06-2	3
Trichloroethene	3,800	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	79-01-6	3
1,2-Dichloropropane	3,620	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	78-87-5	3
Bromodichloromethane	3,630	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	75-27-4	3
Methyl cyclohexane	4,160	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	108-87-2	3
cis-1,3-Dichloropropene	3,720	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	10061-01-5	3
Toluene	3,840	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	108-88-3	3
trans-1,3-Dichloropropene	3,650	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	10061-02-6	3
1,1,2-Trichloroethane	3,380	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	79-00-5	3
Tetrachloroethene	3,730	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	127-18-4	3

1-Spiked at 1.67mg/kg

2-Spiked at 20mg/kg

3-Spiked at 2.5mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.19 (continued)
Sample Tag: SB-A5.1-MB142_16-17 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Dibromochloromethane	3,590	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	124-48-1	1
1,2-Dibromoethane	3,400	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	106-93-4	1
Chlorobenzene	3,690	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	108-90-7	1
1,1,2,2-Tetrachloroethane	3,280	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	79-34-5	1
Ethylbenzene	3,920	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	100-41-4	1
p,m-Xylene	7,900	ug/kg	100	5035/8260B	06/14/12 15:00	WAT		1
o-Xylene	3,890	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	95-47-6	1
Styrene	3,780	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	100-42-5	1
Isopropylbenzene	3,980	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	98-82-8	1
Bromoform	3,200	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	75-25-2	1
1,3-Dichlorobenzene	3,840	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	541-73-1	1
1,4-Dichlorobenzene	3,680	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	106-46-7	1
1,2-Dichlorobenzene	3,640	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	95-50-1	1
1,2-Dibromo-3-chloropropane	3,340	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	96-12-8	1
1,2,4-Trichlorobenzene	3,830	ug/kg	70	5035/8260B	06/14/12 15:00	WAT	120-82-1	1

1-Spiked at 2.5mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.20
Sample Tag: SB-A5.1-MT126_1-2
Collected Date/Time: 06/06/2012 13:31
Matrix: Soil
COC Reference: 69065

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 10:29	CCM		
Mercury Digestion	Completed			7471A	06/12/12 09:45	JRH		
Metal Digestion	Completed			3050B	06/14/12 09:00	PER		

Inorganics

Total Solids	92	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/14/12 14:00	PER	7440-36-0	
Arsenic	1.32	mg/kg	0.10	6020	06/14/12 14:00	PER	7440-38-2	
Barium	19.4	mg/kg	1.0	6020	06/14/12 14:00	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/14/12 14:00	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/14/12 14:00	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/14/12 14:00	PER	7440-43-9	
Chromium	1.39	mg/kg	0.20	6020	06/14/12 14:00	PER	7440-47-3	
Cobalt	5.18	mg/kg	0.20	6020	06/14/12 14:00	PER	7440-48-4	
Copper	4.79	mg/kg	0.20	6020	06/14/12 14:00	PER	7440-50-8	
Lead	6.63	mg/kg	0.20	6020	06/14/12 14:00	PER	7439-92-1	
Manganese	212	mg/kg	0.20	6020	06/14/12 14:00	PER	7439-96-5	
Mercury	0.0080	mg/kg	0.0054	7471A	06/12/12 14:53	JRT	7439-97-6	
Nickel	4.78	mg/kg	0.20	6020	06/14/12 14:00	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/14/12 14:00	PER	7782-49-2	
Silver	0.35	mg/kg	0.10	6020	06/14/12 14:00	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/14/12 14:00	PER	7440-28-0	
Vanadium	2.06	mg/kg	0.20	6020	06/14/12 14:00	PER	7440-62-2	
Zinc	7.28	mg/kg	1.0	6020	06/14/12 14:00	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/14/12 03:53	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.20 (continued)

Sample Tag: SB-A5.1-MT126_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/14/12 03:53	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/14/12 03:53	JGH	84-66-2	
Dimethyl phthalate	70	ug/kg	40	8270C	06/14/12 03:53	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/14/12 03:53	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/14/12 03:53	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/14/12 03:53	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.20 (continued)

Sample Tag: SB-A5.1-MT126_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 03:53	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	8,000	8260B	06/14/12 02:46	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	76-13-1	
Acetone	Not detected	ug/kg	800	5035/8260B	06/14/12 02:46	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	800	5035/8260B	06/14/12 02:46	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	800	5035/8260B	06/14/12 02:46	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	156-59-2	
Chloroform	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	800	5035/8260B	06/14/12 02:46	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	800	5035/8260B	06/14/12 02:46	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	56-23-5	
Benzene	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	10061-01-5	
Toluene	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	200	5035/8260B	06/14/12 02:46	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.20 (continued)

Sample Tag: SB-A5.1-MT126_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	95-47-6	
Styrene	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	98-82-8	
Bromoform	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 02:46	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.21

Sample Tag: SB-A5.1-MT126_5.5-6.5

Collected Date/Time: 06/06/2012 14:00

Matrix: Soil

COC Reference: 69065

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 10:29	CCM		
Mercury Digestion	Completed			7471A	06/12/12 09:45	JRH		
Metal Digestion	Completed			3050B	06/14/12 09:00	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/14/12 14:02	PER	7440-36-0	
Arsenic	0.41	mg/kg	0.10	6020	06/14/12 14:02	PER	7440-38-2	
Barium	17.8	mg/kg	1.0	6020	06/14/12 14:02	PER	7440-39-3	
Beryllium	0.23	mg/kg	0.20	6020	06/14/12 14:02	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/14/12 14:02	PER	7440-42-8	
Cadmium	0.12	mg/kg	0.10	6020	06/14/12 14:02	PER	7440-43-9	
Chromium	2.45	mg/kg	0.20	6020	06/14/12 14:02	PER	7440-47-3	
Cobalt	1.84	mg/kg	0.20	6020	06/14/12 14:02	PER	7440-48-4	
Copper	5.13	mg/kg	0.20	6020	06/14/12 14:02	PER	7440-50-8	
Lead	14.9	mg/kg	0.20	6020	06/14/12 14:02	PER	7439-92-1	
Manganese	153	mg/kg	0.20	6020	06/14/12 14:02	PER	7439-96-5	
Mercury	0.0067	mg/kg	0.0061	7471A	06/12/12 14:55	JRT	7439-97-6	
Nickel	3.25	mg/kg	0.20	6020	06/14/12 14:02	PER	7440-02-0	
Selenium	0.22	mg/kg	0.20	6020	06/14/12 14:02	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/14/12 14:02	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/14/12 14:02	PER	7440-28-0	
Vanadium	6.70	mg/kg	0.20	6020	06/14/12 14:02	PER	7440-62-2	
Zinc	9.16	mg/kg	1.0	6020	06/14/12 14:02	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	1,600	ug/kg	600	8270C	06/15/12 13:25	JGH	83-32-9	Y
Acenaphthylene	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	208-96-8	Y
Acetophenone	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	98-86-2	Y
Anthracene	3,000	ug/kg	600	8270C	06/15/12 13:25	JGH	120-12-7	Y
Atrazine	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	1912-24-9	Y
1,1'-Biphenyl	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	92-52-4	Y
4-Bromophenyl phenyl ether	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	101-55-3	Y
di-n-Butyl phthalate	Not detected	ug/kg	1,000	8270C	06/15/12 13:25	JGH	84-74-2	Y
Benzaldehyde	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	100-52-7	Y
Benzo(a)anthracene	50,700	ug/kg	600	8270C	06/15/12 13:25	JGH	56-55-3	Y
Benzo(a)pyrene	60,000	ug/kg	600	8270C	06/15/12 13:25	JGH	50-32-8	Y
Benzo(b)fluoranthene	118,600	ug/kg	600	8270C	06/15/12 13:25	JGH	205-99-2	pY

Y-Elevated reporting limit due to high target concentration

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.21 (continued)

Sample Tag: SB-A5.1-MT126_5.5-6.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	25,300	ug/kg	600	8270C	06/15/12 13:25	JGH	191-24-2	Y
Benzo(k)fluoranthene	121,900	ug/kg	600	8270C	06/15/12 13:25	JGH	207-08-9	pY
Butyl benzyl phthalate	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	85-68-7	Y
2-Chloronaphthalene	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	91-58-7	Y
2-Chlorophenol	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	95-57-8	Y
4-Chloro-3-methylphenol	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	59-50-7	Y
4-Chloroaniline	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	106-47-8	Y
4-Chlorophenyl phenyl ether	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	7005-72-3	Y
Caprolactam	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	105-60-2	Y
Carbazole	4,400	ug/kg	600	8270C	06/15/12 13:25	JGH	86-74-8	Y
bis(2-Chloroethoxy)methane	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	111-91-1	Y
bis(2-Chloroethyl)ether	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	111-44-4	Y
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	108-60-1	Y
Chrysene	58,800	ug/kg	600	8270C	06/15/12 13:25	JGH	218-01-9	Y
2,4-Dichlorophenol	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	120-83-2	Y
2,4-Dimethylphenol	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	105-67-9	Y
2,4-Dinitrophenol	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	51-28-5	Y
2,4-Dinitrotoluene	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	121-14-2	Y
2,6-Dinitrotoluene	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	606-20-2	Y
3,3'-Dichlorobenzidine	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	91-94-1	Y
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	534-52-1	Y
Dibenzo(ah)anthracene	12,000	ug/kg	1,000	8270C	06/15/12 13:25	JGH	53-70-3	Y
Dibenzofuran	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	132-64-9	Y
Diethyl phthalate	Not detected	ug/kg	1,000	8270C	06/15/12 13:25	JGH	84-66-2	Y
Dimethyl phthalate	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	131-11-3	Y
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	1,000	8270C	06/15/12 13:25	JGH	117-81-7	Y
Fluoranthene	67,600	ug/kg	600	8270C	06/15/12 13:25	JGH	206-44-0	Y
Fluorene	1,200	ug/kg	600	8270C	06/15/12 13:25	JGH	86-73-7	Y
Hexachlorobenzene	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	118-74-1	Y
Hexachlorobutadiene	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	87-68-3	Y
Hexachlorocyclopentadiene	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	77-47-4	Y
Hexachloroethane	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	67-72-1	Y
Indeno(1,2,3-cd)pyrene	25,900	ug/kg	600	8270C	06/15/12 13:25	JGH	193-39-5	Y
Isophorone	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	78-59-1	Y
2-Methylnaphthalene	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	91-57-6	Y
2-Methylphenol	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	95-48-7	Y
3-, 4-Methylphenol	Not detected	ug/kg	1,000	8270C	06/15/12 13:25	JGH	3/4-Cresol	Y
2-Nitroaniline	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	88-74-4	Y
2-Nitrophenol	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	88-75-5	Y
3-Nitroaniline	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	99-09-2	Y
4-Nitroaniline	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	100-01-6	Y
4-Nitrophenol	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	100-02-7	Y
N-Nitrosodi-n-propylamine	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	621-64-7	Y
N-Nitrosodiphenylamine	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	86-30-6	Y
Naphthalene	900	ug/kg	600	8270C	06/15/12 13:25	JGH	91-20-3	Y
Nitrobenzene	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	98-95-3	Y
di-n-Octyl phthalate	Not detected	ug/kg	1,000	8270C	06/15/12 13:25	JGH	117-84-0	Y

Y-Elevated reporting limit due to high target concentration

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.21 (continued)

Sample Tag: SB-A5.1-MT126_5.5-6.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pentachlorophenol	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	87-86-5	Y
Phenanthrene	16,800	ug/kg	600	8270C	06/15/12 13:25	JGH	85-01-8	Y
Phenol	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	108-95-2	Y
Pyrene	64,200	ug/kg	600	8270C	06/15/12 13:25	JGH	129-00-0	Y
2,4,5-Trichlorophenol	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	95-95-4	Y
2,4,6-Trichlorophenol	Not detected	ug/kg	600	8270C	06/15/12 13:25	JGH	88-06-2	Y
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/14/12 03:06	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	76-13-1	
Acetone	Not detected	ug/kg	740	5035/8260B	06/14/12 03:06	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	740	5035/8260B	06/14/12 03:06	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	740	5035/8260B	06/14/12 03:06	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	156-60-5	
1,1-Dichloroethane	80	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	740	5035/8260B	06/14/12 03:06	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	740	5035/8260B	06/14/12 03:06	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	108-90-7	

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.21 (continued)

Sample Tag: SB-A5.1-MT126_5.5-6.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/14/12 03:06	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:06	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.22
Sample Tag: SB-A5.1-DUP85
Collected Date/Time: 06/06/2012 00:01
Matrix: Soil
COC Reference: 69065

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 17:05	CCM		
Mercury Digestion	Completed			7471A	06/12/12 09:45	JRH		
Metal Digestion	Completed			3050B	06/14/12 09:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/14/12 14:04	PER	7440-36-0	
Arsenic	0.32	mg/kg	0.10	6020	06/14/12 14:04	PER	7440-38-2	
Barium	22.9	mg/kg	1.0	6020	06/14/12 14:04	PER	7440-39-3	
Beryllium	0.29	mg/kg	0.20	6020	06/14/12 14:04	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/14/12 14:04	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/14/12 14:04	PER	7440-43-9	
Chromium	2.55	mg/kg	0.20	6020	06/14/12 14:04	PER	7440-47-3	
Cobalt	2.08	mg/kg	0.20	6020	06/14/12 14:04	PER	7440-48-4	
Copper	5.83	mg/kg	0.20	6020	06/14/12 14:04	PER	7440-50-8	
Lead	14.3	mg/kg	0.20	6020	06/14/12 14:04	PER	7439-92-1	
Manganese	74.3	mg/kg	0.20	6020	06/14/12 14:04	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0055	7471A	06/12/12 14:57	JRT	7439-97-6	
Nickel	3.00	mg/kg	0.20	6020	06/14/12 14:04	PER	7440-02-0	
Selenium	0.21	mg/kg	0.20	6020	06/14/12 14:04	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/14/12 14:04	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/14/12 14:04	PER	7440-28-0	
Vanadium	6.33	mg/kg	0.20	6020	06/14/12 14:04	PER	7440-62-2	
Zinc	10.7	mg/kg	1.0	6020	06/14/12 14:04	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	98-86-2	
Anthracene	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	120-12-7	
Atrazine	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	300	8270C	06/14/12 19:48	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	100-52-7	
Benzo(a)anthracene	1,500	ug/kg	100	8270C	06/14/12 19:48	JGH	56-55-3	
Benzo(a)pyrene	1,700	ug/kg	100	8270C	06/14/12 19:48	JGH	50-32-8	
Benzo(b)fluoranthene	3,400	ug/kg	100	8270C	06/14/12 19:48	JGH	205-99-2	p

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.22 (continued)

Sample Tag: SB-A5.1-DUP85

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	700	ug/kg	100	8270C	06/14/12 19:48	JGH	191-24-2	
Benzo(k)fluoranthene	3,400	ug/kg	100	8270C	06/14/12 19:48	JGH	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	105-60-2	
Carbazole	200	ug/kg	100	8270C	06/14/12 19:48	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	108-60-1	
Chrysene	1,900	ug/kg	100	8270C	06/14/12 19:48	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	534-52-1	
Dibenzo(ah)anthracene	300	ug/kg	300	8270C	06/14/12 19:48	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	300	8270C	06/14/12 19:48	JGH	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	300	8270C	06/14/12 19:48	JGH	117-81-7	
Fluoranthene	2,100	ug/kg	100	8270C	06/14/12 19:48	JGH	206-44-0	
Fluorene	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	700	ug/kg	100	8270C	06/14/12 19:48	JGH	193-39-5	
Isophorone	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	300	8270C	06/14/12 19:48	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	300	8270C	06/14/12 19:48	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	87-86-5	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.22 (continued)

Sample Tag: SB-A5.1-DUP85

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenanthrene	800	ug/kg	100	8270C	06/14/12 19:48	JGH	85-01-8	
Phenol	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	108-95-2	
Pyrene	1,900	ug/kg	100	8270C	06/14/12 19:48	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	100	8270C	06/14/12 19:48	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	8,000	8260B	06/14/12 03:25	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	76-13-1	
Acetone	Not detected	ug/kg	820	5035/8260B	06/14/12 03:25	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	820	5035/8260B	06/14/12 03:25	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	820	5035/8260B	06/14/12 03:25	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	156-59-2	
Chloroform	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	820	5035/8260B	06/14/12 03:25	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	820	5035/8260B	06/14/12 03:25	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	56-23-5	
Benzene	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	10061-01-5	
Toluene	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	100-41-4	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.22 (continued)

Sample Tag: SB-A5.1-DUP85

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
p,m-Xylene	Not detected	ug/kg	200	5035/8260B	06/14/12 03:25	WAT		
o-Xylene	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	95-47-6	
Styrene	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	98-82-8	
Bromoform	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 03:25	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.23

Sample Tag: SB-A5.1-MT126_16-17

Collected Date/Time: 06/06/2012 14:05

Matrix: Soil

COC Reference: 69065

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 17:05	CCM		
Mercury Digestion	Completed			7471A	06/12/12 09:45	JRH		
Metal Digestion	Completed			3050B	06/14/12 09:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/14/12 14:06	PER	7440-36-0	
Arsenic	0.63	mg/kg	0.10	6020	06/14/12 14:06	PER	7440-38-2	
Barium	27.2	mg/kg	1.0	6020	06/14/12 14:06	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/14/12 14:06	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/14/12 14:06	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/14/12 14:06	PER	7440-43-9	
Chromium	3.38	mg/kg	0.21	6020	06/14/12 14:06	PER	7440-47-3	
Cobalt	2.94	mg/kg	0.21	6020	06/14/12 14:06	PER	7440-48-4	
Copper	10.4	mg/kg	0.21	6020	06/14/12 14:06	PER	7440-50-8	
Lead	5.13	mg/kg	0.21	6020	06/14/12 14:06	PER	7439-92-1	
Manganese	255	mg/kg	0.21	6020	06/14/12 14:06	PER	7439-96-5	
Mercury	0.0096	mg/kg	0.0056	7471A	06/12/12 14:59	JRT	7439-97-6	
Nickel	8.79	mg/kg	0.21	6020	06/14/12 14:06	PER	7440-02-0	
Selenium	0.24	mg/kg	0.21	6020	06/14/12 14:06	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/14/12 14:06	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/14/12 14:06	PER	7440-28-0	
Vanadium	5.45	mg/kg	0.21	6020	06/14/12 14:06	PER	7440-62-2	
Zinc	13.6	mg/kg	1.0	6020	06/14/12 14:06	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/14/12 15:02	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.23 (continued)

Sample Tag: SB-A5.1-MT126_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/14/12 15:02	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/14/12 15:02	JGH	84-66-2	
Dimethyl phthalate	60	ug/kg	40	8270C	06/14/12 15:02	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/14/12 15:02	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/14/12 15:02	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/14/12 15:02	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.23 (continued)

Sample Tag: SB-A5.1-MT126_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 15:02	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/14/12 03:44	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	76-13-1	
Acetone	Not detected	ug/kg	700	5035/8260B	06/14/12 03:44	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	700	5035/8260B	06/14/12 03:44	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	700	5035/8260B	06/14/12 03:44	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	700	5035/8260B	06/14/12 03:44	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	700	5035/8260B	06/14/12 03:44	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/14/12 03:44	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.23 (continued)

Sample Tag: SB-A5.1-MT126_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 03:44	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.24
Sample Tag: SB-A5.1-MT119_1-2
Collected Date/Time: 06/06/2012 14:30
Matrix: Soil
COC Reference: 69065

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 17:05	CCM		
Mercury Digestion	Completed			7471A	06/12/12 09:45	JRH		
Metal Digestion	Completed			3050B	06/14/12 09:00	PER		

Inorganics

Total Solids	94	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/14/12 14:08	PER	7440-36-0	
Arsenic	0.75	mg/kg	0.10	6020	06/14/12 14:08	PER	7440-38-2	
Barium	20.0	mg/kg	1.0	6020	06/14/12 14:08	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/14/12 14:08	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/14/12 14:08	PER	7440-42-8	
Cadmium	0.16	mg/kg	0.10	6020	06/14/12 14:08	PER	7440-43-9	
Chromium	3.44	mg/kg	0.20	6020	06/14/12 14:08	PER	7440-47-3	
Cobalt	56.8	mg/kg	0.20	6020	06/14/12 14:08	PER	7440-48-4	
Copper	7.64	mg/kg	0.20	6020	06/14/12 14:08	PER	7440-50-8	
Lead	7.66	mg/kg	0.20	6020	06/14/12 14:08	PER	7439-92-1	
Manganese	86.1	mg/kg	0.20	6020	06/14/12 14:08	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0053	7471A	06/12/12 15:02	JRT	7439-97-6	
Nickel	3.55	mg/kg	0.20	6020	06/14/12 14:08	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/14/12 14:08	PER	7782-49-2	
Silver	4.83	mg/kg	0.10	6020	06/14/12 14:08	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/14/12 14:08	PER	7440-28-0	
Vanadium	1.69	mg/kg	0.20	6020	06/14/12 14:08	PER	7440-62-2	
Zinc	18.1	mg/kg	1.0	6020	06/14/12 14:08	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	98-86-2	
Anthracene	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	120-12-7	
Atrazine	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	100	8270C	06/15/12 12:55	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.24 (continued)

Sample Tag: SB-A5.1-MT119_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	105-60-2	
Carbazole	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	108-60-1	
Chrysene	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	100	8270C	06/15/12 12:55	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	100	8270C	06/15/12 12:55	JGH	84-66-2	
Dimethyl phthalate	100	ug/kg	70	8270C	06/15/12 12:55	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	100	8270C	06/15/12 12:55	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	206-44-0	
Fluorene	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	193-39-5	
Isophorone	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	100	8270C	06/15/12 12:55	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	100	8270C	06/15/12 12:55	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.24 (continued)

Sample Tag: SB-A5.1-MT119_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	108-95-2	
Pyrene	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	70	8270C	06/15/12 12:55	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/14/12 04:04	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	76-13-1	
Acetone	Not detected	ug/kg	560	5035/8260B	06/14/12 04:04	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	75-15-0	
Methyl Acetate	820	ug/kg	560	5035/8260B	06/14/12 04:04	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	560	5035/8260B	06/14/12 04:04	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	560	5035/8260B	06/14/12 04:04	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	560	5035/8260B	06/14/12 04:04	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/14/12 04:04	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.24 (continued)

Sample Tag: SB-A5.1-MT119_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:04	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.25
Sample Tag: SB-A5.1-MT126-11-15
Collected Date/Time: 06/06/2012 14:19
Matrix: Groundwater
COC Reference: 69065

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.3	IR
2	40ml Glass	HCL	Yes	4.3	IR
1	125ml Plastic	HNO3	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	06/08/12 18:58	EMR		
Mercury Digestion	Completed			7471A	06/08/12 12:00	JRH		
Metal Digestion	Completed			3015A	06/07/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:55	SLS	7440-36-0	
Arsenic, Dissolved	0.008	mg/L	0.002	6020	06/07/12 00:55	SLS	7440-38-2	
Barium, Dissolved	0.122	mg/L	0.010	6020	06/07/12 00:55	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 00:55	SLS	7440-41-7	
Boron, Dissolved	0.56	mg/L	0.04	6020	06/07/12 00:55	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 00:55	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:55	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:55	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:55	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:55	SLS	7439-92-1	
Manganese, Dissolved	0.639	mg/L	0.010	6020	06/07/12 00:55	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	06/08/12 15:04	JRT	7439-97-6	
Nickel, Dissolved	0.011	mg/L	0.010	6020	06/07/12 00:55	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:55	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	06/07/12 00:55	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:55	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 00:55	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 00:55	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/13/12 12:59	JGH	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/13/12 12:59	JGH	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	83-32-9	
Acenaphthylene	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	208-96-8	
Acetophenone	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	98-86-2	
Anthracene	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	120-12-7	
Atrazine	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	84-74-2	
Benzaldehyde	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	205-99-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.25 (continued)

Sample Tag: SB-A5.1-MT126-11-15

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	8270C	06/13/12 23:48	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	7005-72-3	
Caprolactam	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	105-60-2	
Carbazole	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	108-60-1	
Chrysene	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	53-70-3	
Dibenzofuran	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	8270C	06/13/12 23:48	JGH	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	8270C	06/13/12 23:48	JGH	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	06/13/12 23:48	JGH	117-81-7	
Fluoranthene	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	206-44-0	
Fluorene	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	77-47-4	
Hexachloroethane	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	193-39-5	
Isophorone	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	91-57-6	
2-Methylphenol	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	86-30-6	
Naphthalene	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	91-20-3	
Nitrobenzene	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	87-86-5	
Phenanthrene	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	85-01-8	
Phenol	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	108-95-2	
Pyrene	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	129-00-0	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.25 (continued)

Sample Tag: SB-A5.1-MT126-11-15

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	06/13/12 23:48	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	06/28/12 17:29	JGH	123-91-1	1F
1,4-Dioxane	Not detected	ug/L	100	8260B	06/11/12 16:49	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	06/11/12 16:49	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	06/11/12 16:49	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	06/11/12 16:49	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	75-69-4	
1,1-Dichloroethene	3	ug/L	1	8260B	06/11/12 16:49	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	156-60-5	
1,1-Dichloroethane	13	ug/L	1	8260B	06/11/12 16:49	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	06/11/12 16:49	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	06/11/12 16:49	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/11/12 16:49	WAT		

1-Analysis performed outside of holding time per client request. F-Analysis run outside of holding time



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.25 (continued)

Sample Tag: SB-A5.1-MT126-11-15

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	06/11/12 16:49	WAT	96-12-8	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.26
Sample Tag: SB-A5.1-MT119_5-6
Collected Date/Time: 06/06/2012 15:20
Matrix: Soil
COC Reference: 69065

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.3	IR
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 17:05	CCM		
Mercury Digestion	Completed			7471A	06/12/12 09:45	JRH		
Metal Digestion	Completed			3050B	06/14/12 09:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/14/12 14:09	PER	7440-36-0	
Arsenic	0.19	mg/kg	0.10	6020	06/14/12 14:09	PER	7440-38-2	
Barium	7.17	mg/kg	1.0	6020	06/14/12 14:09	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/14/12 14:09	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/14/12 14:09	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/14/12 14:09	PER	7440-43-9	
Chromium	0.43	mg/kg	0.20	6020	06/14/12 14:09	PER	7440-47-3	
Cobalt	0.41	mg/kg	0.20	6020	06/14/12 14:09	PER	7440-48-4	
Copper	1.11	mg/kg	0.20	6020	06/14/12 14:09	PER	7440-50-8	
Lead	6.92	mg/kg	0.20	6020	06/14/12 14:09	PER	7439-92-1	
Manganese	67.3	mg/kg	0.20	6020	06/14/12 14:09	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0057	7471A	06/12/12 15:04	JRT	7439-97-6	
Nickel	0.91	mg/kg	0.20	6020	06/14/12 14:09	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/14/12 14:09	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/14/12 14:09	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/14/12 14:09	PER	7440-28-0	
Vanadium	0.92	mg/kg	0.20	6020	06/14/12 14:09	PER	7440-62-2	
Zinc	1.77	mg/kg	1.0	6020	06/14/12 14:09	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	98-86-2	
Anthracene	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	120-12-7	
Atrazine	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	100	8270C	06/14/12 19:13	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	100-52-7	
Benzo(a)anthracene	420	ug/kg	70	8270C	06/14/12 19:13	JGH	56-55-3	
Benzo(a)pyrene	470	ug/kg	70	8270C	06/14/12 19:13	JGH	50-32-8	
Benzo(b)fluoranthene	880	ug/kg	70	8270C	06/14/12 19:13	JGH	205-99-2	p

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.26 (continued)

Sample Tag: SB-A5.1-MT119_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	210	ug/kg	70	8270C	06/14/12 19:13	JGH	191-24-2	
Benzo(k)fluoranthene	870	ug/kg	70	8270C	06/14/12 19:13	JGH	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	105-60-2	
Carbazole	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	108-60-1	
Chrysene	510	ug/kg	70	8270C	06/14/12 19:13	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	100	8270C	06/14/12 19:13	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	100	8270C	06/14/12 19:13	JGH	84-66-2	
Dimethyl phthalate	120	ug/kg	70	8270C	06/14/12 19:13	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	100	8270C	06/14/12 19:13	JGH	117-81-7	
Fluoranthene	620	ug/kg	70	8270C	06/14/12 19:13	JGH	206-44-0	
Fluorene	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	190	ug/kg	70	8270C	06/14/12 19:13	JGH	193-39-5	
Isophorone	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	100	8270C	06/14/12 19:13	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	100	8270C	06/14/12 19:13	JGH	117-84-0	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.26 (continued)

Sample Tag: SB-A5.1-MT119_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pentachlorophenol	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	87-86-5	
Phenanthrene	240	ug/kg	70	8270C	06/14/12 19:13	JGH	85-01-8	
Phenol	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	108-95-2	
Pyrene	580	ug/kg	70	8270C	06/14/12 19:13	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	70	8270C	06/14/12 19:13	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	8,000	8260B	06/14/12 04:23	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	76-13-1	
Acetone	Not detected	ug/kg	780	5035/8260B	06/14/12 04:23	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	780	5035/8260B	06/14/12 04:23	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	780	5035/8260B	06/14/12 04:23	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	156-59-2	
Chloroform	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	780	5035/8260B	06/14/12 04:23	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	780	5035/8260B	06/14/12 04:23	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	56-23-5	
Benzene	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	10061-01-5	
Toluene	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	79-34-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.26 (continued)

Sample Tag: SB-A5.1-MT119_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	200	5035/8260B	06/14/12 04:23	WAT		
o-Xylene	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	95-47-6	
Styrene	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	98-82-8	
Bromoform	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	80	5035/8260B	06/14/12 04:23	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.27
Sample Tag: SB-A5.1-MT119_15-19
Collected Date/Time: 06/06/2012 15:35
Matrix: Groundwater
COC Reference: 69065

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.3	IR
2	40ml Glass	HCL	Yes	4.3	IR
1	125ml Plastic	HNO3	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	06/08/12 18:58	EMR		
Mercury Digestion	Completed			7471A	06/08/12 12:00	JRH		
Metal Digestion	Completed			3015A	06/07/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 01:00	SLS	7440-36-0	
Arsenic, Dissolved	0.010	mg/L	0.002	6020	06/07/12 01:00	SLS	7440-38-2	
Barium, Dissolved	0.215	mg/L	0.010	6020	06/07/12 01:00	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 01:00	SLS	7440-41-7	
Boron, Dissolved	0.27	mg/L	0.04	6020	06/07/12 01:00	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	06/07/12 01:00	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 01:00	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 01:00	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 01:00	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 01:00	SLS	7439-92-1	
Manganese, Dissolved	0.329	mg/L	0.010	6020	06/07/12 01:00	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	06/08/12 15:06	JRT	7439-97-6	
Nickel, Dissolved	0.011	mg/L	0.010	6020	06/07/12 01:00	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 01:00	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	06/07/12 01:00	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 01:00	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	06/07/12 01:00	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	06/07/12 01:00	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/13/12 14:28	JGH	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/13/12 14:28	JGH	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	83-32-9	1
Acenaphthylene	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	208-96-8	1
Acetophenone	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	98-86-2	1
Anthracene	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	120-12-7	S1
Atrazine	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	1912-24-9	S1
1,1'-Biphenyl	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	92-52-4	1
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	101-55-3	S1
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	84-74-2	S1
Benzaldehyde	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	100-52-7	1
Benzo(a)anthracene	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	56-55-3	1

1-No sample available for re-extraction
S-Surrogate recovery outside of control limits



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.27 (continued)

Sample Tag: SB-A5.1-MT119_15-19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(a)pyrene	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	50-32-8	1
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	205-99-2	1
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	191-24-2	1
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	207-08-9	1
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	85-68-7	1
2-Chloronaphthalene	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	91-58-7	1
2-Chlorophenol	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	95-57-8	1
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	59-50-7	1
4-Chloroaniline	Not detected	ug/L	2	8270C	06/14/12 01:33	JGH	106-47-8	1
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	7005-72-3	1
Caprolactam	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	105-60-2	1
Carbazole	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	86-74-8	S1
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	111-91-1	1
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	111-44-4	1
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	108-60-1	1
Chrysene	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	218-01-9	1
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	120-83-2	1
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	105-67-9	1
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	51-28-5	1
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	121-14-2	1
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	606-20-2	1
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	534-52-1	S1
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	53-70-3	1
Dibenzofuran	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	132-64-9	1
Diethyl phthalate	Not detected	ug/L	2	8270C	06/14/12 01:33	JGH	84-66-2	1
Dimethyl phthalate	Not detected	ug/L	2	8270C	06/14/12 01:33	JGH	131-11-3	1
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	06/14/12 01:33	JGH	117-81-7	1
Fluoranthene	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	206-44-0	S1
Fluorene	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	86-73-7	1
Hexachlorobutadiene	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	87-68-3	1
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	77-47-4	1
Hexachloroethane	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	67-72-1	1
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	193-39-5	1
Isophorone	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	78-59-1	1
2-Methylnaphthalene	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	91-57-6	1
2-Methylphenol	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	95-48-7	1
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	3/4-Cresol	1
2-Nitroaniline	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	88-74-4	1
2-Nitrophenol	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	88-75-5	1
3-Nitroaniline	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	99-09-2	1
4-Nitroaniline	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	100-01-6	1
4-Nitrophenol	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	100-02-7	1
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	621-64-7	1
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	86-30-6	S1
Naphthalene	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	91-20-3	1
Nitrobenzene	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	98-95-3	1
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	117-84-0	1

1-No sample available for re-extraction

S-Surrogate recovery outside of control limits



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.27 (continued)

Sample Tag: SB-A5.1-MT119_15-19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Pentachlorophenol	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	87-86-5	S1
Phenanthrene	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	85-01-8	S1
Phenol	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	108-95-2	1
Pyrene	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	129-00-0	1
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	95-95-4	1
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	06/14/12 01:33	JGH	88-06-2	1
Organics - Volatiles								
1,4-Dioxane	6	ug/L	5	8260B - SIM	06/28/12 17:47	JGH	123-91-1	2F
1,4-Dioxane	Not detected	ug/L	100	8260B	06/11/12 16:27	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	76-13-1	
Acetone	Not detected	ug/L	10	8260B	06/11/12 16:27	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	06/11/12 16:27	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	2	ug/L	1	8260B	06/11/12 16:27	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	8260B	06/11/12 16:27	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	75-69-4	
1,1-Dichloroethene	1	ug/L	1	8260B	06/11/12 16:27	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	06/11/12 16:27	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	8260B	06/11/12 16:27	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	124-48-1	

S-Surrogate recovery outside of control limits 1-No sample available for re-extraction

2-Analysis performed outside of holding time per client request. F-Analysis run outside of holding time



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.27 (continued)

Sample Tag: SB-A5.1-MT119_15-19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/11/12 16:27	WAT		
o-Xylene	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	120-82-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	06/11/12 16:27	WAT	96-12-8	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.28

Sample Tag: SB-A5.1-MT119_20-21

Collected Date/Time: 06/06/2012 15:25

Matrix: Soil

COC Reference: 69065

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.3	IR
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/08/12 17:05	CCM		
Mercury Digestion	Completed			7471A	06/12/12 09:45	JRH		
Metal Digestion	Completed			3050B	06/14/12 09:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	06/11/12 11:30	JRH		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/14/12 14:11	PER	7440-36-0	
Arsenic	0.84	mg/kg	0.10	6020	06/14/12 14:11	PER	7440-38-2	
Barium	33.2	mg/kg	1.0	6020	06/14/12 14:11	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/14/12 14:11	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/14/12 14:11	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/14/12 14:11	PER	7440-43-9	
Chromium	3.72	mg/kg	0.21	6020	06/14/12 14:11	PER	7440-47-3	
Cobalt	2.39	mg/kg	0.21	6020	06/14/12 14:11	PER	7440-48-4	
Copper	9.22	mg/kg	0.21	6020	06/14/12 14:11	PER	7440-50-8	
Lead	3.99	mg/kg	0.21	6020	06/14/12 14:11	PER	7439-92-1	
Manganese	241	mg/kg	0.21	6020	06/14/12 14:11	PER	7439-96-5	
Mercury	0.0090	mg/kg	0.0056	7471A	06/12/12 15:06	JRT	7439-97-6	
Nickel	8.26	mg/kg	0.21	6020	06/14/12 14:11	PER	7440-02-0	
Selenium	0.22	mg/kg	0.21	6020	06/14/12 14:11	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/14/12 14:11	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/14/12 14:11	PER	7440-28-0	
Vanadium	4.30	mg/kg	0.21	6020	06/14/12 14:11	PER	7440-62-2	
Zinc	11.3	mg/kg	1.0	6020	06/14/12 14:11	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/14/12 15:32	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.28 (continued)

Sample Tag: SB-A5.1-MT119_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/14/12 15:32	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/14/12 15:32	JGH	84-66-2	
Dimethyl phthalate	70	ug/kg	40	8270C	06/14/12 15:32	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/14/12 15:32	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/14/12 15:32	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/14/12 15:32	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.28 (continued)

Sample Tag: SB-A5.1-MT119_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/14/12 15:32	JGH	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/14/12 04:42	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	76-13-1	
Acetone	Not detected	ug/kg	630	5035/8260B	06/14/12 04:42	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	630	5035/8260B	06/14/12 04:42	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	630	5035/8260B	06/14/12 04:42	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	630	5035/8260B	06/14/12 04:42	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	630	5035/8260B	06/14/12 04:42	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/14/12 04:42	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52779.28 (continued)

Sample Tag: SB-A5.1-MT119_20-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 04:42	WAT	120-82-1	

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C.O.C. PAGE #

1 OF 2

69066

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Randy Christensen			
COMPANY ARCADIS			
ADDRESS 10559 Citation Drive Suite 100			
CITY Brighton	STATE MI	ZIP CODE 48116	
PHONE NO. 810-225-1910	FAX NO.	P.O. NO. PO 125047	
E-MAIL ADDRESS randy.christensen@arcadis-us.com		QUOTE NO. Task# 5	

CONTACT NAME Dave Favero		☐ SAME
COMPANY RACER TRUST		
ADDRESS 2930 Ecorse Road		
CITY Ypsilanti	STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208	E-MAIL ADDRESS dfavero@racertrust.org	

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Lansing Plant 2 Project# B00644 792012			SAMPLER(S) - PLEASE PRINT/SIGN NAME Mexameckley / J. Smith										Certifications ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES										
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☒ OTHER 5 day FAT													Project Locations ☐ Detroit ☐ New York										
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER													☒ Other (Lansing)										
MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIFE A=AIR W=WASTE			# Containers & Preservatives										Special Instructions										
MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO3	H2SO4	NaOH	MeOH	OTHER	VOCs 1,4 Dioxane	SVOCs	PCBs	Metals (w/Hg)							
	DATE	TIME																					
52779.01	6/6/12	0850	SB-AS.1-MH142-1-2	S	2									X	X		X						
.02		0900	SB-AS.1-ME133-1-2	S	2									X	X		X						
.03		0915	SB-AS.1-ME138-5-6	S	2									X	X		X						
06/05/04		0940	SB-AS.1-ME138-15-16	S	2									X	X		X						MS/MSD
.7.05		0955	SB-AS.1-MH142-9-10	S	2									X	X		X						
.08		1008	SB-AS.1-MH142-16-17	S	2									X	X		X						
.09		1025	SB-AS.1-ME145-1-2	S	2									X	X		X						
.10.08		1049	SB-AS.1-ME145-5-6	S	2									X	X		X						
.11.09			SB-AS.1-DUP84	S	2									X	X		X						
.12.10		1055	SB-AS.1-ME145-9-10	S	2									X	X		X						
.13.11		1059	SB-AS.1-ME145-16-17	S	2									X	X		X						
.14.12			THP BLANK	L	1	X								X									

RELINQUISHED BY: Mexameckley	☒ Sampler	DATE 6-7-12	TIME 0930
SIGNATURE/ORGANIZATION: [Signature]		DATE 6-7-12	TIME 0930
RELINQUISHED BY: [Signature]		DATE	TIME
SIGNATURE/ORGANIZATION		DATE	TIME
RELINQUISHED BY:		DATE	TIME
SIGNATURE/ORGANIZATION		DATE	TIME

RELINQUISHED BY:	DATE	TIME
SIGNATURE/ORGANIZATION		
RELINQUISHED BY: [Signature]	DATE 07/24/12	TIME 0908
SIGNATURE/ORGANIZATION		
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
NOTES:		TEMP. ON ARRIVAL 4.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # 2 OF 2

69065

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME **Randy Christensen**

COMPANY **ARCADIS**

ADDRESS **10559 Citation Drive Suite 100**

CITY **Brighton** STATE **MI** ZIP CODE **48116**

PHONE NO. **810-225-1910** FAX NO. **PO 125047**

E-MAIL ADDRESS **randy.christensen@arcadis-us.com** QUOTE NO. **Task# 5**

CONTACT NAME **Dave Favero** ☐ SAME

COMPANY **RACER TRUST**

ADDRESS **2930 Ecorse Road**

CITY **Ypsilanti** STATE **MI** ZIP CODE **48198**

PHONE NO. **313-486-9208** E-MAIL ADDRESS **dfavero@racertrust.org**

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME **Lansing Plant 2 Project# B00644-79-2012 Megan Meckley**

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☒ OTHER **5 day TAT**

DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIFE A=AIR W=WASTE

Containers & Preservatives

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER				☒ Other <u>LANSING</u> Special Instructions		
	DATE	TIME																
52779	15	6/6/12	1135	SB-MB142-0-1	S	2					X		X	X	X			
	16		1156	JB-AS.1-MB142-7-8	S	2					X		X	X	X			
17/18/19			1216	SB SB-AS.1-MB142-16-17	S	6					X		X	X	X			ms/msb
	20		1331	SB-AS.1-MT126-1-2	S	2					X		X	X	X			
	21		1400	SB-AS.1-MT126-5.5-6.5	S	2					X		X	X	X			
	22			SB-AS.1-DUP85	S	2					X		X	X	X			
	23		1405	SB-AS.1-MT126-16-17	S	2					X		X	X	X			
	24		1430	SB-AS.1-MT119-1-2	S	2					X		X	X	X			
	25		1419	SB-AS.1-MT126-11-15	GW	4	X						X	X	X			metals, SVOCs + FF
	26		1520	SB-AS.1-MT126-5-6	S	2					X		X	X	X			metals, SVOCs + FF
	27		1535	JB-AS.1-MT126-15-19	GW	4	X						X	X	X			
	28		1525	SB-AS.1-MT126-20-21	S	2					X		X	X	X			

RELINQUISHED BY: **Megan Meckley** DATE **6-7-12** TIME **8:30**

RELINQUISHED BY: **Megan Meckley** DATE **6-7-12** TIME **8:30**

RELINQUISHED BY: **Megan Meckley** DATE **6-7-12** TIME **8:30**

RELINQUISHED BY: **Megan Meckley** DATE **6-7-12** TIME **8:30**

RELINQUISHED BY: **Andrew Ball** DATE **07-24-12** TIME **0908**

RELINQUISHED BY: **Andrew Ball** DATE **07-24-12** TIME **0908**

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL **4.3**

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1.15.12



Analytical Laboratory Report

Supplemental Report

Report ID: S52806.01(02)

Generated on 07/03/2012

Replaces report S52806.01(01) generated on 06/20/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52806.01-S52806.25

Project: Lansing Plant #2 Project# B0064479.2012

Collected Date: 06/07/2012

Submitted Date/Time: 06/08/2012 11:00

Sampled by: Megan Meckley

P.O. #: PO125047

Added 1,4-Dioxane, SIMS

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Supplemental Report

Sample Summary (25 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52806.01	SB-A20-EQ20_1-2	Soil	06/07/2012 08:41
S52806.02	SB-A20-EQ20_6-7	Soil	06/07/2012 09:04
S52806.03	SB-A20-EQ20_16-17	Soil	06/07/2012 09:06
S52806.04	SB-A20-DUP93	Soil	06/07/2012 00:01
S52806.05	SB-A20-EN25_1-2	Soil	06/07/2012 09:30
S52806.06	SB-A20-EN25_8-9	Soil	06/07/2012 09:51
S52806.07	SB-A20-EQ29_1-2	Soil	06/07/2012 09:59
S52806.08	SB-A20-EQ29_8-9	Soil	06/07/2012 10:08
S52806.09	SB-A20-EQ29_15-16	Soil	06/07/2012 10:27
S52806.10	SB-A20-DUP94	Soil	06/07/2012 00:01
S52806.11	SB-A20-EM25_1-2	Soil	06/07/2012 11:40
S52806.12	SB-A20-EM25_8-9	Soil	06/07/2012 11:50
S52806.13	SB-A20-EM25_18-19	Soil	06/07/2012 12:10
S52806.14	SB-A20-EM25_18-19 MS	Soil	06/07/2012 12:10
S52806.15	SB-A20-EM25_18-19 MSD	Soil	06/07/2012 12:10
S52806.16	SB-A1-RQ78_12-13	Soil	06/07/2012 14:50
S52806.17	SB-A1-DUP95	Soil	06/07/2012 00:01
S52806.18	SB-A1-RQ78_11-15	Groundwater	06/07/2012 15:05
S52806.19	SB-A1-RQ78_17-18	Soil	06/07/2012 15:25
S52806.20	SB-A5.6-NI207_1-2	Soil	06/07/2012 15:58
S52806.21	SB-A5.6-NQ208_1-2	Soil	06/07/2012 16:05
S52806.22	SB-A5.6-NQ208_7-8	Soil	06/07/2012 16:25
S52806.23	SB-A5.6-NQ208_16-17	Soil	06/07/2012 16:30
S52806.24	SB-A5.6-NI207_6-7	Soil	06/07/2012 16:42
S52806.25	SB-A5.6-NI207_16-17	Soil	06/07/2012 16:48



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.01
Sample Tag: SB-A20-EQ20_1-2
Collected Date/Time: 06/07/2012 08:41
Matrix: Soil
COC Reference: 69160

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/11/12 23:50	EMR		
Mercury Digestion	Completed			7471A	06/15/12 09:30	JRH		
Metal Digestion	Completed			3050B	06/15/12 09:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	06/11/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/15/12 18:33	PER	7440-36-0	
Arsenic	1.06	mg/kg	0.10	6020	06/15/12 18:33	PER	7440-38-2	
Barium	35.5	mg/kg	1.0	6020	06/15/12 18:33	PER	7440-39-3	
Beryllium	0.28	mg/kg	0.21	6020	06/15/12 18:33	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/15/12 18:33	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	06/15/12 18:33	PER	7440-43-9	
Chromium	6.08	mg/kg	0.21	6020	06/15/12 18:33	PER	7440-47-3	
Cobalt	2.89	mg/kg	0.21	6020	06/15/12 18:33	PER	7440-48-4	
Copper	135	mg/kg	0.21	6020	06/15/12 18:33	PER	7440-50-8	
Lead	7.23	mg/kg	0.21	6020	06/15/12 18:33	PER	7439-92-1	
Manganese	244	mg/kg	0.21	6020	06/15/12 18:33	PER	7439-96-5	
Mercury	0.0318	mg/kg	0.0056	7471A	06/15/12 13:43	JRT	7439-97-6	
Nickel	4.66	mg/kg	0.21	6020	06/15/12 18:33	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/15/12 18:33	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/15/12 18:33	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/15/12 18:33	PER	7440-28-0	
Vanadium	10.1	mg/kg	0.21	6020	06/15/12 18:33	PER	7440-62-2	
Zinc	9.75	mg/kg	1.0	6020	06/15/12 18:33	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/18/12 00:24	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	207-08-9	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.01 (continued)

Sample Tag: SB-A20-EQ20_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/18/12 00:24	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/18/12 00:24	JGH	84-66-2	
Dimethyl phthalate	120	ug/kg	40	8270C	06/18/12 00:24	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/18/12 00:24	JGH	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/18/12 00:24	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/18/12 00:24	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.01 (continued)

Sample Tag: SB-A20-EQ20_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 00:24	JGH	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.02
Sample Tag: SB-A20-EQ20_6-7
Collected Date/Time: 06/07/2012 09:04
Matrix: Soil
COC Reference: 69160

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/11/12 23:50	EMR		
Mercury Digestion	Completed			7471A	06/15/12 09:30	JRH		
Metal Digestion	Completed			3050B	06/15/12 09:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	06/11/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/15/12 18:34	PER	7440-36-0	
Arsenic	0.76	mg/kg	0.10	6020	06/15/12 18:34	PER	7440-38-2	
Barium	18.7	mg/kg	1.0	6020	06/15/12 18:34	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/15/12 18:34	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/15/12 18:34	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/15/12 18:34	PER	7440-43-9	
Chromium	3.13	mg/kg	0.20	6020	06/15/12 18:34	PER	7440-47-3	
Cobalt	2.37	mg/kg	0.20	6020	06/15/12 18:34	PER	7440-48-4	
Copper	7.13	mg/kg	0.20	6020	06/15/12 18:34	PER	7440-50-8	
Lead	4.14	mg/kg	0.20	6020	06/15/12 18:34	PER	7439-92-1	
Manganese	252	mg/kg	0.20	6020	06/15/12 18:34	PER	7439-96-5	
Mercury	0.0146	mg/kg	0.0058	7471A	06/15/12 13:45	JRT	7439-97-6	
Nickel	5.49	mg/kg	0.20	6020	06/15/12 18:34	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/15/12 18:34	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/15/12 18:34	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/15/12 18:34	PER	7440-28-0	
Vanadium	5.86	mg/kg	0.20	6020	06/15/12 18:34	PER	7440-62-2	
Zinc	9.70	mg/kg	1.0	6020	06/15/12 18:34	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 00:54	JGH	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	100-52-7	
Benzo(a)anthracene	120	ug/kg	40	8270C	06/18/12 00:54	JGH	56-55-3	
Benzo(a)pyrene	150	ug/kg	40	8270C	06/18/12 00:54	JGH	50-32-8	
Benzo(b)fluoranthene	230	ug/kg	40	8270C	06/18/12 00:54	JGH	205-99-2	p
Benzo(ghi)perylene	120	ug/kg	40	8270C	06/18/12 00:54	JGH	191-24-2	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.02 (continued)

Sample Tag: SB-A20-EQ20_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	230	ug/kg	40	8270C	06/18/12 00:54	JGH	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	108-60-1	
Chrysene	130	ug/kg	40	8270C	06/18/12 00:54	JGH	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/18/12 00:54	JGH	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 00:54	JGH	84-66-2	
Dimethyl phthalate	190	ug/kg	40	8270C	06/18/12 00:54	JGH	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/18/12 00:54	JGH	117-81-7	
Fluoranthene	180	ug/kg	40	8270C	06/18/12 00:54	JGH	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	67-72-1	
Indeno(1,2,3-cd)pyrene	120	ug/kg	40	8270C	06/18/12 00:54	JGH	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/18/12 00:54	JGH	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 00:54	JGH	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	87-86-5	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.02 (continued)

Sample Tag: SB-A20-EQ20_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenanthrene	80	ug/kg	40	8270C	06/18/12 00:54	JGH	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	108-95-2	
Pyrene	160	ug/kg	40	8270C	06/18/12 00:54	JGH	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 00:54	JGH	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.03
Sample Tag: SB-A20-EQ20_16-17
Collected Date/Time: 06/07/2012 09:06
Matrix: Soil
COC Reference: 69160

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/12/12 9:54	CCM		
Mercury Digestion	Completed			7471A	06/15/12 09:30	JRH		
Metal Digestion	Completed			3050B	06/15/12 09:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	06/11/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/15/12 18:36	PER	7440-36-0	
Arsenic	0.69	mg/kg	0.10	6020	06/15/12 18:36	PER	7440-38-2	
Barium	22.4	mg/kg	1.0	6020	06/15/12 18:36	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/15/12 18:36	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/15/12 18:36	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/15/12 18:36	PER	7440-43-9	
Chromium	2.30	mg/kg	0.21	6020	06/15/12 18:36	PER	7440-47-3	
Cobalt	1.86	mg/kg	0.21	6020	06/15/12 18:36	PER	7440-48-4	
Copper	2.83	mg/kg	0.21	6020	06/15/12 18:36	PER	7440-50-8	
Lead	3.68	mg/kg	0.21	6020	06/15/12 18:36	PER	7439-92-1	
Manganese	293	mg/kg	0.21	6020	06/15/12 18:36	PER	7439-96-5	
Mercury	0.0157	mg/kg	0.0057	7471A	06/15/12 13:47	JRT	7439-97-6	
Nickel	2.60	mg/kg	0.21	6020	06/15/12 18:36	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/15/12 18:36	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/15/12 18:36	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/15/12 18:36	PER	7440-28-0	
Vanadium	4.11	mg/kg	0.21	6020	06/15/12 18:36	PER	7440-62-2	
Zinc	9.03	mg/kg	1.0	6020	06/15/12 18:36	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 14:23	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	207-08-9	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.03 (continued)

Sample Tag: SB-A20-EQ20_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/18/12 14:23	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 14:23	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/18/12 14:23	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/18/12 14:23	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 14:23	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	129-00-0	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.03 (continued)

Sample Tag: SB-A20-EQ20_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 14:23	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.04
Sample Tag: SB-A20-DUP93
Collected Date/Time: 06/07/2012 00:01
Matrix: Soil
COC Reference: 69160

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/12/12 9:54	CCM		
Mercury Digestion	Completed			7471A	06/15/12 09:30	JRH		
Metal Digestion	Completed			3050B	06/15/12 09:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	06/11/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/15/12 18:39	PER	7440-36-0	
Arsenic	0.77	mg/kg	0.10	6020	06/15/12 18:39	PER	7440-38-2	
Barium	37.8	mg/kg	1.0	6020	06/15/12 18:39	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/15/12 18:39	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	06/15/12 18:39	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/15/12 18:39	PER	7440-43-9	
Chromium	3.48	mg/kg	0.21	6020	06/15/12 18:39	PER	7440-47-3	
Cobalt	2.11	mg/kg	0.21	6020	06/15/12 18:39	PER	7440-48-4	
Copper	5.90	mg/kg	0.21	6020	06/15/12 18:39	PER	7440-50-8	
Lead	4.05	mg/kg	0.21	6020	06/15/12 18:39	PER	7439-92-1	
Manganese	267	mg/kg	0.21	6020	06/15/12 18:39	PER	7439-96-5	
Mercury	0.0175	mg/kg	0.0056	7471A	06/15/12 13:49	JRT	7439-97-6	
Nickel	5.66	mg/kg	0.21	6020	06/15/12 18:39	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/15/12 18:39	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/15/12 18:39	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/15/12 18:39	PER	7440-28-0	
Vanadium	6.15	mg/kg	0.21	6020	06/15/12 18:39	PER	7440-62-2	
Zinc	9.75	mg/kg	1.0	6020	06/15/12 18:39	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 14:52	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	207-08-9	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.04 (continued)

Sample Tag: SB-A20-DUP93

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/18/12 14:52	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 14:52	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/18/12 14:52	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/18/12 14:52	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 14:52	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	129-00-0	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.04 (continued)

Sample Tag: SB-A20-DUP93

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 14:52	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.05
Sample Tag: SB-A20-EN25_1-2
Collected Date/Time: 06/07/2012 09:30
Matrix: Soil
COC Reference: 69160

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/12/12 9:54	CCM		
Mercury Digestion	Completed			7471A	06/15/12 09:30	JRH		
Metal Digestion	Completed			3050B	06/15/12 09:00	PER		

Inorganics

Total Solids	95	%	1	Std M 2540 B	06/11/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/15/12 18:41	PER	7440-36-0	
Arsenic	0.89	mg/kg	0.10	6020	06/15/12 18:41	PER	7440-38-2	
Barium	11.9	mg/kg	1.0	6020	06/15/12 18:41	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/15/12 18:41	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/15/12 18:41	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/15/12 18:41	PER	7440-43-9	
Chromium	2.42	mg/kg	0.20	6020	06/15/12 18:41	PER	7440-47-3	
Cobalt	2.06	mg/kg	0.20	6020	06/15/12 18:41	PER	7440-48-4	
Copper	3.82	mg/kg	0.20	6020	06/15/12 18:41	PER	7440-50-8	
Lead	2.95	mg/kg	0.20	6020	06/15/12 18:41	PER	7439-92-1	
Manganese	222	mg/kg	0.20	6020	06/15/12 18:41	PER	7439-96-5	
Mercury	0.0093	mg/kg	0.0053	7471A	06/15/12 13:52	JRT	7439-97-6	
Nickel	6.15	mg/kg	0.20	6020	06/15/12 18:41	PER	7440-02-0	
Selenium	0.21	mg/kg	0.20	6020	06/15/12 18:41	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/15/12 18:41	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/15/12 18:41	PER	7440-28-0	
Vanadium	3.27	mg/kg	0.20	6020	06/15/12 18:41	PER	7440-62-2	
Zinc	6.66	mg/kg	1.0	6020	06/15/12 18:41	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	208-96-8	
Acetophenone	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	98-86-2	
Anthracene	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	120-12-7	
Atrazine	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	100	8270C	06/18/12 18:49	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	100-52-7	
Benzo(a)anthracene	230	ug/kg	70	8270C	06/18/12 18:49	PL	56-55-3	
Benzo(a)pyrene	200	ug/kg	70	8270C	06/18/12 18:49	PL	50-32-8	
Benzo(b)fluoranthene	330	ug/kg	70	8270C	06/18/12 18:49	PL	205-99-2	p
Benzo(ghi)perylene	180	ug/kg	70	8270C	06/18/12 18:49	PL	191-24-2	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.05 (continued)

Sample Tag: SB-A20-EN25_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	340	ug/kg	70	8270C	06/18/12 18:49	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	105-60-2	
Carbazole	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	108-60-1	
Chrysene	230	ug/kg	70	8270C	06/18/12 18:49	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	100	8270C	06/18/12 18:49	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	100	8270C	06/18/12 18:49	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	100	8270C	06/18/12 18:49	PL	117-81-7	
Fluoranthene	470	ug/kg	70	8270C	06/18/12 18:49	PL	206-44-0	
Fluorene	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	160	ug/kg	70	8270C	06/18/12 18:49	PL	193-39-5	
Isophorone	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	100	8270C	06/18/12 18:49	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	86-30-6	
Naphthalene	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	100	8270C	06/18/12 18:49	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	87-86-5	
Phenanthrene	250	ug/kg	70	8270C	06/18/12 18:49	PL	85-01-8	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.05 (continued)

Sample Tag: SB-A20-EN25_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	108-95-2	
Pyrene	410	ug/kg	70	8270C	06/18/12 18:49	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	70	8270C	06/18/12 18:49	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.06
Sample Tag: SB-A20-EN25_8-9
Collected Date/Time: 06/07/2012 09:51
Matrix: Soil
COC Reference: 69160

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/12/12 9:54	CCM		
Mercury Digestion	Completed			7471A	06/15/12 09:30	JRH		
Metal Digestion	Completed			3050B	06/15/12 09:30	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	06/11/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/18/12 13:16	PER	7440-36-0	
Arsenic	0.61	mg/kg	0.10	6020	06/18/12 13:16	PER	7440-38-2	
Barium	31.5	mg/kg	1.0	6020	06/18/12 13:16	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/18/12 13:16	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/18/12 13:16	PER	7440-42-8	
Cadmium	0.22	mg/kg	0.10	6020	06/18/12 13:16	PER	7440-43-9	
Chromium	4.01	mg/kg	0.21	6020	06/18/12 13:16	PER	7440-47-3	
Cobalt	2.45	mg/kg	0.21	6020	06/18/12 13:16	PER	7440-48-4	
Copper	4.47	mg/kg	0.21	6020	06/18/12 13:16	PER	7440-50-8	
Lead	3.42	mg/kg	0.21	6020	06/18/12 13:16	PER	7439-92-1	
Manganese	156	mg/kg	0.21	6020	06/18/12 13:16	PER	7439-96-5	
Mercury	0.0130	mg/kg	0.0056	7471A	06/15/12 13:54	JRT	7439-97-6	
Nickel	6.52	mg/kg	0.21	6020	06/18/12 13:16	PER	7440-02-0	
Selenium	0.31	mg/kg	0.21	6020	06/18/12 13:16	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/18/12 13:16	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/18/12 13:16	PER	7440-28-0	
Vanadium	5.67	mg/kg	0.21	6020	06/18/12 13:16	PER	7440-62-2	
Zinc	9.18	mg/kg	1.0	6020	06/18/12 13:16	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/18/12 15:22	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	207-08-9	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.06 (continued)

Sample Tag: SB-A20-EN25_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/18/12 15:22	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/18/12 15:22	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/18/12 15:22	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/18/12 15:22	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/18/12 15:22	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	129-00-0	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.06 (continued)

Sample Tag: SB-A20-EN25_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 15:22	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.07
Sample Tag: SB-A20-EQ29_1-2
Collected Date/Time: 06/07/2012 09:59
Matrix: Soil
COC Reference: 69160

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/12/12 9:54	CCM		
BNA Extraction (Replicate 01)	Completed			3550B	06/19/12 12:00	CCM		
Mercury Digestion	Completed			7471A	06/15/12 09:30	JRH		
Metal Digestion	Completed			3050B	06/15/12 09:30	PER		

Inorganics

Total Solids	93	%	1	Std M 2540 B	06/11/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/18/12 13:29	PER	7440-36-0	
Arsenic	1.43	mg/kg	0.10	6020	06/18/12 13:29	PER	7440-38-2	
Barium	13.2	mg/kg	1.0	6020	06/18/12 13:29	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/18/12 13:29	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/18/12 13:29	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/18/12 13:29	PER	7440-43-9	
Chromium	2.62	mg/kg	0.21	6020	06/18/12 13:29	PER	7440-47-3	
Cobalt	3.73	mg/kg	0.21	6020	06/18/12 13:29	PER	7440-48-4	
Copper	5.64	mg/kg	0.21	6020	06/18/12 13:29	PER	7440-50-8	
Lead	3.32	mg/kg	0.21	6020	06/18/12 13:29	PER	7439-92-1	
Manganese	188	mg/kg	0.21	6020	06/18/12 13:29	PER	7439-96-5	
Mercury	0.0061	mg/kg	0.0054	7471A	06/15/12 13:56	JRT	7439-97-6	
Nickel	6.97	mg/kg	0.21	6020	06/18/12 13:29	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/18/12 13:29	PER	7782-49-2	
Silver	0.26	mg/kg	0.10	6020	06/18/12 13:29	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/18/12 13:29	PER	7440-28-0	
Vanadium	4.18	mg/kg	0.21	6020	06/18/12 13:29	PER	7440-62-2	
Zinc	10.5	mg/kg	1.0	6020	06/18/12 13:29	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/18/12 19:49	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	100-52-7	S
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	50-32-8	
Benzo(b)fluoranthene	60	ug/kg	40	8270C	06/18/12 19:49	PL	205-99-2	p

S-Surrogate recovery outside of control limits

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.07 (continued)

Sample Tag: SB-A20-EQ29_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	191-24-2	
Benzo(k)fluoranthene	60	ug/kg	40	8270C	06/18/12 19:49	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	59-50-7	S
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	106-47-8	S
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	105-60-2	S
Carbazole	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	111-91-1	S
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	120-83-2	S
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	105-67-9	S
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/18/12 19:49	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/18/12 19:49	PL	84-66-2	
Dimethyl phthalate	40	ug/kg	40	8270C	06/18/12 19:49	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/18/12 19:49	PL	117-81-7	
Fluoranthene	70	ug/kg	40	8270C	06/18/12 19:49	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	87-68-3	S
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	77-47-4	S
Hexachloroethane	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	78-59-1	S
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	91-57-6	S
2-Methylphenol	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/18/12 19:49	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	88-75-5	S
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	91-20-3	S
Nitrobenzene	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	98-95-3	S

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

S-Surrogate recovery outside of control limits

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.07 (continued)

Sample Tag: SB-A20-EQ29_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/18/12 19:49	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	108-95-2	
Pyrene	60	ug/kg	40	8270C	06/18/12 19:49	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	95-95-4	S
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 19:49	PL	88-06-2	S
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/19/12 17:24	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	50-32-8	
Benzo(b)fluoranthene	60	ug/kg	40	8270C	06/19/12 17:24	PL	205-99-2	p
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	191-24-2	
Benzo(k)fluoranthene	60	ug/kg	40	8270C	06/19/12 17:24	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/19/12 17:24	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/19/12 17:24	PL	84-66-2	
Dimethyl phthalate	120	ug/kg	40	8270C	06/19/12 17:24	PL	131-11-3	B

S-Surrogate recovery outside of control limits

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.07 (continued)

Sample Tag: SB-A20-EQ29_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/19/12 17:24	PL	117-81-7	
Fluoranthene	60	ug/kg	40	8270C	06/19/12 17:24	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/19/12 17:24	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/19/12 17:24	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	108-95-2	
Pyrene	50	ug/kg	40	8270C	06/19/12 17:24	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/19/12 17:24	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.08
Sample Tag: SB-A20-EQ29_8-9
Collected Date/Time: 06/07/2012 10:08
Matrix: Soil
COC Reference: 69160

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/12/12 9:54	CCM		
Mercury Digestion	Completed			7471A	06/15/12 09:30	JRH		
Metal Digestion	Completed			3050B	06/15/12 09:30	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	06/11/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/18/12 13:31	PER	7440-36-0	
Arsenic	1.70	mg/kg	0.10	6020	06/18/12 13:31	PER	7440-38-2	
Barium	46.3	mg/kg	1.0	6020	06/18/12 13:31	PER	7440-39-3	
Beryllium	0.31	mg/kg	0.21	6020	06/18/12 13:31	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/18/12 13:31	PER	7440-42-8	
Cadmium	0.15	mg/kg	0.10	6020	06/18/12 13:31	PER	7440-43-9	
Chromium	8.74	mg/kg	0.21	6020	06/18/12 13:31	PER	7440-47-3	
Cobalt	4.40	mg/kg	0.21	6020	06/18/12 13:31	PER	7440-48-4	
Copper	17.7	mg/kg	0.21	6020	06/18/12 13:31	PER	7440-50-8	
Lead	7.51	mg/kg	0.21	6020	06/18/12 13:31	PER	7439-92-1	
Manganese	286	mg/kg	0.21	6020	06/18/12 13:31	PER	7439-96-5	
Mercury	0.0229	mg/kg	0.0056	7471A	06/15/12 13:58	JRT	7439-97-6	
Nickel	11.1	mg/kg	0.21	6020	06/18/12 13:31	PER	7440-02-0	
Selenium	0.30	mg/kg	0.21	6020	06/18/12 13:31	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/18/12 13:31	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/18/12 13:31	PER	7440-28-0	
Vanadium	12.7	mg/kg	0.21	6020	06/18/12 13:31	PER	7440-62-2	
Zinc	20.5	mg/kg	1.0	6020	06/18/12 13:31	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	208-96-8	
Acetophenone	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	98-86-2	
Anthracene	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	120-12-7	
Atrazine	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	300	8270C	06/18/12 19:19	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	207-08-9	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.08 (continued)

Sample Tag: SB-A20-EQ29_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	105-60-2	
Carbazole	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	108-60-1	
Chrysene	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	8270C	06/18/12 19:19	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	300	8270C	06/18/12 19:19	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	300	8270C	06/18/12 19:19	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	206-44-0	
Fluorene	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	193-39-5	
Isophorone	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	300	8270C	06/18/12 19:19	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	86-30-6	
Naphthalene	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	300	8270C	06/18/12 19:19	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	85-01-8	
Phenol	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	108-95-2	
Pyrene	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	129-00-0	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.08 (continued)

Sample Tag: SB-A20-EQ29_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	200	8270C	06/18/12 19:19	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.09
Sample Tag: SB-A20-EQ29_15-16
Collected Date/Time: 06/07/2012 10:27
Matrix: Soil
COC Reference: 69160

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/12/12 9:54	CCM		
Mercury Digestion	Completed			7471A	06/15/12 09:30	JRH		
Metal Digestion	Completed			3050B	06/15/12 09:30	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	06/11/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/18/12 13:33	PER	7440-36-0	
Arsenic	1.06	mg/kg	0.10	6020	06/18/12 13:33	PER	7440-38-2	
Barium	28.2	mg/kg	1.0	6020	06/18/12 13:33	PER	7440-39-3	
Beryllium	0.28	mg/kg	0.21	6020	06/18/12 13:33	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/18/12 13:33	PER	7440-42-8	
Cadmium	0.14	mg/kg	0.10	6020	06/18/12 13:33	PER	7440-43-9	
Chromium	8.42	mg/kg	0.21	6020	06/18/12 13:33	PER	7440-47-3	
Cobalt	4.95	mg/kg	0.21	6020	06/18/12 13:33	PER	7440-48-4	
Copper	9.96	mg/kg	0.21	6020	06/18/12 13:33	PER	7440-50-8	
Lead	5.74	mg/kg	0.21	6020	06/18/12 13:33	PER	7439-92-1	
Manganese	218	mg/kg	0.21	6020	06/18/12 13:33	PER	7439-96-5	
Mercury	0.0070	mg/kg	0.0056	7471A	06/15/12 14:01	JRT	7439-97-6	
Nickel	13.9	mg/kg	0.21	6020	06/18/12 13:33	PER	7440-02-0	
Selenium	0.33	mg/kg	0.21	6020	06/18/12 13:33	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/18/12 13:33	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/18/12 13:33	PER	7440-28-0	
Vanadium	10.4	mg/kg	0.21	6020	06/18/12 13:33	PER	7440-62-2	
Zinc	23.7	mg/kg	1.0	6020	06/18/12 13:33	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 15:51	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	207-08-9	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.09 (continued)

Sample Tag: SB-A20-EQ29_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/18/12 15:51	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 15:51	PL	84-66-2	
Dimethyl phthalate	50	ug/kg	40	8270C	06/18/12 15:51	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/18/12 15:51	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/18/12 15:51	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 15:51	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.09 (continued)

Sample Tag: SB-A20-EQ29_15-16

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 15:51	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.10
Sample Tag: SB-A20-DUP94
Collected Date/Time: 06/07/2012 00:01
Matrix: Soil
COC Reference: 69160

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/12/12 9:54	CCM		
Mercury Digestion	Completed			7471A	06/15/12 09:30	JRH		
Metal Digestion	Completed			3050B	06/15/12 09:30	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	06/11/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/18/12 13:35	PER	7440-36-0	
Arsenic	1.58	mg/kg	0.10	6020	06/18/12 13:35	PER	7440-38-2	
Barium	31.6	mg/kg	1.0	6020	06/18/12 13:35	PER	7440-39-3	
Beryllium	0.31	mg/kg	0.21	6020	06/18/12 13:35	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/18/12 13:35	PER	7440-42-8	
Cadmium	0.16	mg/kg	0.10	6020	06/18/12 13:35	PER	7440-43-9	
Chromium	11.1	mg/kg	0.21	6020	06/18/12 13:35	PER	7440-47-3	
Cobalt	6.91	mg/kg	0.21	6020	06/18/12 13:35	PER	7440-48-4	
Copper	13.1	mg/kg	0.21	6020	06/18/12 13:35	PER	7440-50-8	
Lead	6.63	mg/kg	0.21	6020	06/18/12 13:35	PER	7439-92-1	
Manganese	258	mg/kg	0.21	6020	06/18/12 13:35	PER	7439-96-5	
Mercury	0.0131	mg/kg	0.0054	7471A	06/15/12 14:14	JRT	7439-97-6	
Nickel	16.7	mg/kg	0.21	6020	06/18/12 13:35	PER	7440-02-0	
Selenium	0.22	mg/kg	0.21	6020	06/18/12 13:35	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/18/12 13:35	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/18/12 13:35	PER	7440-28-0	
Vanadium	13.9	mg/kg	0.21	6020	06/18/12 13:35	PER	7440-62-2	
Zinc	30.9	mg/kg	1.0	6020	06/18/12 13:35	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/18/12 16:21	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	207-08-9	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.10 (continued)

Sample Tag: SB-A20-DUP94

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/18/12 16:21	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/18/12 16:21	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/18/12 16:21	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/18/12 16:21	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/18/12 16:21	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	129-00-0	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.10 (continued)

Sample Tag: SB-A20-DUP94

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 16:21	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.11
Sample Tag: SB-A20-EM25_1-2
Collected Date/Time: 06/07/2012 11:40
Matrix: Soil
COC Reference: 69160

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/12/12 9:54	CCM		
Mercury Digestion	Completed			7471A	06/15/12 09:30	JRH		
Metal Digestion	Completed			3050B	06/15/12 09:30	PER		

Inorganics

Total Solids	84	%	1	Std M 2540 B	06/11/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/18/12 13:37	PER	7440-36-0	
Arsenic	0.72	mg/kg	0.10	6020	06/18/12 13:37	PER	7440-38-2	
Barium	15.8	mg/kg	1.0	6020	06/18/12 13:37	PER	7440-39-3	
Beryllium	0.21	mg/kg	0.21	6020	06/18/12 13:37	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	06/18/12 13:37	PER	7440-42-8	
Cadmium	0.32	mg/kg	0.10	6020	06/18/12 13:37	PER	7440-43-9	
Chromium	7.04	mg/kg	0.21	6020	06/18/12 13:37	PER	7440-47-3	
Cobalt	7.38	mg/kg	0.21	6020	06/18/12 13:37	PER	7440-48-4	
Copper	11.6	mg/kg	0.21	6020	06/18/12 13:37	PER	7440-50-8	
Lead	13.6	mg/kg	0.21	6020	06/18/12 13:37	PER	7439-92-1	
Manganese	171	mg/kg	0.21	6020	06/18/12 13:37	PER	7439-96-5	
Mercury	0.0245	mg/kg	0.0058	7471A	06/15/12 14:16	JRT	7439-97-6	
Nickel	7.43	mg/kg	0.21	6020	06/18/12 13:37	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/18/12 13:37	PER	7782-49-2	
Silver	0.84	mg/kg	0.10	6020	06/18/12 13:37	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/18/12 13:37	PER	7440-28-0	
Vanadium	6.97	mg/kg	0.21	6020	06/18/12 13:37	PER	7440-62-2	
Zinc	83.9	mg/kg	1.0	6020	06/18/12 13:37	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	300	ug/kg	200	8270C	06/18/12 21:18	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	208-96-8	
Acetophenone	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	98-86-2	
Anthracene	600	ug/kg	200	8270C	06/18/12 21:18	PL	120-12-7	
Atrazine	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	300	8270C	06/18/12 21:18	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	100-52-7	
Benzo(a)anthracene	3,400	ug/kg	200	8270C	06/18/12 21:18	PL	56-55-3	
Benzo(a)pyrene	3,300	ug/kg	200	8270C	06/18/12 21:18	PL	50-32-8	
Benzo(b)fluoranthene	5,900	ug/kg	200	8270C	06/18/12 21:18	PL	205-99-2	p
Benzo(ghi)perylene	2,000	ug/kg	200	8270C	06/18/12 21:18	PL	191-24-2	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.11 (continued)

Sample Tag: SB-A20-EM25_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	6,000	ug/kg	200	8270C	06/18/12 21:18	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	105-60-2	
Carbazole	400	ug/kg	200	8270C	06/18/12 21:18	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	108-60-1	
Chrysene	3,500	ug/kg	200	8270C	06/18/12 21:18	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	534-52-1	
Dibenzo(ah)anthracene	600	ug/kg	300	8270C	06/18/12 21:18	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	300	8270C	06/18/12 21:18	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	300	8270C	06/18/12 21:18	PL	117-81-7	
Fluoranthene	7,600	ug/kg	200	8270C	06/18/12 21:18	PL	206-44-0	
Fluorene	300	ug/kg	200	8270C	06/18/12 21:18	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	1,900	ug/kg	200	8270C	06/18/12 21:18	PL	193-39-5	
Isophorone	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	300	8270C	06/18/12 21:18	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	86-30-6	
Naphthalene	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	300	8270C	06/18/12 21:18	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	87-86-5	
Phenanthrene	2,900	ug/kg	200	8270C	06/18/12 21:18	PL	85-01-8	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.11 (continued)

Sample Tag: SB-A20-EM25_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	108-95-2	
Pyrene	6,700	ug/kg	200	8270C	06/18/12 21:18	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	200	8270C	06/18/12 21:18	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.12
Sample Tag: SB-A20-EM25_8-9
Collected Date/Time: 06/07/2012 11:50
Matrix: Soil
COC Reference: 69160

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/12/12 9:54	CCM		
Mercury Digestion	Completed			7471A	06/15/12 09:30	JRH		
Metal Digestion	Completed			3050B	06/15/12 09:30	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	06/11/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/18/12 13:39	PER	7440-36-0	
Arsenic	0.87	mg/kg	0.10	6020	06/18/12 13:39	PER	7440-38-2	
Barium	52.9	mg/kg	1.0	6020	06/18/12 13:39	PER	7440-39-3	
Beryllium	0.36	mg/kg	0.21	6020	06/18/12 13:39	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	06/18/12 13:39	PER	7440-42-8	
Cadmium	0.15	mg/kg	0.10	6020	06/18/12 13:39	PER	7440-43-9	
Chromium	10.5	mg/kg	0.21	6020	06/18/12 13:39	PER	7440-47-3	
Cobalt	5.84	mg/kg	0.21	6020	06/18/12 13:39	PER	7440-48-4	
Copper	10.2	mg/kg	0.21	6020	06/18/12 13:39	PER	7440-50-8	
Lead	6.35	mg/kg	0.21	6020	06/18/12 13:39	PER	7439-92-1	
Manganese	298	mg/kg	0.21	6020	06/18/12 13:39	PER	7439-96-5	
Mercury	0.0266	mg/kg	0.0059	7471A	06/15/12 14:19	JRT	7439-97-6	
Nickel	14.1	mg/kg	0.21	6020	06/18/12 13:39	PER	7440-02-0	
Selenium	0.26	mg/kg	0.21	6020	06/18/12 13:39	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/18/12 13:39	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/18/12 13:39	PER	7440-28-0	
Vanadium	12.9	mg/kg	0.21	6020	06/18/12 13:39	PER	7440-62-2	
Zinc	26.2	mg/kg	1.0	6020	06/18/12 13:39	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 16:51	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	207-08-9	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.12 (continued)

Sample Tag: SB-A20-EM25_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/18/12 16:51	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 16:51	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/18/12 16:51	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/18/12 16:51	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 16:51	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	129-00-0	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.12 (continued)

Sample Tag: SB-A20-EM25_8-9

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 16:51	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.13
Sample Tag: SB-A20-EM25_18-19
Collected Date/Time: 06/07/2012 12:10
Matrix: Soil
COC Reference: 69157

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/12/12 9:54	CCM		
Mercury Digestion	Completed			7471A	06/15/12 09:30	JRH		
Metal Digestion	Completed			3050B	06/15/12 09:30	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	06/11/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/18/12 13:42	PER	7440-36-0	
Arsenic	0.29	mg/kg	0.10	6020	06/18/12 13:42	PER	7440-38-2	
Barium	7.31	mg/kg	1.0	6020	06/18/12 13:42	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/18/12 13:42	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	06/18/12 13:42	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/18/12 13:42	PER	7440-43-9	
Chromium	1.43	mg/kg	0.21	6020	06/18/12 13:42	PER	7440-47-3	
Cobalt	0.66	mg/kg	0.21	6020	06/18/12 13:42	PER	7440-48-4	
Copper	1.12	mg/kg	0.21	6020	06/18/12 13:42	PER	7440-50-8	
Lead	1.98	mg/kg	0.21	6020	06/18/12 13:42	PER	7439-92-1	
Manganese	27.9	mg/kg	0.21	6020	06/18/12 13:42	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.006	7471A	06/15/12 14:03	JRT	7439-97-6	
Nickel	1.65	mg/kg	0.21	6020	06/18/12 13:42	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/18/12 13:42	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/18/12 13:42	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/18/12 13:42	PER	7440-28-0	
Vanadium	1.98	mg/kg	0.21	6020	06/18/12 13:42	PER	7440-62-2	
Zinc	6.58	mg/kg	1.0	6020	06/18/12 13:42	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 17:20	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	207-08-9	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.13 (continued)

Sample Tag: SB-A20-EM25_18-19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/18/12 17:20	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 17:20	PL	84-66-2	
Dimethyl phthalate	150	ug/kg	40	8270C	06/18/12 17:20	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/18/12 17:20	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/18/12 17:20	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 17:20	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	108-95-2	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.13 (continued)

Sample Tag: SB-A20-EM25_18-19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pyrene	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 17:20	PL	88-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.14
Sample Tag: SB-A20-EM25_18-19 MS
Collected Date/Time: 06/07/2012 12:10
Matrix: Soil
COC Reference: 69157

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/12/12 9:54	CCM		
Mercury Digestion	Completed			7471A	06/15/12 09:30	JRH		
Metal Digestion	Completed			3050B	06/15/12 09:30	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	06/11/12 17:00	WAR		
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Metals

Antimony	23.4	mg/kg	0.21	6020	06/18/12 13:49	PER	7440-36-0	
Arsenic	22.7	mg/kg	0.10	6020	06/18/12 13:49	PER	7440-38-2	
Barium	30.9	mg/kg	1.0	6020	06/18/12 13:49	PER	7440-39-3	
Beryllium	22.4	mg/kg	0.21	6020	06/18/12 13:49	PER	7440-41-7	
Boron	20.1	mg/kg	4.3	6020	06/18/12 13:49	PER	7440-42-8	
Cadmium	22.9	mg/kg	0.10	6020	06/18/12 13:49	PER	7440-43-9	
Chromium	23.6	mg/kg	0.21	6020	06/18/12 13:49	PER	7440-47-3	
Cobalt	22.4	mg/kg	0.21	6020	06/18/12 13:49	PER	7440-48-4	
Copper	22.2	mg/kg	0.21	6020	06/18/12 13:49	PER	7440-50-8	
Lead	24.1	mg/kg	0.21	6020	06/18/12 13:49	PER	7439-92-1	
Manganese	49.8	mg/kg	0.21	6020	06/18/12 13:49	PER	7439-96-5	
Mercury	0.1317	mg/kg	0.0060	7471A	06/15/12 14:05	JRT	7439-97-6	
Nickel	22.9	mg/kg	0.21	6020	06/18/12 13:49	PER	7440-02-0	
Selenium	23.6	mg/kg	0.21	6020	06/18/12 13:49	PER	7782-49-2	
Silver	22.3	mg/kg	0.10	6020	06/18/12 13:49	PER	7440-22-4	
Thallium	22.3	mg/kg	0.21	6020	06/18/12 13:49	PER	7440-28-0	
Vanadium	23.6	mg/kg	0.21	6020	06/18/12 13:49	PER	7440-62-2	
Zinc	28.7	mg/kg	1.0	6020	06/18/12 13:49	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	1,770	ug/kg	40	8270C	06/18/12 17:50	PL	83-32-9	1
Acenaphthylene	1,930	ug/kg	40	8270C	06/18/12 17:50	PL	208-96-8	1
Acetophenone	1,770	ug/kg	40	8270C	06/18/12 17:50	PL	98-86-2	1
Anthracene	1,650	ug/kg	40	8270C	06/18/12 17:50	PL	120-12-7	1
Atrazine	1,870	ug/kg	40	8270C	06/18/12 17:50	PL	1912-24-9	1
1,1'-Biphenyl	1,830	ug/kg	40	8270C	06/18/12 17:50	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,870	ug/kg	40	8270C	06/18/12 17:50	PL	101-55-3	1
di-n-Butyl phthalate	1,640	ug/kg	80	8270C	06/18/12 17:50	PL	84-74-2	1
Benzaldehyde	1,470	ug/kg	40	8270C	06/18/12 17:50	PL	100-52-7	1
Benzo(a)anthracene	1,940	ug/kg	40	8270C	06/18/12 17:50	PL	56-55-3	1
Benzo(a)pyrene	1,720	ug/kg	40	8270C	06/18/12 17:50	PL	50-32-8	1
Benzo(b)fluoranthene	1,810	ug/kg	40	8270C	06/18/12 17:50	PL	205-99-2	1
Benzo(ghi)perylene	2,450	ug/kg	40	8270C	06/18/12 17:50	PL	191-24-2	1

1-Sample spiked at 2.01 mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.14 (continued)

Sample Tag: SB-A20-EM25_18-19 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	1,810	ug/kg	40	8270C	06/18/12 17:50	PL	207-08-9	1
Butyl benzyl phthalate	1,700	ug/kg	40	8270C	06/18/12 17:50	PL	85-68-7	1
2-Chloronaphthalene	1,800	ug/kg	40	8270C	06/18/12 17:50	PL	91-58-7	1
2-Chlorophenol	1,580	ug/kg	40	8270C	06/18/12 17:50	PL	95-57-8	1
4-Chloro-3-methylphenol	1,660	ug/kg	40	8270C	06/18/12 17:50	PL	59-50-7	1
4-Chloroaniline	820	ug/kg	40	8270C	06/18/12 17:50	PL	106-47-8	1
4-Chlorophenyl phenyl ether	2,650	ug/kg	40	8270C	06/18/12 17:50	PL	7005-72-3	1
Caprolactam	1,650	ug/kg	40	8270C	06/18/12 17:50	PL	105-60-2	1
Carbazole	1,740	ug/kg	40	8270C	06/18/12 17:50	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,460	ug/kg	40	8270C	06/18/12 17:50	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,400	ug/kg	40	8270C	06/18/12 17:50	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,330	ug/kg	40	8270C	06/18/12 17:50	PL	108-60-1	1
Chrysene	1,810	ug/kg	40	8270C	06/18/12 17:50	PL	218-01-9	1
2,4-Dichlorophenol	1,710	ug/kg	40	8270C	06/18/12 17:50	PL	120-83-2	1
2,4-Dimethylphenol	1,450	ug/kg	40	8270C	06/18/12 17:50	PL	105-67-9	1
2,4-Dinitrophenol	1,320	ug/kg	40	8270C	06/18/12 17:50	PL	51-28-5	1
2,4-Dinitrotoluene	1,750	ug/kg	40	8270C	06/18/12 17:50	PL	121-14-2	1
2,6-Dinitrotoluene	2,030	ug/kg	40	8270C	06/18/12 17:50	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,680	ug/kg	40	8270C	06/18/12 17:50	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,490	ug/kg	40	8270C	06/18/12 17:50	PL	534-52-1	1
Dibenzo(ah)anthracene	2,690	ug/kg	80	8270C	06/18/12 17:50	PL	53-70-3	1
Dibenzofuran	1,760	ug/kg	40	8270C	06/18/12 17:50	PL	132-64-9	1
Diethyl phthalate	1,860	ug/kg	80	8270C	06/18/12 17:50	PL	84-66-2	1
Dimethyl phthalate	2,070	ug/kg	40	8270C	06/18/12 17:50	PL	131-11-3	1B
bis(2-Ethylhexyl)phthalate	1,790	ug/kg	80	8270C	06/18/12 17:50	PL	117-81-7	1
Fluoranthene	1,780	ug/kg	40	8270C	06/18/12 17:50	PL	206-44-0	1
Fluorene	2,330	ug/kg	40	8270C	06/18/12 17:50	PL	86-73-7	1
Hexachlorobenzene	1,740	ug/kg	40	8270C	06/18/12 17:50	PL	118-74-1	1
Hexachlorobutadiene	1,530	ug/kg	40	8270C	06/18/12 17:50	PL	87-68-3	1
Hexachlorocyclopentadiene	1,210	ug/kg	40	8270C	06/18/12 17:50	PL	77-47-4	1
Hexachloroethane	1,340	ug/kg	40	8270C	06/18/12 17:50	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	2,460	ug/kg	40	8270C	06/18/12 17:50	PL	193-39-5	1
Isophorone	1,530	ug/kg	40	8270C	06/18/12 17:50	PL	78-59-1	1
2-Methylnaphthalene	1,640	ug/kg	40	8270C	06/18/12 17:50	PL	91-57-6	1
2-Methylphenol	1,660	ug/kg	40	8270C	06/18/12 17:50	PL	95-48-7	1
3-, 4-Methylphenol	2,030	ug/kg	80	8270C	06/18/12 17:50	PL	3/4-Cresol	1
2-Nitroaniline	1,590	ug/kg	40	8270C	06/18/12 17:50	PL	88-74-4	1
2-Nitrophenol	1,510	ug/kg	40	8270C	06/18/12 17:50	PL	88-75-5	1
3-Nitroaniline	1,400	ug/kg	40	8270C	06/18/12 17:50	PL	99-09-2	1
4-Nitroaniline	1,630	ug/kg	40	8270C	06/18/12 17:50	PL	100-01-6	1
4-Nitrophenol	1,440	ug/kg	40	8270C	06/18/12 17:50	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,680	ug/kg	40	8270C	06/18/12 17:50	PL	621-64-7	1
N-Nitrosodiphenylamine	1,300	ug/kg	40	8270C	06/18/12 17:50	PL	86-30-6	1
Naphthalene	1,590	ug/kg	40	8270C	06/18/12 17:50	PL	91-20-3	1
Nitrobenzene	1,450	ug/kg	40	8270C	06/18/12 17:50	PL	98-95-3	1
di-n-Octyl phthalate	1,810	ug/kg	80	8270C	06/18/12 17:50	PL	117-84-0	1
Pentachlorophenol	1,450	ug/kg	40	8270C	06/18/12 17:50	PL	87-86-5	1

1-Sample spiked at 2.01 mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.14 (continued)

Sample Tag: SB-A20-EM25_18-19 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenanthrene	1,700	ug/kg	40	8270C	06/18/12 17:50	PL	85-01-8	1
Phenol	1,670	ug/kg	40	8270C	06/18/12 17:50	PL	108-95-2	1
Pyrene	1,780	ug/kg	40	8270C	06/18/12 17:50	PL	129-00-0	1
2,4,5-Trichlorophenol	1,760	ug/kg	40	8270C	06/18/12 17:50	PL	95-95-4	1
2,4,6-Trichlorophenol	1,690	ug/kg	40	8270C	06/18/12 17:50	PL	88-06-2	1

1-Sample spiked at 2.01 mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.15
Sample Tag: SB-A20-EM25_18-19 MSD
Collected Date/Time: 06/07/2012 12:10
Matrix: Soil
COC Reference: 69157

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/12/12 9:54	CCM		
Mercury Digestion	Completed			7471A	06/15/12 09:30	JRH		
Metal Digestion	Completed			3050B	06/15/12 09:30	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	06/11/12 17:00	WAR		
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Metals

Antimony	23.3	mg/kg	0.21	6020	06/18/12 13:51	PER	7440-36-0	
Arsenic	22.8	mg/kg	0.10	6020	06/18/12 13:51	PER	7440-38-2	
Barium	31.4	mg/kg	1.0	6020	06/18/12 13:51	PER	7440-39-3	
Beryllium	22.7	mg/kg	0.21	6020	06/18/12 13:51	PER	7440-41-7	
Boron	20.8	mg/kg	4.3	6020	06/18/12 13:51	PER	7440-42-8	
Cadmium	22.6	mg/kg	0.10	6020	06/18/12 13:51	PER	7440-43-9	
Chromium	23.4	mg/kg	0.21	6020	06/18/12 13:51	PER	7440-47-3	
Cobalt	22.2	mg/kg	0.21	6020	06/18/12 13:51	PER	7440-48-4	
Copper	22.2	mg/kg	0.21	6020	06/18/12 13:51	PER	7440-50-8	
Lead	23.4	mg/kg	0.21	6020	06/18/12 13:51	PER	7439-92-1	
Manganese	49.8	mg/kg	0.21	6020	06/18/12 13:51	PER	7439-96-5	
Mercury	0.1310	mg/kg	0.0060	7471A	06/15/12 14:07	JRT	7439-97-6	
Nickel	23.1	mg/kg	0.21	6020	06/18/12 13:51	PER	7440-02-0	
Selenium	23.9	mg/kg	0.21	6020	06/18/12 13:51	PER	7782-49-2	
Silver	22.0	mg/kg	0.10	6020	06/18/12 13:51	PER	7440-22-4	
Thallium	21.7	mg/kg	0.21	6020	06/18/12 13:51	PER	7440-28-0	
Vanadium	23.9	mg/kg	0.21	6020	06/18/12 13:51	PER	7440-62-2	
Zinc	29.5	mg/kg	1.0	6020	06/18/12 13:51	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	1,760	ug/kg	40	8270C	06/18/12 18:20	PL	83-32-9	1
Acenaphthylene	1,920	ug/kg	40	8270C	06/18/12 18:20	PL	208-96-8	1
Acetophenone	1,720	ug/kg	40	8270C	06/18/12 18:20	PL	98-86-2	1
Anthracene	1,670	ug/kg	40	8270C	06/18/12 18:20	PL	120-12-7	1
Atrazine	1,910	ug/kg	40	8270C	06/18/12 18:20	PL	1912-24-9	1
1,1'-Biphenyl	1,770	ug/kg	40	8270C	06/18/12 18:20	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,900	ug/kg	40	8270C	06/18/12 18:20	PL	101-55-3	1
di-n-Butyl phthalate	1,670	ug/kg	80	8270C	06/18/12 18:20	PL	84-74-2	1
Benzaldehyde	1,420	ug/kg	40	8270C	06/18/12 18:20	PL	100-52-7	1
Benzo(a)anthracene	1,980	ug/kg	40	8270C	06/18/12 18:20	PL	56-55-3	1
Benzo(a)pyrene	1,770	ug/kg	40	8270C	06/18/12 18:20	PL	50-32-8	1
Benzo(b)fluoranthene	1,850	ug/kg	40	8270C	06/18/12 18:20	PL	205-99-2	1
Benzo(ghi)perylene	2,500	ug/kg	40	8270C	06/18/12 18:20	PL	191-24-2	1

1-Sample spiked at 2.01 mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.15 (continued)

Sample Tag: SB-A20-EM25_18-19 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	1,830	ug/kg	40	8270C	06/18/12 18:20	PL	207-08-9	1
Butyl benzyl phthalate	1,740	ug/kg	40	8270C	06/18/12 18:20	PL	85-68-7	1
2-Chloronaphthalene	1,750	ug/kg	40	8270C	06/18/12 18:20	PL	91-58-7	1
2-Chlorophenol	1,560	ug/kg	40	8270C	06/18/12 18:20	PL	95-57-8	1
4-Chloro-3-methylphenol	1,700	ug/kg	40	8270C	06/18/12 18:20	PL	59-50-7	1
4-Chloroaniline	870	ug/kg	40	8270C	06/18/12 18:20	PL	106-47-8	1
4-Chlorophenyl phenyl ether	2,620	ug/kg	40	8270C	06/18/12 18:20	PL	7005-72-3	1
Caprolactam	1,710	ug/kg	40	8270C	06/18/12 18:20	PL	105-60-2	1
Carbazole	1,770	ug/kg	40	8270C	06/18/12 18:20	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,400	ug/kg	40	8270C	06/18/12 18:20	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,350	ug/kg	40	8270C	06/18/12 18:20	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,280	ug/kg	40	8270C	06/18/12 18:20	PL	108-60-1	1
Chrysene	1,850	ug/kg	40	8270C	06/18/12 18:20	PL	218-01-9	1
2,4-Dichlorophenol	1,680	ug/kg	40	8270C	06/18/12 18:20	PL	120-83-2	1
2,4-Dimethylphenol	1,450	ug/kg	40	8270C	06/18/12 18:20	PL	105-67-9	1
2,4-Dinitrophenol	1,580	ug/kg	40	8270C	06/18/12 18:20	PL	51-28-5	1
2,4-Dinitrotoluene	1,760	ug/kg	40	8270C	06/18/12 18:20	PL	121-14-2	1
2,6-Dinitrotoluene	2,050	ug/kg	40	8270C	06/18/12 18:20	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,880	ug/kg	40	8270C	06/18/12 18:20	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,590	ug/kg	40	8270C	06/18/12 18:20	PL	534-52-1	1
Dibenzo(ah)anthracene	2,740	ug/kg	80	8270C	06/18/12 18:20	PL	53-70-3	1
Dibenzofuran	1,820	ug/kg	40	8270C	06/18/12 18:20	PL	132-64-9	1
Diethyl phthalate	1,900	ug/kg	80	8270C	06/18/12 18:20	PL	84-66-2	1
Dimethyl phthalate	2,020	ug/kg	40	8270C	06/18/12 18:20	PL	131-11-3	1B
bis(2-Ethylhexyl)phthalate	1,820	ug/kg	80	8270C	06/18/12 18:20	PL	117-81-7	1
Fluoranthene	1,810	ug/kg	40	8270C	06/18/12 18:20	PL	206-44-0	1
Fluorene	2,340	ug/kg	40	8270C	06/18/12 18:20	PL	86-73-7	1
Hexachlorobenzene	1,750	ug/kg	40	8270C	06/18/12 18:20	PL	118-74-1	1
Hexachlorobutadiene	1,460	ug/kg	40	8270C	06/18/12 18:20	PL	87-68-3	1
Hexachlorocyclopentadiene	1,220	ug/kg	40	8270C	06/18/12 18:20	PL	77-47-4	1
Hexachloroethane	1,300	ug/kg	40	8270C	06/18/12 18:20	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	2,520	ug/kg	40	8270C	06/18/12 18:20	PL	193-39-5	1
Isophorone	1,510	ug/kg	40	8270C	06/18/12 18:20	PL	78-59-1	1
2-Methylnaphthalene	1,660	ug/kg	40	8270C	06/18/12 18:20	PL	91-57-6	1
2-Methylphenol	1,660	ug/kg	40	8270C	06/18/12 18:20	PL	95-48-7	1
3-, 4-Methylphenol	2,030	ug/kg	80	8270C	06/18/12 18:20	PL	3/4-Cresol	1
2-Nitroaniline	1,680	ug/kg	40	8270C	06/18/12 18:20	PL	88-74-4	1
2-Nitrophenol	1,480	ug/kg	40	8270C	06/18/12 18:20	PL	88-75-5	1
3-Nitroaniline	1,500	ug/kg	40	8270C	06/18/12 18:20	PL	99-09-2	1
4-Nitroaniline	1,730	ug/kg	40	8270C	06/18/12 18:20	PL	100-01-6	1
4-Nitrophenol	1,480	ug/kg	40	8270C	06/18/12 18:20	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,630	ug/kg	40	8270C	06/18/12 18:20	PL	621-64-7	1
N-Nitrosodiphenylamine	1,330	ug/kg	40	8270C	06/18/12 18:20	PL	86-30-6	1
Naphthalene	1,520	ug/kg	40	8270C	06/18/12 18:20	PL	91-20-3	1
Nitrobenzene	1,380	ug/kg	40	8270C	06/18/12 18:20	PL	98-95-3	1
di-n-Octyl phthalate	1,860	ug/kg	80	8270C	06/18/12 18:20	PL	117-84-0	1
Pentachlorophenol	1,560	ug/kg	40	8270C	06/18/12 18:20	PL	87-86-5	1

1-Sample spiked at 2.01 mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.15 (continued)
Sample Tag: SB-A20-EM25_18-19 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenanthrene	1,740	ug/kg	40	8270C	06/18/12 18:20	PL	85-01-8	1
Phenol	1,650	ug/kg	40	8270C	06/18/12 18:20	PL	108-95-2	1
Pyrene	1,800	ug/kg	40	8270C	06/18/12 18:20	PL	129-00-0	1
2,4,5-Trichlorophenol	1,810	ug/kg	40	8270C	06/18/12 18:20	PL	95-95-4	1
2,4,6-Trichlorophenol	1,720	ug/kg	40	8270C	06/18/12 18:20	PL	88-06-2	1

1-Sample spiked at 2.01 mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.16

Sample Tag: SB-A1-RQ78_12-13

Collected Date/Time: 06/07/2012 14:50

Matrix: Soil

COC Reference: 69157

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/12/12 9:54	CCM		
Mercury Digestion	Completed			7471A	06/15/12 09:30	JRH		
Metal Digestion	Completed			3050B	06/15/12 09:30	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	06/11/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/18/12 14:12	PER	7440-36-0	
Arsenic	1.39	mg/kg	0.10	6020	06/18/12 14:12	PER	7440-38-2	
Barium	11.4	mg/kg	1.0	6020	06/18/12 14:12	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/18/12 14:12	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/18/12 14:12	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/18/12 14:12	PER	7440-43-9	
Chromium	4.46	mg/kg	0.21	6020	06/18/12 14:12	PER	7440-47-3	
Cobalt	1.69	mg/kg	0.21	6020	06/18/12 14:12	PER	7440-48-4	
Copper	5.47	mg/kg	0.21	6020	06/18/12 14:12	PER	7440-50-8	
Lead	2.75	mg/kg	0.21	6020	06/18/12 14:12	PER	7439-92-1	
Manganese	172	mg/kg	0.21	6020	06/18/12 14:12	PER	7439-96-5	
Mercury	0.0131	mg/kg	0.0057	7471A	06/15/12 14:21	JRT	7439-97-6	
Nickel	5.65	mg/kg	0.21	6020	06/18/12 14:12	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.21	6020	06/18/12 14:12	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/18/12 14:12	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/18/12 14:12	PER	7440-28-0	
Vanadium	4.09	mg/kg	0.21	6020	06/18/12 14:12	PER	7440-62-2	
Zinc	10.9	mg/kg	1.0	6020	06/18/12 14:12	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	98-86-2	X
Anthracene	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	120-12-7	X
Atrazine	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	1912-24-9	X
1,1'-Biphenyl	1,000	ug/kg	1,000	8270C	06/18/12 20:19	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	06/18/12 20:19	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	205-99-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.16 (continued)

Sample Tag: SB-A1-RQ78_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	105-60-2	X
Carbazole	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	108-60-1	X
Chrysene	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	06/18/12 20:19	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	06/18/12 20:19	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	06/18/12 20:19	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	206-44-0	X
Fluorene	1,000	ug/kg	1,000	8270C	06/18/12 20:19	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	193-39-5	X
Isophorone	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	78-59-1	X
2-Methylnaphthalene	9,000	ug/kg	1,000	8270C	06/18/12 20:19	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	06/18/12 20:19	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	86-30-6	X
Naphthalene	3,000	ug/kg	1,000	8270C	06/18/12 20:19	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	06/18/12 20:19	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	87-86-5	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.16 (continued)

Sample Tag: SB-A1-RQ78_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenanthrene	2,000	ug/kg	1,000	8270C	06/18/12 20:19	PL	85-01-8	X
Phenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	108-95-2	X
Pyrene	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:19	PL	88-06-2	X
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/14/12 21:09	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	76-13-1	
Acetone	Not detected	ug/kg	640	5035/8260B	06/14/12 21:09	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	640	5035/8260B	06/14/12 21:09	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	640	5035/8260B	06/14/12 21:09	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	640	5035/8260B	06/14/12 21:09	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	640	5035/8260B	06/14/12 21:09	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	75-27-4	
Methyl cyclohexane	290	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	79-34-5	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.16 (continued)

Sample Tag: SB-A1-RQ78_12-13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	290	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/14/12 21:09	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	100-42-5	
Isopropylbenzene	410	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 21:09	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.17
Sample Tag: SB-A1-DUP95
Collected Date/Time: 06/07/2012 00:01
Matrix: Soil
COC Reference: 69157

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/12/12 9:54	CCM		
Mercury Digestion	Completed			7471A	06/15/12 09:30	JRH		
Metal Digestion	Completed			3050B	06/15/12 09:30	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	06/11/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/18/12 14:14	PER	7440-36-0	
Arsenic	1.30	mg/kg	0.10	6020	06/18/12 14:14	PER	7440-38-2	
Barium	16.1	mg/kg	1.0	6020	06/18/12 14:14	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/18/12 14:14	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/18/12 14:14	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/18/12 14:14	PER	7440-43-9	
Chromium	3.27	mg/kg	0.20	6020	06/18/12 14:14	PER	7440-47-3	
Cobalt	2.22	mg/kg	0.20	6020	06/18/12 14:14	PER	7440-48-4	
Copper	5.98	mg/kg	0.20	6020	06/18/12 14:14	PER	7440-50-8	
Lead	3.57	mg/kg	0.20	6020	06/18/12 14:14	PER	7439-92-1	
Manganese	162	mg/kg	0.20	6020	06/18/12 14:14	PER	7439-96-5	
Mercury	0.0105	mg/kg	0.0058	7471A	06/15/12 14:23	JRT	7439-97-6	
Nickel	6.16	mg/kg	0.20	6020	06/18/12 14:14	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/18/12 14:14	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/18/12 14:14	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/18/12 14:14	PER	7440-28-0	
Vanadium	4.66	mg/kg	0.20	6020	06/18/12 14:14	PER	7440-62-2	
Zinc	11.7	mg/kg	1.0	6020	06/18/12 14:14	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	208-96-8	X
Acetophenone	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	98-86-2	X
Anthracene	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	120-12-7	X
Atrazine	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	1912-24-9	X
1,1'-Biphenyl	1,000	ug/kg	1,000	8270C	06/18/12 20:48	PL	92-52-4	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	101-55-3	X
di-n-Butyl phthalate	Not detected	ug/kg	2,000	8270C	06/18/12 20:48	PL	84-74-2	X
Benzaldehyde	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	100-52-7	X
Benzo(a)anthracene	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	205-99-2	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.17 (continued)

Sample Tag: SB-A1-DUP95

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	191-24-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	207-08-9	X
Butyl benzyl phthalate	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	85-68-7	X
2-Chloronaphthalene	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	91-58-7	X
2-Chlorophenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	95-57-8	X
4-Chloro-3-methylphenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	59-50-7	X
4-Chloroaniline	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	106-47-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	7005-72-3	X
Caprolactam	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	105-60-2	X
Carbazole	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	86-74-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	108-60-1	X
Chrysene	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	218-01-9	X
2,4-Dichlorophenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	120-83-2	X
2,4-Dimethylphenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	105-67-9	X
2,4-Dinitrophenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	606-20-2	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	91-94-1	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	534-52-1	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,000	8270C	06/18/12 20:48	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	132-64-9	X
Diethyl phthalate	Not detected	ug/kg	2,000	8270C	06/18/12 20:48	PL	84-66-2	X
Dimethyl phthalate	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	131-11-3	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	2,000	8270C	06/18/12 20:48	PL	117-81-7	X
Fluoranthene	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	206-44-0	X
Fluorene	1,000	ug/kg	1,000	8270C	06/18/12 20:48	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	193-39-5	X
Isophorone	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	78-59-1	X
2-Methylnaphthalene	10,000	ug/kg	1,000	8270C	06/18/12 20:48	PL	91-57-6	X
2-Methylphenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	95-48-7	X
3-, 4-Methylphenol	Not detected	ug/kg	2,000	8270C	06/18/12 20:48	PL	3/4-Cresol	X
2-Nitroaniline	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	88-74-4	X
2-Nitrophenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	88-75-5	X
3-Nitroaniline	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	100-01-6	X
4-Nitrophenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	100-02-7	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	621-64-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	86-30-6	X
Naphthalene	3,000	ug/kg	1,000	8270C	06/18/12 20:48	PL	91-20-3	X
Nitrobenzene	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	98-95-3	X
di-n-Octyl phthalate	Not detected	ug/kg	2,000	8270C	06/18/12 20:48	PL	117-84-0	X
Pentachlorophenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	87-86-5	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.17 (continued)

Sample Tag: SB-A1-DUP95

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenanthrene	2,000	ug/kg	1,000	8270C	06/18/12 20:48	PL	85-01-8	X
Phenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	108-95-2	X
Pyrene	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	129-00-0	X
2,4,5-Trichlorophenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	1,000	8270C	06/18/12 20:48	PL	88-06-2	X
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/14/12 21:28	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	76-13-1	
Acetone	Not detected	ug/kg	660	5035/8260B	06/14/12 21:28	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	660	5035/8260B	06/14/12 21:28	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	660	5035/8260B	06/14/12 21:28	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	660	5035/8260B	06/14/12 21:28	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	660	5035/8260B	06/14/12 21:28	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	75-27-4	
Methyl cyclohexane	280	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	79-34-5	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.17 (continued)

Sample Tag: SB-A1-DUP95

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	280	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/14/12 21:28	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	100-42-5	
Isopropylbenzene	390	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:28	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.18
Sample Tag: SB-A1-RQ78_11-15
Collected Date/Time: 06/07/2012 15:05
Matrix: Groundwater
COC Reference: 69157

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.8	IR
2	40ml Glass	HCL	Yes	4.8	IR
1	125ml Plastic	HNO3	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	06/11/12 21:53	EMR		
Mercury Digestion	Completed			7471A	06/15/12 12:15	JRH		
Metal Digestion	Completed			3015A	06/13/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	6020	06/13/12 18:20	SLS	7440-36-0	
Arsenic, Dissolved	0.052	mg/L	0.002	6020	06/13/12 18:20	SLS	7440-38-2	
Barium, Dissolved	0.167	mg/L	0.010	6020	06/13/12 18:20	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	6020	06/13/12 18:20	SLS	7440-41-7	
Boron, Dissolved	0.04	mg/L	0.04	6020	06/13/12 18:20	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	6020	06/13/12 18:20	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	6020	06/13/12 18:20	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	6020	06/13/12 18:20	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	6020	06/13/12 18:20	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	6020	06/13/12 18:20	SLS	7439-92-1	
Manganese, Dissolved	0.235	mg/L	0.010	6020	06/13/12 18:20	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	7471A	06/15/12 14:48	JRT	7439-97-6	
Nickel, Dissolved	0.011	mg/L	0.010	6020	06/13/12 18:20	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	6020	06/13/12 18:20	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	6020	06/13/12 18:20	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.002	6020	06/13/12 18:20	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.002	6020	06/13/12 18:20	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	6020	06/13/12 18:20	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	8270C	06/13/12 17:30	JGH	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	8270C	06/13/12 17:30	JGH	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	83-32-9	1
Acenaphthylene	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	208-96-8	1
Acetophenone	Not detected	ug/L	6	8270C	06/15/12 17:54	JGH	98-86-2	XS1
Anthracene	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	120-12-7	1
Atrazine	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	1912-24-9	1
1,1'-Biphenyl	3	ug/L	1	8270C	06/15/12 17:54	JGH	92-52-4	1
4-Bromophenyl phenyl ether	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	101-55-3	1
di-n-Butyl phthalate	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	84-74-2	1
Benzaldehyde	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	100-52-7	1
Benzo(a)anthracene	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	56-55-3	1

1-No duplicate amber available for re-extraction.

X-Elevated reporting limit due to matrix interference S-Surrogate recovery outside of control limits



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.18 (continued)

Sample Tag: SB-A1-RQ78_11-15

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Benzo(a)pyrene	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	50-32-8	1
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	205-99-2	1
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	191-24-2	1
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	207-08-9	1
Butyl benzyl phthalate	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	85-68-7	1
2-Chloronaphthalene	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	91-58-7	1
2-Chlorophenol	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	95-57-8	S1
4-Chloro-3-methylphenol	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	59-50-7	1
4-Chloroaniline	Not detected	ug/L	2	8270C	06/15/12 17:54	JGH	106-47-8	1
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	7005-72-3	1
Caprolactam	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	105-60-2	1
Carbazole	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	86-74-8	1
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	111-91-1	1
bis(2-Chloroethyl)ether	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	111-44-4	S1
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	108-60-1	S1
Chrysene	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	218-01-9	1
2,4-Dichlorophenol	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	120-83-2	1
2,4-Dimethylphenol	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	105-67-9	1
2,4-Dinitrophenol	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	51-28-5	1
2,4-Dinitrotoluene	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	121-14-2	1
2,6-Dinitrotoluene	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	606-20-2	1
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	534-52-1	1
Dibenzo(ah)anthracene	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	53-70-3	1
Dibenzofuran	1	ug/L	1	8270C	06/15/12 17:54	JGH	132-64-9	1
Diethyl phthalate	Not detected	ug/L	2	8270C	06/15/12 17:54	JGH	84-66-2	1
Dimethyl phthalate	8	ug/L	2	8270C	06/15/12 17:54	JGH	131-11-3	B1
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	8270C	06/15/12 17:54	JGH	117-81-7	1
Fluoranthene	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	206-44-0	1
Fluorene	1	ug/L	1	8270C	06/15/12 17:54	JGH	86-73-7	1
Hexachlorobutadiene	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	87-68-3	1
Hexachlorocyclopentadiene	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	77-47-4	1
Hexachloroethane	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	67-72-1	S1
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	193-39-5	1
Isophorone	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	78-59-1	1
2-Methylnaphthalene	36	ug/L	1	8270C	06/15/12 17:54	JGH	91-57-6	1
2-Methylphenol	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	95-48-7	S1
3-, 4-Methylphenol	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	3/4-Cresol	S1
2-Nitroaniline	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	88-74-4	1
2-Nitrophenol	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	88-75-5	1
3-Nitroaniline	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	99-09-2	1
4-Nitroaniline	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	100-01-6	1
4-Nitrophenol	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	100-02-7	1
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	621-64-7	S1
N-Nitrosodiphenylamine	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	86-30-6	1
Naphthalene	65	ug/L	1	8270C	06/15/12 17:54	JGH	91-20-3	1
Nitrobenzene	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	98-95-3	1

1-No duplicate amber available for re-extraction.

S-Surrogate recovery outside of control limits

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.18 (continued)

Sample Tag: SB-A1-RQ78_11-15

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
di-n-Octyl phthalate	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	117-84-0	1
Pentachlorophenol	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	87-86-5	1
Phenanthrene	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	85-01-8	1
Phenol	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	108-95-2	S1
Pyrene	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	129-00-0	1
2,4,5-Trichlorophenol	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	95-95-4	1
2,4,6-Trichlorophenol	Not detected	ug/L	1	8270C	06/15/12 17:54	JGH	88-06-2	1
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	06/28/12 18:24	JGH	123-91-1	2F
1,4-Dioxane	Not detected	ug/L	5,000	8260B	06/14/12 15:39	WAT	123-91-1	X
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	76-13-1	X
Acetone	Not detected	ug/L	500	8260B	06/14/12 15:39	WAT	67-64-1	X
Carbon disulfide	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	75-15-0	X
Methyl Acetate	Not detected	ug/L	500	8260B	06/14/12 15:39	WAT	79-20-9	X
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	1634-04-4	X
2-Butanone (MEK)	Not detected	ug/L	500	8260B	06/14/12 15:39	WAT	78-93-3	X
Dichlorodifluoromethane	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	75-71-8	X
Chloromethane	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	74-87-3	X
Vinyl chloride	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	75-01-4	X
Bromomethane	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	74-83-9	X
Chloroethane	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	75-00-3	X
Trichlorofluoromethane	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	75-69-4	X
1,1-Dichloroethene	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	75-35-4	X
Methylene chloride	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	75-09-2	X
trans-1,2-Dichloroethene	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	156-60-5	X
1,1-Dichloroethane	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	75-34-3	X
cis-1,2-Dichloroethene	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	156-59-2	X
Chloroform	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	67-66-3	X
1,1,1-Trichloroethane	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	71-55-6	X
Cyclohexane	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	110-82-7	X
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	500	8260B	06/14/12 15:39	WAT	108-10-1	X
2-Hexanone	Not detected	ug/L	500	8260B	06/14/12 15:39	WAT	591-78-6	X
Carbon tetrachloride	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	56-23-5	X
Benzene	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	71-43-2	X
1,2-Dichloroethane	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	107-06-2	X
Trichloroethene	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	79-01-6	X
1,2-Dichloropropane	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	78-87-5	X
Bromodichloromethane	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	75-27-4	X
Methyl cyclohexane	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	108-87-2	X
cis-1,3-Dichloropropene	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	10061-01-5	X
Toluene	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	108-88-3	X
trans-1,3-Dichloropropene	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	10061-02-6	X

1-No duplicate amber available for re-extraction.

S-Surrogate recovery outside of control limits

2-Analysis performed outside of holding time per client request. F-Analysis run outside of holding time

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.18 (continued)

Sample Tag: SB-A1-RQ78_11-15

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
1,1,2-Trichloroethane	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	79-00-5	X
Tetrachloroethene	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	127-18-4	X
Dibromochloromethane	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	124-48-1	X
1,2-Dibromoethane	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	106-93-4	X
Chlorobenzene	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	108-90-7	X
1,1,2,2-Tetrachloroethane	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	79-34-5	X
Ethylbenzene	50	ug/L	50	8260B	06/14/12 15:39	WAT	100-41-4	X
p,m-Xylene	Not detected	ug/L	100	8260B	06/14/12 15:39	WAT		X
o-Xylene	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	95-47-6	X
Styrene	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	100-42-5	X
Isopropylbenzene	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	98-82-8	X
Bromoform	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	75-25-2	X
1,3-Dichlorobenzene	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	541-73-1	X
1,4-Dichlorobenzene	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	106-46-7	X
1,2-Dichlorobenzene	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	95-50-1	X
1,2,4-Trichlorobenzene	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	120-82-1	X
1,2-Dibromo-3-chloropropane	Not detected	ug/L	50	8260B	06/14/12 15:39	WAT	96-12-8	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.19
Sample Tag: SB-A1-RQ78_17-18
Collected Date/Time: 06/07/2012 15:25
Matrix: Soil
COC Reference: 69157

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/12/12 9:54	CCM		
Mercury Digestion	Completed			7471A	06/15/12 09:30	JRH		
Metal Digestion	Completed			3050B	06/15/12 09:30	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	06/11/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.22	6020	06/18/12 14:16	PER	7440-36-0	
Arsenic	2.42	mg/kg	0.11	6020	06/18/12 14:16	PER	7440-38-2	
Barium	74.4	mg/kg	1.1	6020	06/18/12 14:16	PER	7440-39-3	
Beryllium	0.45	mg/kg	0.22	6020	06/18/12 14:16	PER	7440-41-7	
Boron	Not detected	mg/kg	4.4	6020	06/18/12 14:16	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.11	6020	06/18/12 14:16	PER	7440-43-9	
Chromium	16.1	mg/kg	0.22	6020	06/18/12 14:16	PER	7440-47-3	
Cobalt	8.41	mg/kg	0.22	6020	06/18/12 14:16	PER	7440-48-4	
Copper	15.6	mg/kg	0.22	6020	06/18/12 14:16	PER	7440-50-8	
Lead	7.73	mg/kg	0.22	6020	06/18/12 14:16	PER	7439-92-1	
Manganese	433	mg/kg	0.22	6020	06/18/12 14:16	PER	7439-96-5	
Mercury	0.0210	mg/kg	0.006	7471A	06/15/12 14:25	JRT	7439-97-6	
Nickel	22.9	mg/kg	0.22	6020	06/18/12 14:16	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.22	6020	06/18/12 14:16	PER	7782-49-2	
Silver	Not detected	mg/kg	0.11	6020	06/18/12 14:16	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.22	6020	06/18/12 14:16	PER	7440-28-0	
Vanadium	20.0	mg/kg	0.22	6020	06/18/12 14:16	PER	7440-62-2	
Zinc	34.3	mg/kg	1.1	6020	06/18/12 14:16	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 15:00	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.19 (continued)

Sample Tag: SB-A1-RQ78_17-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/18/12 15:00	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 15:00	PL	84-66-2	
Dimethyl phthalate	80	ug/kg	40	8270C	06/18/12 15:00	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/18/12 15:00	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/18/12 15:00	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 15:00	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.19 (continued)

Sample Tag: SB-A1-RQ78_17-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 15:00	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/14/12 21:47	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	76-13-1	
Acetone	Not detected	ug/kg	720	5035/8260B	06/14/12 21:47	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	720	5035/8260B	06/14/12 21:47	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	720	5035/8260B	06/14/12 21:47	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	720	5035/8260B	06/14/12 21:47	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	720	5035/8260B	06/14/12 21:47	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/14/12 21:47	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.19 (continued)

Sample Tag: SB-A1-RQ78_17-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 21:47	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.20
Sample Tag: SB-A5.6-NI207_1-2
Collected Date/Time: 06/07/2012 15:58
Matrix: Soil
COC Reference: 69157

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/12/12 9:54	CCM		
Mercury Digestion	Completed			7471A	06/15/12 09:30	JRH		
Metal Digestion	Completed			3050B	06/15/12 09:30	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	06/11/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/18/12 14:18	PER	7440-36-0	
Arsenic	1.62	mg/kg	0.10	6020	06/18/12 14:18	PER	7440-38-2	
Barium	100	mg/kg	1.0	6020	06/18/12 14:18	PER	7440-39-3	
Beryllium	0.71	mg/kg	0.21	6020	06/18/12 14:18	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/18/12 14:18	PER	7440-42-8	
Cadmium	0.66	mg/kg	0.10	6020	06/18/12 14:18	PER	7440-43-9	
Chromium	9.55	mg/kg	0.21	6020	06/18/12 14:18	PER	7440-47-3	
Cobalt	6.86	mg/kg	0.21	6020	06/18/12 14:18	PER	7440-48-4	
Copper	13.9	mg/kg	0.21	6020	06/18/12 14:18	PER	7440-50-8	
Lead	44.0	mg/kg	0.21	6020	06/18/12 14:18	PER	7439-92-1	
Manganese	87.3	mg/kg	0.21	6020	06/18/12 14:18	PER	7439-96-5	
Mercury	0.0502	mg/kg	0.0057	7471A	06/15/12 14:27	JRT	7439-97-6	
Nickel	8.97	mg/kg	0.21	6020	06/18/12 14:18	PER	7440-02-0	
Selenium	0.57	mg/kg	0.21	6020	06/18/12 14:18	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/18/12 14:18	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/18/12 14:18	PER	7440-28-0	
Vanadium	14.8	mg/kg	0.21	6020	06/18/12 14:18	PER	7440-62-2	
Zinc	43.3	mg/kg	1.0	6020	06/18/12 14:18	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 15:34	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.20 (continued)

Sample Tag: SB-A5.6-NI207_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/18/12 15:34	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 15:34	PL	84-66-2	
Dimethyl phthalate	100	ug/kg	40	8270C	06/18/12 15:34	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/18/12 15:34	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/18/12 15:34	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 15:34	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.20 (continued)

Sample Tag: SB-A5.6-NI207_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 15:34	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/14/12 22:06	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	76-13-1	
Acetone	Not detected	ug/kg	690	5035/8260B	06/14/12 22:06	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	690	5035/8260B	06/14/12 22:06	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	690	5035/8260B	06/14/12 22:06	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	690	5035/8260B	06/14/12 22:06	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	690	5035/8260B	06/14/12 22:06	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/14/12 22:06	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.20 (continued)

Sample Tag: SB-A5.6-NI207_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 22:06	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.21
Sample Tag: SB-A5.6-NQ208_1-2
Collected Date/Time: 06/07/2012 16:05
Matrix: Soil
COC Reference: 69157

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/12/12 9:54	CCM		
Mercury Digestion	Completed			7471A	06/15/12 09:30	JRH		
Metal Digestion	Completed			3050B	06/15/12 09:30	PER		

Inorganics

Total Solids	94	%	1	Std M 2540 B	06/11/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/18/12 14:20	PER	7440-36-0	
Arsenic	1.10	mg/kg	0.10	6020	06/18/12 14:20	PER	7440-38-2	
Barium	8.79	mg/kg	1.0	6020	06/18/12 14:20	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/18/12 14:20	PER	7440-41-7	
Boron	Not detected	mg/kg	4.0	6020	06/18/12 14:20	PER	7440-42-8	
Cadmium	0.11	mg/kg	0.10	6020	06/18/12 14:20	PER	7440-43-9	
Chromium	2.52	mg/kg	0.20	6020	06/18/12 14:20	PER	7440-47-3	
Cobalt	25.7	mg/kg	0.20	6020	06/18/12 14:20	PER	7440-48-4	
Copper	8.00	mg/kg	0.20	6020	06/18/12 14:20	PER	7440-50-8	
Lead	14.0	mg/kg	0.20	6020	06/18/12 14:20	PER	7439-92-1	
Manganese	117	mg/kg	0.20	6020	06/18/12 14:20	PER	7439-96-5	
Mercury	0.0104	mg/kg	0.0053	7471A	06/15/12 14:30	JRT	7439-97-6	
Nickel	7.89	mg/kg	0.20	6020	06/18/12 14:20	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	06/18/12 14:20	PER	7782-49-2	
Silver	3.78	mg/kg	0.10	6020	06/18/12 14:20	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/18/12 14:20	PER	7440-28-0	
Vanadium	3.49	mg/kg	0.20	6020	06/18/12 14:20	PER	7440-62-2	
Zinc	18.7	mg/kg	1.0	6020	06/18/12 14:20	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/18/12 16:09	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	50-32-8	
Benzo(b)fluoranthene	60	ug/kg	40	8270C	06/18/12 16:09	PL	205-99-2	p

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.21 (continued)

Sample Tag: SB-A5.6-NQ208_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	191-24-2	
Benzo(k)fluoranthene	60	ug/kg	40	8270C	06/18/12 16:09	PL	207-08-9	p
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/18/12 16:09	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/18/12 16:09	PL	84-66-2	
Dimethyl phthalate	160	ug/kg	40	8270C	06/18/12 16:09	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/18/12 16:09	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/18/12 16:09	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/18/12 16:09	PL	117-84-0	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.21 (continued)

Sample Tag: SB-A5.6-NQ208_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 16:09	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	5,000	8260B	06/14/12 22:26	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	76-13-1	
Acetone	Not detected	ug/kg	540	5035/8260B	06/14/12 22:26	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	540	5035/8260B	06/14/12 22:26	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	540	5035/8260B	06/14/12 22:26	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	156-59-2	
Chloroform	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	540	5035/8260B	06/14/12 22:26	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	540	5035/8260B	06/14/12 22:26	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	56-23-5	
Benzene	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	10061-01-5	
Toluene	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	79-34-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.21 (continued)

Sample Tag: SB-A5.6-NQ208_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/14/12 22:26	WAT		
o-Xylene	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	95-47-6	
Styrene	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	98-82-8	
Bromoform	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	50	5035/8260B	06/14/12 22:26	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.22
Sample Tag: SB-A5.6-NQ208_7-8
Collected Date/Time: 06/07/2012 16:25
Matrix: Soil
COC Reference: 69157

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/12/12 9:54	CCM		
Mercury Digestion	Completed			7471A	06/15/12 09:30	JRH		
Metal Digestion	Completed			3050B	06/15/12 09:30	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	06/11/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/18/12 14:22	PER	7440-36-0	
Arsenic	0.97	mg/kg	0.10	6020	06/18/12 14:22	PER	7440-38-2	
Barium	40.0	mg/kg	1.0	6020	06/18/12 14:22	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/18/12 14:22	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/18/12 14:22	PER	7440-42-8	
Cadmium	0.14	mg/kg	0.10	6020	06/18/12 14:22	PER	7440-43-9	
Chromium	3.04	mg/kg	0.20	6020	06/18/12 14:22	PER	7440-47-3	
Cobalt	1.76	mg/kg	0.20	6020	06/18/12 14:22	PER	7440-48-4	
Copper	1.83	mg/kg	0.20	6020	06/18/12 14:22	PER	7440-50-8	
Lead	3.78	mg/kg	0.20	6020	06/18/12 14:22	PER	7439-92-1	
Manganese	68.8	mg/kg	0.20	6020	06/18/12 14:22	PER	7439-96-5	
Mercury	0.0262	mg/kg	0.0058	7471A	06/15/12 14:32	JRT	7439-97-6	
Nickel	3.11	mg/kg	0.20	6020	06/18/12 14:22	PER	7440-02-0	
Selenium	0.29	mg/kg	0.20	6020	06/18/12 14:22	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/18/12 14:22	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/18/12 14:22	PER	7440-28-0	
Vanadium	5.21	mg/kg	0.20	6020	06/18/12 14:22	PER	7440-62-2	
Zinc	6.52	mg/kg	1.0	6020	06/18/12 14:22	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 16:44	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.22 (continued)

Sample Tag: SB-A5.6-NQ208_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/18/12 16:44	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 16:44	PL	84-66-2	
Dimethyl phthalate	70	ug/kg	40	8270C	06/18/12 16:44	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/18/12 16:44	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/18/12 16:44	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 16:44	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.22 (continued)

Sample Tag: SB-A5.6-NQ208_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 16:44	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/15/12 15:00	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	76-13-1	
Acetone	Not detected	ug/kg	680	5035/8260B	06/15/12 15:00	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	680	5035/8260B	06/15/12 15:00	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	680	5035/8260B	06/15/12 15:00	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	680	5035/8260B	06/15/12 15:00	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	680	5035/8260B	06/15/12 15:00	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	106-93-4	
Chlorobenzene	70	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/15/12 15:00	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.22 (continued)

Sample Tag: SB-A5.6-NQ208_7-8

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/15/12 15:00	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.23
Sample Tag: SB-A5.6-NQ208_16-17
Collected Date/Time: 06/07/2012 16:30
Matrix: Soil
COC Reference: 69157

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/12/12 9:54	CCM		
Mercury Digestion	Completed			7471A	06/15/12 09:30	JRH		
Metal Digestion	Completed			3050B	06/15/12 09:30	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	06/11/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/18/12 14:24	PER	7440-36-0	
Arsenic	1.19	mg/kg	0.10	6020	06/18/12 14:24	PER	7440-38-2	
Barium	28.1	mg/kg	1.0	6020	06/18/12 14:24	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/18/12 14:24	PER	7440-41-7	
Boron	Not detected	mg/kg	4.2	6020	06/18/12 14:24	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/18/12 14:24	PER	7440-43-9	
Chromium	6.00	mg/kg	0.21	6020	06/18/12 14:24	PER	7440-47-3	
Cobalt	3.69	mg/kg	0.21	6020	06/18/12 14:24	PER	7440-48-4	
Copper	8.82	mg/kg	0.21	6020	06/18/12 14:24	PER	7440-50-8	
Lead	4.15	mg/kg	0.21	6020	06/18/12 14:24	PER	7439-92-1	
Manganese	248	mg/kg	0.21	6020	06/18/12 14:24	PER	7439-96-5	
Mercury	0.0121	mg/kg	0.0055	7471A	06/15/12 14:34	JRT	7439-97-6	
Nickel	11.3	mg/kg	0.21	6020	06/18/12 14:24	PER	7440-02-0	
Selenium	0.36	mg/kg	0.21	6020	06/18/12 14:24	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/18/12 14:24	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/18/12 14:24	PER	7440-28-0	
Vanadium	8.04	mg/kg	0.21	6020	06/18/12 14:24	PER	7440-62-2	
Zinc	14.4	mg/kg	1.0	6020	06/18/12 14:24	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	06/18/12 17:19	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.23 (continued)

Sample Tag: SB-A5.6-NQ208_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	06/18/12 17:19	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	06/18/12 17:19	PL	84-66-2	
Dimethyl phthalate	90	ug/kg	40	8270C	06/18/12 17:19	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	70	8270C	06/18/12 17:19	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	70	8270C	06/18/12 17:19	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	70	8270C	06/18/12 17:19	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.23 (continued)

Sample Tag: SB-A5.6-NQ208_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 17:19	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/14/12 18:39	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	76-13-1	
Acetone	Not detected	ug/kg	630	5035/8260B	06/14/12 18:39	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	630	5035/8260B	06/14/12 18:39	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	630	5035/8260B	06/14/12 18:39	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	630	5035/8260B	06/14/12 18:39	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	630	5035/8260B	06/14/12 18:39	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/14/12 18:39	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.23 (continued)

Sample Tag: SB-A5.6-NQ208_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 18:39	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.24

Sample Tag: SB-A5.6-NI207_6-7

Collected Date/Time: 06/07/2012 16:42

Matrix: Soil

COC Reference: 69157

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/12/12 9:54	CCM		
Mercury Digestion	Completed			7471A	06/15/12 12:30	JRH		
Metal Digestion	Completed			3050B	06/15/12 09:30	PER		

Inorganics

Total Solids	86	%	1	Std M 2540 B	06/11/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	6020	06/18/12 14:26	PER	7440-36-0	
Arsenic	0.71	mg/kg	0.10	6020	06/18/12 14:26	PER	7440-38-2	
Barium	34.6	mg/kg	1.0	6020	06/18/12 14:26	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.21	6020	06/18/12 14:26	PER	7440-41-7	
Boron	Not detected	mg/kg	4.3	6020	06/18/12 14:26	PER	7440-42-8	
Cadmium	0.15	mg/kg	0.10	6020	06/18/12 14:26	PER	7440-43-9	
Chromium	7.44	mg/kg	0.21	6020	06/18/12 14:26	PER	7440-47-3	
Cobalt	2.80	mg/kg	0.21	6020	06/18/12 14:26	PER	7440-48-4	
Copper	5.68	mg/kg	0.21	6020	06/18/12 14:26	PER	7440-50-8	
Lead	4.42	mg/kg	0.21	6020	06/18/12 14:26	PER	7439-92-1	
Manganese	209	mg/kg	0.21	6020	06/18/12 14:26	PER	7439-96-5	
Mercury	0.0095	mg/kg	0.0056	7471A	06/15/12 15:04	JRT	7439-97-6	
Nickel	11.0	mg/kg	0.21	6020	06/18/12 14:26	PER	7440-02-0	
Selenium	0.23	mg/kg	0.21	6020	06/18/12 14:26	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/18/12 14:26	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.21	6020	06/18/12 14:26	PER	7440-28-0	
Vanadium	7.82	mg/kg	0.21	6020	06/18/12 14:26	PER	7440-62-2	
Zinc	16.0	mg/kg	1.0	6020	06/18/12 14:26	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 17:54	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.24 (continued)

Sample Tag: SB-A5.6-NI207_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/18/12 17:54	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 17:54	PL	84-66-2	
Dimethyl phthalate	110	ug/kg	40	8270C	06/18/12 17:54	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/18/12 17:54	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/18/12 17:54	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 17:54	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.24 (continued)

Sample Tag: SB-A5.6-NI207_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 17:54	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	7,000	8260B	06/14/12 18:57	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	76-13-1	
Acetone	Not detected	ug/kg	660	5035/8260B	06/14/12 18:57	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	660	5035/8260B	06/14/12 18:57	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	660	5035/8260B	06/14/12 18:57	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	660	5035/8260B	06/14/12 18:57	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	660	5035/8260B	06/14/12 18:57	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/14/12 18:57	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.24 (continued)

Sample Tag: SB-A5.6-NI207_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	06/14/12 18:57	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.25

Sample Tag: SB-A5.6-NI207_16-17

Collected Date/Time: 06/07/2012 16:48

Matrix: Soil

COC Reference: 69157

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	06/12/12 9:54	CCM		
Mercury Digestion	Completed			7471A	06/15/12 12:30	JRH		
Metal Digestion	Completed			3050B	06/15/12 09:30	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	06/11/12 17:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.20	6020	06/18/12 14:28	PER	7440-36-0	
Arsenic	1.48	mg/kg	0.10	6020	06/18/12 14:28	PER	7440-38-2	
Barium	23.9	mg/kg	1.0	6020	06/18/12 14:28	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	6020	06/18/12 14:28	PER	7440-41-7	
Boron	Not detected	mg/kg	4.1	6020	06/18/12 14:28	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	6020	06/18/12 14:28	PER	7440-43-9	
Chromium	6.42	mg/kg	0.20	6020	06/18/12 14:28	PER	7440-47-3	
Cobalt	4.05	mg/kg	0.20	6020	06/18/12 14:28	PER	7440-48-4	
Copper	10.7	mg/kg	0.20	6020	06/18/12 14:28	PER	7440-50-8	
Lead	4.29	mg/kg	0.20	6020	06/18/12 14:28	PER	7439-92-1	
Manganese	275	mg/kg	0.20	6020	06/18/12 14:28	PER	7439-96-5	
Mercury	0.0134	mg/kg	0.0056	7471A	06/15/12 15:06	JRT	7439-97-6	
Nickel	12.1	mg/kg	0.20	6020	06/18/12 14:28	PER	7440-02-0	
Selenium	0.23	mg/kg	0.20	6020	06/18/12 14:28	PER	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	06/18/12 14:28	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	6020	06/18/12 14:28	PER	7440-28-0	
Vanadium	8.32	mg/kg	0.20	6020	06/18/12 14:28	PER	7440-62-2	
Zinc	16.0	mg/kg	1.0	6020	06/18/12 14:28	PER	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 18:29	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	191-24-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.25 (continued)

Sample Tag: SB-A5.6-NI207_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	108-60-1	
Chrysene	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	06/18/12 18:29	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 18:29	PL	84-66-2	
Dimethyl phthalate	80	ug/kg	40	8270C	06/18/12 18:29	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	80	8270C	06/18/12 18:29	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	80	8270C	06/18/12 18:29	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	80	8270C	06/18/12 18:29	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.25 (continued)

Sample Tag: SB-A5.6-NI207_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	06/18/12 18:29	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/kg	6,000	8260B	06/14/12 19:15	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	76-13-1	
Acetone	Not detected	ug/kg	620	5035/8260B	06/14/12 19:15	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	620	5035/8260B	06/14/12 19:15	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	620	5035/8260B	06/14/12 19:15	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	620	5035/8260B	06/14/12 19:15	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	620	5035/8260B	06/14/12 19:15	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	06/14/12 19:15	WAT		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S52806.25 (continued)

Sample Tag: SB-A5.6-NI207_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
o-Xylene	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	06/14/12 19:15	WAT	120-82-1	

Merit

Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
 Phone (517) 332-0167 Fax (517) 332-4034
 www.meritlabs.com

C.O.C. PAGE #

OF

2

69160

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME **Randy Christensen**

COMPANY **ARCADIS**

ADDRESS **10559 Citaton Drive Suite 100**

CITY **Brighton** STATE **MI** ZIP CODE **48116**

PHONE NO. **810-225-1910** FAX NO. P.O. NO. **PO**

E-MAIL ADDRESS **randy.christensen@arcadis-us.com** QUOTE NO. **Task# 5**

CONTACT NAME **Dave Favero** ☐ SAME

COMPANY **RACER TRUST**

ADDRESS **2930 Ecorse Road**

CITY **Ypsilanti** STATE **MI** ZIP CODE **48198**

PHONE NO. **313-486-9208** E-MAIL ADDRESS **dfavero@racertrust.org**

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME **Lansing Plant 2 Project# 800644 80 2012** SAMPLER(S) - PLEASE PRINT/SIGN NAME **Megan McCreary / Megan McCreary**

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☒ OTHER **5 day TAT**

DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW-GROUNDWATER VWW-WASTEWATER S-SOIL L-LIQUID SD-SOLID
 SL-SLUDGE DW-DRINKING WATER O-OIL WP-WIFE A-AIR W-WASTE

Containers & Preservatives

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HQ	HNO3	H2SO4	NaOH	MeOH	OTHER
580601	10/11/12	0811	SB-A20-EQ20-1-2	S	1	X						
02		0904	SB-A20-EQ20-6-7	S	1	X						
03		0906	SB-A20-EQ20-16-17	S	1	X						
04			SB-A20-DUP93	S	1	X						
05		0930	SB-A20-EM25-1-2	S	1	X						
06		0951	SB-A20-EM25-8-9	S	1	X						
07		0959	SB-A20-EQ29-1-2	S	1	X						
08		1008	SB-A20-EQ29-8-9	S	1	X						
09		1027	SB-A20-EQ29-15-16	S	1	X						
10			SB-A20-DUP94	S	1	X						
11		1140	SB-A20-EM25-1-2	S	1	X						
12		1150	SB-A20-EM25-8-9	S	1	X						

VOCs/ 1,4 Dioxane

SVOCs

PCBs

Metals (w/Hg)

Certifications

☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations

☐ Detroit ☐ New York

☐ Other **Lansing**

Special Instructions

RELINQUISHED BY: **Megan McCreary** ☒ Sampler DATE **6-8-12** TIME **10:15**

SIGNATURE/ORGANIZATION **Megan McCreary**

RELINQUISHED BY: **John McCreary** DATE **6-8-12** TIME **10:15**

SIGNATURE/ORGANIZATION **John McCreary**

RELINQUISHED BY: DATE TIME

SIGNATURE/ORGANIZATION

RELINQUISHED BY: DATE TIME

SIGNATURE/ORGANIZATION

RELINQUISHED BY: DATE TIME

SIGNATURE/ORGANIZATION

RELINQUISHED BY: **Steven Ball** DATE **08/20/12** TIME **11:00**

SIGNATURE/ORGANIZATION

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL **4.8**

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1.15.12



Analytical Laboratory Report

Supplemental Report

Report ID: S53789.01(02)

Generated on 09/11/2012

Replaces report S53789.01(01) generated on 09/10/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S53789.01-S53789.20

Project: Lansing Plant #2 Project# B0064479.2012

Collected Date: 09/05/2012

Submitted Date/Time: 09/06/2012 11:30

Sampled by: Alex Villhauer

P.O. #: PO125047

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane results added to water samples.

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Supplemental Report

Sample Summary (20 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S53789.01	SB-A2-PF68_3-4	Soil	09/05/2012 10:38
S53789.02	SB-A2-PF68_6-7	Soil	09/05/2012 11:06
S53789.03	SB-A2-PF68_12.5-13.5	Soil	09/05/2012 11:15
S53789.04	SB-A2-PF68_19-20	Soil	09/05/2012 11:30
S53789.05	SB-A2-PF68_25-26	Soil	09/05/2012 12:16
S53789.06	SB-A2-PF68_29-30	Soil	09/05/2012 12:22
S53789.07	SB-A2-OX70_3-4	Soil	09/05/2012 13:48
S53789.08	SB-A2-OX70_9-10	Soil	09/05/2012 14:03
S53789.09	SB-A2-DUP1	Soil	09/05/2012 00:01
S53789.10	SB-A2-OX70_11-12	Soil	09/05/2012 14:17
S53789.11	SB-A2-OX70_16-17	Soil	09/05/2012 15:06
S53789.12	SB-A2-OX70_21-25	Groundwater	09/05/2012 16:45
S53789.13	SB-A2-OX70_29-30	Soil	09/05/2012 17:23
S53789.14	SB-A2-OX62_1-2	Soil	09/05/2012 17:50
S53789.15	SB-A2-OX62_5-6	Soil	09/05/2012 18:00
S53789.16	SB-A2-OX62_17-21	Groundwater	09/05/2012 18:40
S53789.17	SB-A2-OX62_23-24	Soil	09/05/2012 18:55
S53789.18	SB-A2-OX62_29-30	Soil	09/05/2012 19:19
S53789.19	Trip Blank	Methanol	09/05/2012 00:01
S53789.20	SB-A2-OX62_11-12	Soil	09/05/2012 18:11



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.01
Sample Tag: SB-A2-PF68_3-4
Collected Date/Time: 09/05/2012 10:38
Matrix: Soil
COC Reference: 69156

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	81	%	1	Std M 2540 B	09/08/12 10:00	WAR		
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Organics - Volatiles**TCL Volatile Organics HighLevl 5035/8260**

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	76-13-1	
Acetone	Not detected	ug/kg	750	5035/8260B	09/06/12 16:12	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	750	5035/8260B	09/06/12 16:12	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	750	5035/8260B	09/06/12 16:12	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	750	5035/8260B	09/06/12 16:12	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	750	5035/8260B	09/06/12 16:12	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	79-34-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.01 (continued)

Sample Tag: SB-A2-PF68_3-4

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/06/12 16:12	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:12	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.02
Sample Tag: SB-A2-PF68_6-7
Collected Date/Time: 09/05/2012 11:06
Matrix: Soil
COC Reference: 69156

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	88	%	1	Std M 2540 B	09/08/12 10:00	WAR		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	76-13-1	
Acetone	Not detected	ug/kg	620	5035/8260B	09/06/12 16:32	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	620	5035/8260B	09/06/12 16:32	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	620	5035/8260B	09/06/12 16:32	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	620	5035/8260B	09/06/12 16:32	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	620	5035/8260B	09/06/12 16:32	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	79-34-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.02 (continued)

Sample Tag: SB-A2-PF68_6-7

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/06/12 16:32	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 16:32	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.03
Sample Tag: SB-A2-PF68_12.5-13.5
Collected Date/Time: 09/05/2012 11:15
Matrix: Soil
COC Reference: 69156

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	91	%	1	Std M 2540 B	09/08/12 10:00	WAR		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	76-13-1	
Acetone	Not detected	ug/kg	660	5035/8260B	09/06/12 16:52	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	660	5035/8260B	09/06/12 16:52	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	660	5035/8260B	09/06/12 16:52	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	660	5035/8260B	09/06/12 16:52	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	660	5035/8260B	09/06/12 16:52	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	79-00-5	
Tetrachloroethene	90	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	79-34-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.03 (continued)

Sample Tag: SB-A2-PF68_12.5-13.5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/06/12 16:52	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 16:52	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.04
Sample Tag: SB-A2-PF68_19-20
Collected Date/Time: 09/05/2012 11:30
Matrix: Soil
COC Reference: 69156

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	90	%	1	Std M 2540 B	09/08/12 10:00	WAR		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	76-13-1	
Acetone	Not detected	ug/kg	660	5035/8260B	09/06/12 17:12	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	660	5035/8260B	09/06/12 17:12	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	660	5035/8260B	09/06/12 17:12	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	67-66-3	
1,1,1-Trichloroethane	300	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	660	5035/8260B	09/06/12 17:12	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	660	5035/8260B	09/06/12 17:12	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	79-34-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.04 (continued)

Sample Tag: SB-A2-PF68_19-20

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/06/12 17:12	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:12	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.05
Sample Tag: SB-A2-PF68_25-26
Collected Date/Time: 09/05/2012 12:16
Matrix: Soil
COC Reference: 69156

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	88	%	1	Std M 2540 B	09/08/12 10:00	WAR		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	76-13-1	
Acetone	Not detected	ug/kg	650	5035/8260B	09/06/12 17:32	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	650	5035/8260B	09/06/12 17:32	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	650	5035/8260B	09/06/12 17:32	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	67-66-3	
1,1,1-Trichloroethane	590	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	650	5035/8260B	09/06/12 17:32	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	650	5035/8260B	09/06/12 17:32	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	79-34-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.05 (continued)

Sample Tag: SB-A2-PF68_25-26

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/06/12 17:32	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 17:32	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.06
Sample Tag: SB-A2-PF68_29-30
Collected Date/Time: 09/05/2012 12:22
Matrix: Soil
COC Reference: 69156

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	94	%	1	Std M 2540 B	09/08/12 10:00	WAR		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	76-13-1	
Acetone	Not detected	ug/kg	580	5035/8260B	09/06/12 17:52	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	580	5035/8260B	09/06/12 17:52	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	580	5035/8260B	09/06/12 17:52	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	580	5035/8260B	09/06/12 17:52	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	580	5035/8260B	09/06/12 17:52	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	79-34-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.06 (continued)

Sample Tag: SB-A2-PF68_29-30

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/06/12 17:52	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 17:52	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.07
Sample Tag: SB-A2-OX70_3-4
Collected Date/Time: 09/05/2012 13:48
Matrix: Soil
COC Reference: 69156

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	90	%	1	Std M 2540 B	09/08/12 10:00	WAR		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	76-13-1	
Acetone	Not detected	ug/kg	640	5035/8260B	09/06/12 18:12	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	640	5035/8260B	09/06/12 18:12	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	640	5035/8260B	09/06/12 18:12	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	640	5035/8260B	09/06/12 18:12	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	640	5035/8260B	09/06/12 18:12	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	79-00-5	
Tetrachloroethene	1,800	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	79-34-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.07 (continued)

Sample Tag: SB-A2-OX70_3-4

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/06/12 18:12	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:12	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.08
Sample Tag: SB-A2-OX70_9-10
Collected Date/Time: 09/05/2012 14:03
Matrix: Soil
COC Reference: 69156

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	89	%	1	Std M 2540 B	09/08/12 10:00	WAR		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	76-13-1	
Acetone	Not detected	ug/kg	630	5035/8260B	09/06/12 18:33	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	630	5035/8260B	09/06/12 18:33	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	630	5035/8260B	09/06/12 18:33	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	67-66-3	
1,1,1-Trichloroethane	260	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	630	5035/8260B	09/06/12 18:33	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	630	5035/8260B	09/06/12 18:33	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	79-00-5	
Tetrachloroethene	8,240	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	79-34-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.08 (continued)

Sample Tag: SB-A2-OX70_9-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/06/12 18:33	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:33	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.09
Sample Tag: SB-A2-DUP1
Collected Date/Time: 09/05/2012 00:01
Matrix: Soil
COC Reference: 69156

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	89	%	1	Std M 2540 B	09/08/12 10:00	WAR		
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Organics - Volatiles**TCL Volatile Organics HighLevl 5035/8260**

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	76-13-1	
Acetone	Not detected	ug/kg	640	5035/8260B	09/06/12 18:53	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	640	5035/8260B	09/06/12 18:53	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	640	5035/8260B	09/06/12 18:53	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	640	5035/8260B	09/06/12 18:53	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	640	5035/8260B	09/06/12 18:53	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	79-00-5	
Tetrachloroethene	1,630	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	79-34-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.09 (continued)

Sample Tag: SB-A2-DUP1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/06/12 18:53	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 18:53	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.10

Sample Tag: SB-A2-OX70_11-12

Collected Date/Time: 09/05/2012 14:17

Matrix: Soil

COC Reference: 69156

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	89	%	1	Std M 2540 B	09/08/12 10:00	WAR		
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Organics - Volatiles**TCL Volatile Organics HighLevl 5035/8260**

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	76-13-1	
Acetone	Not detected	ug/kg	630	5035/8260B	09/06/12 19:13	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	630	5035/8260B	09/06/12 19:13	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	630	5035/8260B	09/06/12 19:13	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	630	5035/8260B	09/06/12 19:13	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	630	5035/8260B	09/06/12 19:13	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	79-00-5	
Tetrachloroethene	1,600	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	79-34-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.10 (continued)

Sample Tag: SB-A2-OX70_11-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/06/12 19:13	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:13	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.11
Sample Tag: SB-A2-OX70_16-17
Collected Date/Time: 09/05/2012 15:06
Matrix: Soil
COC Reference: 69156

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	90	%	1	Std M 2540 B	09/08/12 10:00	WAR		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	76-13-1	
Acetone	Not detected	ug/kg	600	5035/8260B	09/06/12 19:33	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	600	5035/8260B	09/06/12 19:33	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	600	5035/8260B	09/06/12 19:33	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	67-66-3	
1,1,1-Trichloroethane	120	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	600	5035/8260B	09/06/12 19:33	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	600	5035/8260B	09/06/12 19:33	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	79-00-5	
Tetrachloroethene	1,060	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	79-34-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.11 (continued)

Sample Tag: SB-A2-OX70_16-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/06/12 19:33	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:33	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.12
Sample Tag: SB-A2-OX70_21-25
Collected Date/Time: 09/05/2012 16:45
Matrix: Groundwater
COC Reference: 69156

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	09/07/12 16:15	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	09/07/12 19:00	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	09/07/12 19:00	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	09/07/12 19:00	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	75-69-4	
1,1-Dichloroethene	13	ug/L	1	SW8260B	09/07/12 19:00	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	156-60-5	
1,1-Dichloroethane	2	ug/L	1	SW8260B	09/07/12 19:00	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	67-66-3	
1,1,1-Trichloroethane	102	ug/L	1	SW8260B	09/07/12 19:00	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	09/07/12 19:00	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	09/07/12 19:00	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	107-06-2	
Trichloroethene	3	ug/L	1	SW8260B	09/07/12 19:00	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	79-00-5	
Tetrachloroethene	238	ug/L	1	SW8260B	09/07/12 19:00	JGH	127-18-4	E
Dibromochloromethane	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/07/12 19:00	JGH		

E-Concentration exceeds calibration range



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.12 (continued)

Sample Tag: SB-A2-OX70_21-25

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	09/07/12 19:00	JGH	96-12-8	
TCL Volatile Organics 8260 (Replicate 01)								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	76-13-1	Y
Acetone	Not detected	ug/L	50	SW8260B	09/10/12 14:17	JGH	67-64-1	Y
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	75-15-0	Y
Methyl Acetate	Not detected	ug/L	50	SW8260B	09/10/12 14:17	JGH	79-20-9	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	1634-04-4	Y
2-Butanone (MEK)	Not detected	ug/L	50	SW8260B	09/10/12 14:17	JGH	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	75-71-8	Y
Chloromethane	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	74-87-3	Y
Vinyl chloride	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	75-01-4	Y
Bromomethane	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	74-83-9	Y
Chloroethane	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	75-69-4	Y
1,1-Dichloroethene	9	ug/L	5	SW8260B	09/10/12 14:17	JGH	75-35-4	Y
Methylene chloride	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	156-59-2	Y
Chloroform	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	67-66-3	Y
1,1,1-Trichloroethane	78	ug/L	5	SW8260B	09/10/12 14:17	JGH	71-55-6	Y
Cyclohexane	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	110-82-7	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/10/12 14:17	JGH	108-10-1	Y
2-Hexanone	Not detected	ug/L	50	SW8260B	09/10/12 14:17	JGH	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	56-23-5	Y
Benzene	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	107-06-2	Y
Trichloroethene	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	75-27-4	Y
Methyl cyclohexane	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	108-87-2	Y
cis-1,3-Dichloropropene	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	10061-01-5	Y
Toluene	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	79-00-5	Y
Tetrachloroethene	225	ug/L	5	SW8260B	09/10/12 14:17	JGH	127-18-4	Y
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	124-48-1	Y
Chlorobenzene	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	108-90-7	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.12 (continued)

Sample Tag: SB-A2-OX70_21-25

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (Replicate 01) (continued)								
1,1,2,2-Tetrachloroethane	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	79-34-5	Y
Ethylbenzene	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	100-41-4	Y
p,m-Xylene	Not detected	ug/L	10	SW8260B	09/10/12 14:17	JGH		Y
o-Xylene	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	95-47-6	Y
Styrene	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	98-82-8	Y
Bromoform	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	75-25-2	Y
1,3-Dichlorobenzene	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	95-50-1	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	120-82-1	Y
1,2-Dibromoethane	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	106-93-4	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/10/12 14:17	JGH	96-12-8	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.13

Sample Tag: SB-A2-OX70_29-30

Collected Date/Time: 09/05/2012 17:23

Matrix: Soil

COC Reference: 67979

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	92	%	1	Std M 2540 B	09/08/12 10:00	WAR		
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Organics - Volatiles**TCL Volatile Organics HighLevl 5035/8260**

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	76-13-1	
Acetone	Not detected	ug/kg	590	5035/8260B	09/06/12 19:53	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	590	5035/8260B	09/06/12 19:53	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	590	5035/8260B	09/06/12 19:53	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	590	5035/8260B	09/06/12 19:53	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	590	5035/8260B	09/06/12 19:53	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	79-34-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.13 (continued)

Sample Tag: SB-A2-OX70_29-30

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/06/12 19:53	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 19:53	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.14

Sample Tag: SB-A2-OX62_1-2

Collected Date/Time: 09/05/2012 17:50

Matrix: Soil

COC Reference: 67979

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	86	%	1	Std M 2540 B	09/08/12 10:00	WAR		
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Organics - Volatiles**TCL Volatile Organics HighLevl 5035/8260**

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	76-13-1	
Acetone	Not detected	ug/kg	660	5035/8260B	09/06/12 20:12	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	660	5035/8260B	09/06/12 20:12	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	660	5035/8260B	09/06/12 20:12	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	660	5035/8260B	09/06/12 20:12	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	660	5035/8260B	09/06/12 20:12	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	79-34-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.14 (continued)

Sample Tag: SB-A2-OX62_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/06/12 20:12	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/06/12 20:12	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.15
Sample Tag: SB-A2-OX62_5-6
Collected Date/Time: 09/05/2012 18:00
Matrix: Soil
COC Reference: 67979

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	90	%	1	Std M 2540 B	09/08/12 10:00	WAR		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	76-13-1	
Acetone	Not detected	ug/kg	590	5035/8260B	09/06/12 20:33	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	590	5035/8260B	09/06/12 20:33	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	590	5035/8260B	09/06/12 20:33	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	590	5035/8260B	09/06/12 20:33	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	590	5035/8260B	09/06/12 20:33	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	79-34-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.15 (continued)

Sample Tag: SB-A2-OX62_5-6

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/06/12 20:33	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:33	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.16
Sample Tag: SB-A2-OX62_17-21
Collected Date/Time: 09/05/2012 18:40
Matrix: Groundwater
COC Reference: 67979

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	09/07/12 16:33	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	09/07/12 19:20	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	09/07/12 19:20	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	09/07/12 19:20	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	67-66-3	
1,1,1-Trichloroethane	5	ug/L	1	SW8260B	09/07/12 19:20	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	09/07/12 19:20	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	09/07/12 19:20	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	79-00-5	
Tetrachloroethene	329	ug/L	1	SW8260B	09/07/12 19:20	JGH	127-18-4	E
Dibromochloromethane	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/07/12 19:20	JGH		

E-Concentration exceeds calibration range



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.16 (continued)

Sample Tag: SB-A2-OX62_17-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	09/07/12 19:20	JGH	96-12-8	
TCL Volatile Organics 8260 (Replicate 01)								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	76-13-1	Y
Acetone	Not detected	ug/L	50	SW8260B	09/10/12 14:37	JGH	67-64-1	Y
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	75-15-0	Y
Methyl Acetate	Not detected	ug/L	50	SW8260B	09/10/12 14:37	JGH	79-20-9	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	1634-04-4	Y
2-Butanone (MEK)	Not detected	ug/L	50	SW8260B	09/10/12 14:37	JGH	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	75-71-8	Y
Chloromethane	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	74-87-3	Y
Vinyl chloride	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	75-01-4	Y
Bromomethane	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	74-83-9	Y
Chloroethane	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	75-35-4	Y
Methylene chloride	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	156-59-2	Y
Chloroform	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	67-66-3	Y
1,1,1-Trichloroethane	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	71-55-6	Y
Cyclohexane	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	110-82-7	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/10/12 14:37	JGH	108-10-1	Y
2-Hexanone	Not detected	ug/L	50	SW8260B	09/10/12 14:37	JGH	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	56-23-5	Y
Benzene	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	107-06-2	Y
Trichloroethene	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	75-27-4	Y
Methyl cyclohexane	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	108-87-2	Y
cis-1,3-Dichloropropene	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	10061-01-5	Y
Toluene	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	79-00-5	Y
Tetrachloroethene	361	ug/L	5	SW8260B	09/10/12 14:37	JGH	127-18-4	Y
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	124-48-1	Y
Chlorobenzene	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	108-90-7	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.16 (continued)

Sample Tag: SB-A2-OX62_17-21

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (Replicate 01) (continued)								
1,1,2,2-Tetrachloroethane	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	79-34-5	Y
Ethylbenzene	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	100-41-4	Y
p,m-Xylene	Not detected	ug/L	10	SW8260B	09/10/12 14:37	JGH		Y
o-Xylene	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	95-47-6	Y
Styrene	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	98-82-8	Y
Bromoform	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	75-25-2	Y
1,3-Dichlorobenzene	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	95-50-1	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	120-82-1	Y
1,2-Dibromoethane	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	106-93-4	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/10/12 14:37	JGH	96-12-8	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.17

Sample Tag: SB-A2-OX62_23-24

Collected Date/Time: 09/05/2012 18:55

Matrix: Soil

COC Reference: 67979

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	91	%	1	Std M 2540 B	09/08/12 10:00	WAR		
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Organics - Volatiles**TCL Volatile Organics HighLevl 5035/8260**

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	76-13-1	
Acetone	Not detected	ug/kg	600	5035/8260B	09/06/12 20:53	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	600	5035/8260B	09/06/12 20:53	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	600	5035/8260B	09/06/12 20:53	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	600	5035/8260B	09/06/12 20:53	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	600	5035/8260B	09/06/12 20:53	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	79-34-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.17 (continued)

Sample Tag: SB-A2-OX62_23-24

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/06/12 20:53	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 20:53	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.18

Sample Tag: SB-A2-OX62_29-30

Collected Date/Time: 09/05/2012 19:19

Matrix: Soil

COC Reference: 67979

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	92	%	1	Std M 2540 B	09/08/12 10:00	WAR		
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Organics - Volatiles**TCL Volatile Organics HighLevl 5035/8260**

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	76-13-1	
Acetone	Not detected	ug/kg	600	5035/8260B	09/06/12 21:13	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	600	5035/8260B	09/06/12 21:13	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	600	5035/8260B	09/06/12 21:13	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	600	5035/8260B	09/06/12 21:13	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	600	5035/8260B	09/06/12 21:13	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	79-34-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.18 (continued)

Sample Tag: SB-A2-OX62_29-30

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/06/12 21:13	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/06/12 21:13	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.19
Sample Tag: Trip Blank
Collected Date/Time: 09/05/2012 00:01
Matrix: Methanol
COC Reference: 67979

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	76-13-1	
Acetone	Not detected	ug/kg	500	5035/8260B	09/07/12 15:18	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	500	5035/8260B	09/07/12 15:18	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	500	5035/8260B	09/07/12 15:18	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	156-59-2	
Chloroform	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	500	5035/8260B	09/07/12 15:18	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	500	5035/8260B	09/07/12 15:18	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	56-23-5	
Benzene	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	10061-01-5	
Toluene	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/07/12 15:18	WAT		
o-Xylene	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	95-47-6	
Styrene	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	100-42-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.19 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Isopropylbenzene	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	98-82-8	
Bromoform	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	50	5035/8260B	09/07/12 15:18	WAT	120-82-1	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.20
Sample Tag: SB-A2-0X62_11-12
Collected Date/Time: 09/05/2012 18:11
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	92	%	1	Std M 2540 B	09/08/12 10:00	WAR		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	76-13-1	
Acetone	Not detected	ug/kg	580	5035/8260B	09/07/12 15:38	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	580	5035/8260B	09/07/12 15:38	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	580	5035/8260B	09/07/12 15:38	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	580	5035/8260B	09/07/12 15:38	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	580	5035/8260B	09/07/12 15:38	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	79-34-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S53789.20 (continued)

Sample Tag: SB-A2-OX62_11-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/07/12 15:38	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/07/12 15:38	WAT	120-82-1	



69156

INVOICE TO

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208	E-MAIL ADDRESS dfavero@racertrust.org		

[illegible][illegible]

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 9-6-12		TIME 1130	
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 9-6-12		TIME 1130	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 4.2		
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS			

Rev. 1-15-12



2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 2 OF 2

67979

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME			
Randy Christensen			
COMPANY			
ARCADIS			
ADDRESS			
10559 Citation Drive Suite 100			
CITY		STATE	ZIP CODE
Brighton		MI	48116
PHONE NO.		FAX NO.	P.O. NO.
810-225-1910			PO125047
E-MAIL ADDRESS		QUOTE NO.	
randy.christensen@arcadis-us.com		Task#: 00105	

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208		E-MAIL ADDRESS dfavero@racertrust.org	
ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)			

PROJECT NO./NAME			SAMPLER(S) - PLEASE PRINT/SIGN NAME		TURNAROUND TIME REQUIRED		DELIVERABLES REQUIRED		MATRIX		GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID		SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIFE A=AIR W=WASTE		# Containers & Preservatives		VOCs		SVOCs		PCBs		Metals (wtHg)		VOCs		dry weight	
Lansing Plant 2 Project# 80064479 2012.00105			Alex Villalobos/Certified		1 DAY 2 DAYS 3 DAYS STANDARD OTHER		LEVEL II LEVEL III LEVEL IV EDD OTHER		MATERIAL		GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID		SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIFE A=AIR W=WASTE		# Containers & Preservatives		VOCs		SVOCs		PCBs		Metals (wtHg)		VOCs		dry weight	
MERIT LAB NO.			YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION		MATERIAL		# OF BOTTLES		NONE		HCl		HNO3		H2SO4		NaOH		MeOH		OTHER		VOCs		dry weight	
5378913			2012		SB-A2-OX70-29-30		S		2		1														✓		✓	
14			9/5		SB-A2-OX62-1-2		S		2		1														✓		✓	
15			9/5		SB-A2-OX62-5-6		S		2		1														✓		✓	
16			9/5		SB-A2-OX62-17-21		GW		2		2														✓		✓	
17			9/5		SB-A2-OX62-23-24		S		2		1														✓		✓	
18			9/5		SB-A2-OX62-29-30		S		2		1														✓		✓	
19			9/5		Trip blank				1																✓		✓	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>C. V. / PME</i>	☒ Sampler	DATE 9/5/12	TIME 20:15
RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>PM storage</i>		DATE 9/5/12	TIME 20:15
RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>OW</i>	<i>M</i>	DATE 9-5-12	TIME 10-
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 2-6-12		TIME 11:30	
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 2-6-12		TIME 11:30	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 42		
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS			

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1-15-12



Analytical Laboratory Report

Report ID: S53850.01(01)
Generated on 09/19/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S53850.01-S53850.06
Project: Lansing Plant #2 Project# B0064479.2012.00105
Collected Date: 09/10/2012 - 09/11/2012
Submitted Date/Time: 09/12/2012 09:55
Sampled by: Lance Rogers
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)
Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (6 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S53850.01	MW-12-05_(3-4)	Soil	09/10/2012 13:55
S53850.02	MW-12-05_(45-46)	Soil	09/10/2012 15:35
S53850.03	MW-12-05_(60-61)	Soil	09/10/2012 16:05
S53850.04	MW-12-06_(3-4)	Soil	09/11/2012 14:05
S53850.05	MW-12-06_(47-48)	Soil	09/11/2012 15:32
S53850.06	MW-12-06_(63-64)	Soil	09/11/2012 16:30



Analytical Laboratory Report

Lab Sample ID: S53850.01

Sample Tag: MW-12-05_(3-4)

Collected Date/Time: 09/10/2012 13:55

Matrix: Soil

COC Reference: 67972

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/12/12 23:59	EMR		
Mercury Digestion	Completed			SW7471A	09/17/12 14:00	JRH		
Metal Digestion	Completed			3050B	09/18/12 01:00	SLR		

Inorganics

Total Solids	89	%	1	Std M 2540 B	09/13/12 12:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.22	SW6020	09/18/12 14:57	SLS	7440-36-0	
Arsenic	1.40	mg/kg	0.11	SW6020	09/18/12 14:57	SLS	7440-38-2	
Barium	30.5	mg/kg	1.1	SW6020	09/18/12 14:57	SLS	7440-39-3	
Boron	Not detected	mg/kg	4.4	SW6020	09/18/12 14:57	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.11	SW6020	09/18/12 14:57	SLS	7440-43-9	
Chromium	5.03	mg/kg	0.22	SW6020	09/18/12 14:57	SLS	7440-47-3	
Cobalt	4.10	mg/kg	0.22	SW6020	09/18/12 14:57	SLS	7440-48-4	
Copper	5.06	mg/kg	0.22	SW6020	09/18/12 14:57	SLS	7440-50-8	
Lead	3.59	mg/kg	0.22	SW6020	09/18/12 14:57	SLS	7439-92-1	
Manganese	324	mg/kg	0.22	SW6020	09/19/12 11:43	SLS	7439-96-5	
Mercury	0.0124	mg/kg	0.0055	SW7471A	09/17/12 16:35	JRT	7439-97-6	
Nickel	7.94	mg/kg	0.22	SW6020	09/18/12 14:57	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.11	SW6020	09/18/12 16:39	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.11	SW6020	09/18/12 14:57	SLS	7440-22-4	
Vanadium	7.69	mg/kg	0.22	SW6020	09/18/12 14:57	SLS	7440-62-2	
Zinc	11.7	mg/kg	1.1	SW6020	09/18/12 14:57	SLS	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	208-96-8	
Acetophenone	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	98-86-2	
Anthracene	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	SW8270C	09/17/12 16:50	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	85-68-7	



Analytical Laboratory Report

Lab Sample ID: S53850.01 (continued)

Sample Tag: MW-12-05_(3-4)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Chloronaphthalene	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	105-60-2	
Carbazole	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	108-60-1	
Chrysene	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	SW8270C	09/17/12 16:50	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	SW8270C	09/17/12 16:50	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	SW8270C	09/17/12 16:50	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	206-44-0	
Fluorene	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	SW8270C	09/17/12 16:50	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	86-30-6	
Naphthalene	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	SW8270C	09/17/12 16:50	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	85-01-8	
Phenol	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	108-95-2	
Pyrene	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	95-95-4	



Analytical Laboratory Report

Lab Sample ID: S53850.01 (continued)

Sample Tag: MW-12-05_(3-4)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,6-Trichlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 16:50	PL	88-06-2	
Organics - Volatiles								
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	76-13-1	
Acetone	Not detected	ug/kg	670	5035/8260B	09/13/12 16:31	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	670	5035/8260B	09/13/12 16:31	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	670	5035/8260B	09/13/12 16:31	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	670	5035/8260B	09/13/12 16:31	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	670	5035/8260B	09/13/12 16:31	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/13/12 16:31	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	541-73-1	



Analytical Laboratory Report

Lab Sample ID: S53850.01 (continued)

Sample Tag: MW-12-05_(3-4)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/13/12 16:31	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53850.02
Sample Tag: MW-12-05_(45-46)
Collected Date/Time: 09/10/2012 15:35
Matrix: Soil
COC Reference: 67972

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/12/12 23:59	EMR		
Mercury Digestion	Completed			SW7471A	09/17/12 14:00	JRH		
Metal Digestion	Completed			3050B	09/18/12 01:00	SLR		

Inorganics

Total Solids	89	%	1	Std M 2540 B	09/13/12 12:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.23	SW6020	09/18/12 15:01	SLS	7440-36-0	
Arsenic	3.32	mg/kg	0.12	SW6020	09/18/12 15:01	SLS	7440-38-2	
Barium	10.3	mg/kg	1.2	SW6020	09/18/12 15:01	SLS	7440-39-3	
Boron	Not detected	mg/kg	4.5	SW6020	09/18/12 15:01	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.12	SW6020	09/18/12 15:01	SLS	7440-43-9	
Chromium	2.07	mg/kg	0.23	SW6020	09/18/12 15:01	SLS	7440-47-3	
Cobalt	1.97	mg/kg	0.23	SW6020	09/18/12 15:01	SLS	7440-48-4	
Copper	6.78	mg/kg	0.23	SW6020	09/18/12 15:01	SLS	7440-50-8	
Lead	3.06	mg/kg	0.23	SW6020	09/18/12 15:01	SLS	7439-92-1	
Manganese	255	mg/kg	0.23	SW6020	09/19/12 11:46	SLS	7439-96-5	
Mercury	0.0094	mg/kg	0.0055	SW7471A	09/17/12 16:37	JRT	7439-97-6	
Nickel	4.46	mg/kg	0.23	SW6020	09/18/12 15:01	SLS	7440-02-0	
Selenium	0.17	mg/kg	0.12	SW6020	09/18/12 16:42	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.12	SW6020	09/18/12 15:01	SLS	7440-22-4	
Vanadium	3.74	mg/kg	0.23	SW6020	09/18/12 15:01	SLS	7440-62-2	
Zinc	17.8	mg/kg	1.2	SW6020	09/18/12 15:01	SLS	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	208-96-8	
Acetophenone	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	98-86-2	
Anthracene	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	SW8270C	09/17/12 17:24	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	85-68-7	



Analytical Laboratory Report

Lab Sample ID: S53850.02 (continued)

Sample Tag: MW-12-05_(45-46)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Chloronaphthalene	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	105-60-2	
Carbazole	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	108-60-1	
Chrysene	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	SW8270C	09/17/12 17:24	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	SW8270C	09/17/12 17:24	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	SW8270C	09/17/12 17:24	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	206-44-0	
Fluorene	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	SW8270C	09/17/12 17:24	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	86-30-6	
Naphthalene	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	SW8270C	09/17/12 17:24	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	85-01-8	
Phenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	108-95-2	
Pyrene	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	95-95-4	



Analytical Laboratory Report

Lab Sample ID: S53850.02 (continued)

Sample Tag: MW-12-05_(45-46)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,6-Trichlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:24	PL	88-06-2	
Organics - Volatiles								
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	76-13-1	
Acetone	Not detected	ug/kg	1,400	5035/8260B	09/13/12 16:51	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	1,400	5035/8260B	09/13/12 16:51	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	1,400	5035/8260B	09/13/12 16:51	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	156-59-2	
Chloroform	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	1,400	5035/8260B	09/13/12 16:51	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	1,400	5035/8260B	09/13/12 16:51	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	56-23-5	
Benzene	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	10061-01-5	
Toluene	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	300	5035/8260B	09/13/12 16:51	WAT		
o-Xylene	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	95-47-6	
Styrene	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	541-73-1	



Analytical Laboratory Report

Lab Sample ID: S53850.02 (continued)

Sample Tag: MW-12-05_(45-46)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
1,4-Dichlorobenzene	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	100	5035/8260B	09/13/12 16:51	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53850.03
Sample Tag: MW-12-05_(60-61)
Collected Date/Time: 09/10/2012 16:05
Matrix: Soil
COC Reference: 67972

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/12/12 23:59	EMR		
Mercury Digestion	Completed			SW7471A	09/17/12 14:00	JRH		
Metal Digestion	Completed			3050B	09/18/12 01:00	SLR		

Inorganics

Total Solids	93	%	1	Std M 2540 B	09/13/12 12:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.22	SW6020	09/18/12 15:06	SLS	7440-36-0	
Arsenic	0.85	mg/kg	0.11	SW6020	09/18/12 15:06	SLS	7440-38-2	
Barium	6.00	mg/kg	1.1	SW6020	09/18/12 15:06	SLS	7440-39-3	
Boron	Not detected	mg/kg	4.4	SW6020	09/18/12 15:06	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.11	SW6020	09/18/12 15:06	SLS	7440-43-9	
Chromium	1.60	mg/kg	0.22	SW6020	09/18/12 15:06	SLS	7440-47-3	
Cobalt	1.46	mg/kg	0.22	SW6020	09/18/12 15:06	SLS	7440-48-4	
Copper	3.28	mg/kg	0.22	SW6020	09/18/12 15:06	SLS	7440-50-8	
Lead	4.16	mg/kg	0.22	SW6020	09/18/12 15:06	SLS	7439-92-1	
Manganese	51.9	mg/kg	0.22	SW6020	09/19/12 11:48	SLS	7439-96-5	
Mercury	0.0170	mg/kg	0.0052	SW7471A	09/17/12 16:39	JRT	7439-97-6	
Nickel	5.67	mg/kg	0.22	SW6020	09/18/12 15:06	SLS	7440-02-0	
Selenium	0.32	mg/kg	0.11	SW6020	09/18/12 16:44	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.11	SW6020	09/18/12 15:06	SLS	7440-22-4	
Vanadium	1.74	mg/kg	0.22	SW6020	09/18/12 15:06	SLS	7440-62-2	
Zinc	4.47	mg/kg	1.1	SW6020	09/18/12 15:06	SLS	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	208-96-8	
Acetophenone	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	98-86-2	
Anthracene	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	SW8270C	09/17/12 17:59	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	85-68-7	



Analytical Laboratory Report

Lab Sample ID: S53850.03 (continued)

Sample Tag: MW-12-05_(60-61)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Chloronaphthalene	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	105-60-2	
Carbazole	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	108-60-1	
Chrysene	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	SW8270C	09/17/12 17:59	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	SW8270C	09/17/12 17:59	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	SW8270C	09/17/12 17:59	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	206-44-0	
Fluorene	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	SW8270C	09/17/12 17:59	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	86-30-6	
Naphthalene	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	SW8270C	09/17/12 17:59	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	85-01-8	
Phenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	108-95-2	
Pyrene	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	95-95-4	



Analytical Laboratory Report

Lab Sample ID: S53850.03 (continued)

Sample Tag: MW-12-05_(60-61)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,6-Trichlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 17:59	PL	88-06-2	
Organics - Volatiles								
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	76-13-1	
Acetone	Not detected	ug/kg	590	5035/8260B	09/13/12 17:11	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	590	5035/8260B	09/13/12 17:11	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	590	5035/8260B	09/13/12 17:11	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	590	5035/8260B	09/13/12 17:11	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	590	5035/8260B	09/13/12 17:11	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/13/12 17:11	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	541-73-1	



Analytical Laboratory Report

Lab Sample ID: S53850.03 (continued)

Sample Tag: MW-12-05_(60-61)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:11	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53850.04
Sample Tag: MW-12-06_(3-4)
Collected Date/Time: 09/11/2012 14:05
Matrix: Soil
COC Reference: 67972

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/12/12 23:59	EMR		
Mercury Digestion	Completed			SW7471A	09/17/12 14:00	JRH		
Metal Digestion	Completed			3050B	09/18/12 01:00	SLR		

Inorganics

Total Solids	92	%	1	Std M 2540 B	09/13/12 12:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.22	SW6020	09/18/12 15:10	SLS	7440-36-0	
Arsenic	1.14	mg/kg	0.11	SW6020	09/18/12 15:10	SLS	7440-38-2	
Barium	21.0	mg/kg	1.1	SW6020	09/18/12 15:10	SLS	7440-39-3	
Boron	Not detected	mg/kg	4.5	SW6020	09/18/12 15:10	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.11	SW6020	09/18/12 15:10	SLS	7440-43-9	
Chromium	3.75	mg/kg	0.22	SW6020	09/18/12 15:10	SLS	7440-47-3	
Cobalt	2.15	mg/kg	0.22	SW6020	09/18/12 15:10	SLS	7440-48-4	
Copper	7.85	mg/kg	0.22	SW6020	09/18/12 15:10	SLS	7440-50-8	
Lead	2.85	mg/kg	0.22	SW6020	09/18/12 15:10	SLS	7439-92-1	
Manganese	240	mg/kg	0.22	SW6020	09/19/12 11:51	SLS	7439-96-5	
Mercury	0.0133	mg/kg	0.0053	SW7471A	09/17/12 16:41	JRT	7439-97-6	
Nickel	5.96	mg/kg	0.22	SW6020	09/18/12 15:10	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.11	SW6020	09/18/12 16:46	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.11	SW6020	09/18/12 15:10	SLS	7440-22-4	
Vanadium	6.14	mg/kg	0.22	SW6020	09/18/12 15:10	SLS	7440-62-2	
Zinc	12.6	mg/kg	1.1	SW6020	09/18/12 15:10	SLS	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	208-96-8	
Acetophenone	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	98-86-2	
Anthracene	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	SW8270C	09/17/12 18:33	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	85-68-7	



Analytical Laboratory Report

Lab Sample ID: S53850.04 (continued)

Sample Tag: MW-12-06_(3-4)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Chloronaphthalene	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	105-60-2	
Carbazole	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	108-60-1	
Chrysene	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	SW8270C	09/17/12 18:33	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	SW8270C	09/17/12 18:33	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	SW8270C	09/17/12 18:33	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	206-44-0	
Fluorene	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	SW8270C	09/17/12 18:33	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	86-30-6	
Naphthalene	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	SW8270C	09/17/12 18:33	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	85-01-8	
Phenol	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	108-95-2	
Pyrene	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	95-95-4	



Analytical Laboratory Report

Lab Sample ID: S53850.04 (continued)

Sample Tag: MW-12-06_(3-4)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,6-Trichlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 18:33	PL	88-06-2	
Organics - Volatiles								
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	76-13-1	
Acetone	Not detected	ug/kg	580	5035/8260B	09/13/12 17:31	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	580	5035/8260B	09/13/12 17:31	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	580	5035/8260B	09/13/12 17:31	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	580	5035/8260B	09/13/12 17:31	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	580	5035/8260B	09/13/12 17:31	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/13/12 17:31	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	541-73-1	



Analytical Laboratory Report

Lab Sample ID: S53850.04 (continued)

Sample Tag: MW-12-06_(3-4)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:31	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53850.05
Sample Tag: MW-12-06_(47-48)
Collected Date/Time: 09/11/2012 15:32
Matrix: Soil
COC Reference: 67972

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/12/12 23:59	EMR		
Mercury Digestion	Completed			SW7471A	09/17/12 14:00	JRH		
Metal Digestion	Completed			3050B	09/18/12 01:00	SLR		

Inorganics

Total Solids	90	%	1	Std M 2540 B	09/13/12 12:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	SW6020	09/18/12 15:14	SLS	7440-36-0	
Arsenic	5.09	mg/kg	0.10	SW6020	09/18/12 15:14	SLS	7440-38-2	
Barium	46.5	mg/kg	1.0	SW6020	09/18/12 15:14	SLS	7440-39-3	
Boron	Not detected	mg/kg	4.2	SW6020	09/18/12 15:14	SLS	7440-42-8	
Cadmium	0.19	mg/kg	0.10	SW6020	09/18/12 15:14	SLS	7440-43-9	
Chromium	8.42	mg/kg	0.21	SW6020	09/18/12 15:14	SLS	7440-47-3	
Cobalt	6.80	mg/kg	0.21	SW6020	09/18/12 15:14	SLS	7440-48-4	
Copper	15.0	mg/kg	0.21	SW6020	09/18/12 15:14	SLS	7440-50-8	
Lead	6.67	mg/kg	0.21	SW6020	09/18/12 15:14	SLS	7439-92-1	
Manganese	379	mg/kg	0.21	SW6020	09/19/12 11:54	SLS	7439-96-5	
Mercury	0.0137	mg/kg	0.0055	SW7471A	09/17/12 16:43	JRT	7439-97-6	
Nickel	18.2	mg/kg	0.21	SW6020	09/18/12 15:14	SLS	7440-02-0	
Selenium	0.28	mg/kg	0.10	SW6020	09/18/12 16:49	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	SW6020	09/18/12 15:14	SLS	7440-22-4	
Vanadium	10.8	mg/kg	0.21	SW6020	09/18/12 15:14	SLS	7440-62-2	
Zinc	35.2	mg/kg	1.0	SW6020	09/18/12 15:14	SLS	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	208-96-8	
Acetophenone	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	98-86-2	
Anthracene	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	SW8270C	09/17/12 19:07	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	85-68-7	



Analytical Laboratory Report

Lab Sample ID: S53850.05 (continued)

Sample Tag: MW-12-06_(47-48)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Chloronaphthalene	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	105-60-2	
Carbazole	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	108-60-1	
Chrysene	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	SW8270C	09/17/12 19:07	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	SW8270C	09/17/12 19:07	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	SW8270C	09/17/12 19:07	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	206-44-0	
Fluorene	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	SW8270C	09/17/12 19:07	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	86-30-6	
Naphthalene	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	SW8270C	09/17/12 19:07	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	85-01-8	
Phenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	108-95-2	
Pyrene	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	95-95-4	



Analytical Laboratory Report

Lab Sample ID: S53850.05 (continued)

Sample Tag: MW-12-06_(47-48)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,6-Trichlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:07	PL	88-06-2	
Organics - Volatiles								
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	76-13-1	
Acetone	Not detected	ug/kg	630	5035/8260B	09/13/12 17:50	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	630	5035/8260B	09/13/12 17:50	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	630	5035/8260B	09/13/12 17:50	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	630	5035/8260B	09/13/12 17:50	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	630	5035/8260B	09/13/12 17:50	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/13/12 17:50	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	541-73-1	



Analytical Laboratory Report

Lab Sample ID: S53850.05 (continued)

Sample Tag: MW-12-06_(47-48)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 17:50	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53850.06

Sample Tag: MW-12-06_(63-64)

Collected Date/Time: 09/11/2012 16:30

Matrix: Soil

COC Reference: 67972

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/12/12 23:59	EMR		
Mercury Digestion	Completed			SW7471A	09/17/12 14:00	JRH		
Metal Digestion	Completed			3050B	09/18/12 01:00	SLR		

Inorganics

Total Solids	93	%	1	Std M 2540 B	09/13/12 12:00	WAR		
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Metals

Antimony	Not detected	mg/kg	0.21	SW6020	09/18/12 15:18	SLS	7440-36-0	
Arsenic	1.59	mg/kg	0.11	SW6020	09/18/12 15:18	SLS	7440-38-2	
Barium	4.92	mg/kg	1.1	SW6020	09/18/12 15:18	SLS	7440-39-3	
Boron	Not detected	mg/kg	4.4	SW6020	09/18/12 15:18	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.11	SW6020	09/18/12 15:18	SLS	7440-43-9	
Chromium	0.90	mg/kg	0.21	SW6020	09/18/12 15:18	SLS	7440-47-3	
Cobalt	2.07	mg/kg	0.21	SW6020	09/18/12 15:18	SLS	7440-48-4	
Copper	2.90	mg/kg	0.21	SW6020	09/18/12 15:18	SLS	7440-50-8	
Lead	2.30	mg/kg	0.21	SW6020	09/18/12 15:18	SLS	7439-92-1	
Manganese	107	mg/kg	0.22	SW6020	09/19/12 11:56	SLS	7439-96-5	
Mercury	0.0056	mg/kg	0.0053	SW7471A	09/17/12 16:45	JRT	7439-97-6	
Nickel	4.55	mg/kg	0.21	SW6020	09/18/12 15:18	SLS	7440-02-0	
Selenium	0.14	mg/kg	0.11	SW6020	09/18/12 16:51	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.11	SW6020	09/18/12 15:18	SLS	7440-22-4	
Vanadium	1.49	mg/kg	0.21	SW6020	09/18/12 15:18	SLS	7440-62-2	
Zinc	11.7	mg/kg	1.1	SW6020	09/18/12 15:18	SLS	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	208-96-8	
Acetophenone	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	98-86-2	
Anthracene	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	SW8270C	09/17/12 19:41	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	85-68-7	



Analytical Laboratory Report

Lab Sample ID: S53850.06 (continued)

Sample Tag: MW-12-06_(63-64)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Chloronaphthalene	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	105-60-2	
Carbazole	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	108-60-1	
Chrysene	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	SW8270C	09/17/12 19:41	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	SW8270C	09/17/12 19:41	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	SW8270C	09/17/12 19:41	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	206-44-0	
Fluorene	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	SW8270C	09/17/12 19:41	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	86-30-6	
Naphthalene	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	SW8270C	09/17/12 19:41	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	85-01-8	
Phenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	108-95-2	
Pyrene	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	95-95-4	



Analytical Laboratory Report

Lab Sample ID: S53850.06 (continued)

Sample Tag: MW-12-06_(63-64)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,6-Trichlorophenol	Not detected	ug/kg	100	SW8270C	09/17/12 19:41	PL	88-06-2	
Organics - Volatiles								
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	76-13-1	
Acetone	Not detected	ug/kg	580	5035/8260B	09/13/12 18:10	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	580	5035/8260B	09/13/12 18:10	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	580	5035/8260B	09/13/12 18:10	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	580	5035/8260B	09/13/12 18:10	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	580	5035/8260B	09/13/12 18:10	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/13/12 18:10	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	541-73-1	



Analytical Laboratory Report

Lab Sample ID: S53850.06 (continued)

Sample Tag: MW-12-06_(63-64)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/13/12 18:10	WAT	120-82-1	



67972

INVOICE TO

RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>James M. Royce</i> ARCA	☒ Sampler	DATE 9-10-12	TIME 1700
RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>Col. Vial</i> / PME		DATE 9/11/12	TIME 17:00
RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>Col. Vial</i> / PME		DATE 9/11/12	TIME 18:55
RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>PM Storkow</i>		DATE 9/11/12	TIME 18:55

RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>John Mearns</i>	DATE 9-10-12	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>Andrew Ball</i>	DATE 12 SEP 12	TIME 0955
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 4.2
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

Rev. 1.15.12



Analytical Laboratory Report

Report ID: S53894.01(01)
Generated on 09/18/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S53894.01-S53894.39
Project: Lansing Plant #2 Project# B0064479.2012.00105
Collected Date: 09/13/2012
Submitted Date/Time: 09/14/2012 10:15
Sampled by: Alex Villheuer
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)
Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (39 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S53894.01	Trip Blank	Methanol	09/13/2012 08:00
S53894.02	SB-A2-OT74_1'-2'	Soil	09/13/2012 08:42
S53894.03	SB-A2-OT74_1'-2' MS	Soil	09/13/2012 08:42
S53894.04	SB-A2-OT74_1'-2' MSD	Soil	09/13/2012 08:42
S53894.05	SB-A2-OT74_6'-7'	Soil	09/13/2012 09:00
S53894.06	SB-A2-OT74_10'-11'	Soil	09/13/2012 09:09
S53894.07	SB-A2-OT74_17'-18'	Soil	09/13/2012 10:09
S53894.08	SB-A2-DUP13	Soil	09/13/2012 00:01
S53894.09	SB-A2-OT74_23'-24'	Soil	09/13/2012 10:15
S53894.10	SB-A2-OT74_29'-30'	Soil	09/13/2012 10:23
S53894.11	SB-A2-OT74_12'-16'	Groundwater	09/13/2012 10:25
S53894.12	SB-A2-PC76_2'-3'	Soil	09/13/2012 10:55
S53894.13	SB-A2-PC76_10'-11'	Soil	09/13/2012 11:05
S53894.14	SB-A2-DUP14	Soil	09/13/2012 00:01
S53894.15	SB-A2-PC76_9.5'-10'	Soil	09/13/2012 11:15
S53894.16	SB-A2-PC76_17'-18'	Soil	09/13/2012 11:38
S53894.17	SB-A2-PC76_23'-24'	Soil	09/13/2012 12:00
S53894.18	SB-A2-PC76_29'-30'	Soil	09/13/2012 12:10
S53894.19	SB-A2-OP67_1'-2'	Soil	09/13/2012 13:00
S53894.20	SB-A2-OP67_7'-8'	Soil	09/13/2012 13:18
S53894.21	SB-A2-OP67_14'-15'	Soil	09/13/2012 13:25
S53894.22	SB-A2-OP67_19'-20'	Soil	09/13/2012 13:34
S53894.23	SB-A2-OP67_24'-25'	Soil	09/13/2012 13:45
S53894.24	SB-A2-OP67_28'-29'	Soil	09/13/2012 13:54
S53894.25	SB-A2-OT59_1'-2'	Soil	09/13/2012 14:40
S53894.26	SB-A2-OT59_5'-6'	Soil	09/13/2012 14:50
S53894.27	SB-A2-OT59_10'-11'	Soil	09/13/2012 15:00
S53894.28	SB-A2-OT59_23'-24'	Soil	09/13/2012 15:15
S53894.29	SB-A2-OT59_29'-30'	Soil	09/13/2012 15:22
S53894.30	SB-A2-OT59_16'-20'	Groundwater	09/13/2012 15:45
S53894.31	SB-A2-DUP15	Groundwater	09/13/2012 00:01
S53894.32	SB-A2-OY56_4'-5'	Soil	09/13/2012 16:30
S53894.33	SB-A2-OY56_8'-9'	Soil	09/13/2012 16:45
S53894.34	SB-A2-OY56_13'-14'	Soil	09/13/2012 16:55
S53894.35	SB-A2-OY56_24'-25'	Soil	09/13/2012 17:20
S53894.36	SB-A2-OY56_20'-24'	Groundwater	09/13/2012 17:40
S53894.37	SB-A2-OY56_29'-30'	Soil	09/13/2012 17:55
S53894.38	SB-A2-OY56_29'-30' MS	Soil	09/13/2012 17:55
S53894.39	SB-A2-OY56_29'-30' MSD	Soil	09/13/2012 17:55



Analytical Laboratory Report

Lab Sample ID: S53894.01
Sample Tag: Trip Blank
Collected Date/Time: 09/13/2012 08:00
Matrix: Methanol
COC Reference: 67974

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	76-13-1	
Acetone	Not detected	ug/kg	500	5035/8260B	09/16/12 03:07	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	500	5035/8260B	09/16/12 03:07	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	500	5035/8260B	09/16/12 03:07	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	156-59-2	
Chloroform	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	500	5035/8260B	09/16/12 03:07	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	500	5035/8260B	09/16/12 03:07	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	56-23-5	
Benzene	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	10061-01-5	
Toluene	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/16/12 03:07	WAT		
o-Xylene	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	95-47-6	
Styrene	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	100-42-5	



Analytical Laboratory Report

Lab Sample ID: S53894.01 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Isopropylbenzene	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	98-82-8	
Bromoform	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	50	5035/8260B	09/16/12 03:07	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.02
Sample Tag: SB-A2-OT74_1'-2'
Collected Date/Time: 09/13/2012 08:42
Matrix: Soil
COC Reference: 67974

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	90	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	76-13-1	
Acetone	Not detected	ug/kg	590	5035/8260B	09/16/12 03:25	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	590	5035/8260B	09/16/12 03:25	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	590	5035/8260B	09/16/12 03:25	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	590	5035/8260B	09/16/12 03:25	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	590	5035/8260B	09/16/12 03:25	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.02 (continued)

Sample Tag: SB-A2-OT74_1'-2'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/16/12 03:25	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:25	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.03
Sample Tag: SB-A2-OT74_1'-2' MS
Collected Date/Time: 09/13/2012 08:42
Matrix: Soil
COC Reference: 67974

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	90	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	3,410	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	76-13-1	1
Acetone	2,020	ug/kg	590	5035/8260B	09/16/12 08:56	WAT	67-64-1	1
Carbon disulfide	3,000	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	75-15-0	1
Methyl Acetate	2,830	ug/kg	590	5035/8260B	09/16/12 08:56	WAT	79-20-9	1
tert-Methyl butyl ether (MTBE)	3,050	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	1634-04-4	1
2-Butanone (MEK)	2,320	ug/kg	590	5035/8260B	09/16/12 08:56	WAT	78-93-3	1
Dichlorodifluoromethane	3,190	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	75-71-8	1
Chloromethane	3,130	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	74-87-3	1
Vinyl chloride	2,940	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	75-01-4	1
Bromomethane	3,440	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	74-83-9	1
Chloroethane	3,010	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	75-00-3	1
Trichlorofluoromethane	3,180	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	75-69-4	1
1,1-Dichloroethene	3,260	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	75-35-4	1
Methylene chloride	3,260	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	75-09-2	1
trans-1,2-Dichloroethene	3,050	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	156-60-5	1
1,1-Dichloroethane	3,200	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	75-34-3	1
cis-1,2-Dichloroethene	3,300	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	156-59-2	1
Chloroform	3,240	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	67-66-3	1
1,1,1-Trichloroethane	3,100	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	71-55-6	1
Cyclohexane	2,500	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	110-82-7	1
4-Methyl-2-pentanone (MIBK)	2,580	ug/kg	590	5035/8260B	09/16/12 08:56	WAT	108-10-1	1
2-Hexanone	2,430	ug/kg	590	5035/8260B	09/16/12 08:56	WAT	591-78-6	1
Carbon tetrachloride	2,910	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	56-23-5	1
Benzene	3,050	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	71-43-2	1
1,2-Dichloroethane	3,020	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	107-06-2	1
Trichloroethene	3,080	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	79-01-6	1
1,2-Dichloropropane	3,050	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	78-87-5	1
Bromodichloromethane	2,970	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	75-27-4	1
Methyl cyclohexane	3,010	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	108-87-2	1
cis-1,3-Dichloropropene	2,810	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	10061-01-5	1
Toluene	3,020	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	108-88-3	1
trans-1,3-Dichloropropene	2,280	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	10061-02-6	1
1,1,2-Trichloroethane	3,110	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	79-00-5	1
Tetrachloroethene	2,760	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	127-18-4	1
Dibromochloromethane	2,530	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	124-48-1	1
1,2-Dibromoethane	3,050	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	106-93-4	1
Chlorobenzene	3,010	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	108-90-7	1

1-Spiked at 2.5mg/kg



Analytical Laboratory Report

Lab Sample ID: S53894.03 (continued)

Sample Tag: SB-A2-OT74_1'-2' MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
1,1,2,2-Tetrachloroethane	2,960	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	79-34-5	1
Ethylbenzene	2,990	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	100-41-4	1
p,m-Xylene	6,000	ug/kg	100	5035/8260B	09/16/12 08:56	WAT		1
o-Xylene	3,060	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	95-47-6	1
Styrene	3,010	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	100-42-5	1
Isopropylbenzene	3,010	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	98-82-8	1
Bromoform	2,660	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	75-25-2	1
1,3-Dichlorobenzene	3,090	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	541-73-1	1
1,4-Dichlorobenzene	3,000	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	106-46-7	1
1,2-Dichlorobenzene	3,200	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	95-50-1	1
1,2-Dibromo-3-chloropropane	2,760	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	96-12-8	1
1,2,4-Trichlorobenzene	2,720	ug/kg	60	5035/8260B	09/16/12 08:56	WAT	120-82-1	1

1-Spiked at 2.5mg/kg



Analytical Laboratory Report

Lab Sample ID: S53894.04

Sample Tag: SB-A2-OT74_1'-2' MSD

Collected Date/Time: 09/13/2012 08:42

Matrix: Soil

COC Reference: 67974

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	90	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	3,380	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	76-13-1	1
Acetone	2,170	ug/kg	590	5035/8260B	09/16/12 09:14	WAT	67-64-1	1
Carbon disulfide	3,060	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	75-15-0	1
Methyl Acetate	2,980	ug/kg	590	5035/8260B	09/16/12 09:14	WAT	79-20-9	1
tert-Methyl butyl ether (MTBE)	3,190	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	1634-04-4	1
2-Butanone (MEK)	2,440	ug/kg	590	5035/8260B	09/16/12 09:14	WAT	78-93-3	1
Dichlorodifluoromethane	3,190	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	75-71-8	1
Chloromethane	3,170	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	74-87-3	1
Vinyl chloride	3,050	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	75-01-4	1
Bromomethane	3,550	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	74-83-9	1
Chloroethane	3,030	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	75-00-3	1
Trichlorofluoromethane	3,210	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	75-69-4	1
1,1-Dichloroethene	3,310	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	75-35-4	1
Methylene chloride	3,370	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	75-09-2	1
trans-1,2-Dichloroethene	3,100	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	156-60-5	1
1,1-Dichloroethane	3,280	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	75-34-3	1
cis-1,2-Dichloroethene	3,380	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	156-59-2	1
Chloroform	3,350	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	67-66-3	1
1,1,1-Trichloroethane	3,150	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	71-55-6	1
Cyclohexane	2,430	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	110-82-7	1
4-Methyl-2-pentanone (MIBK)	2,600	ug/kg	590	5035/8260B	09/16/12 09:14	WAT	108-10-1	1
2-Hexanone	2,470	ug/kg	590	5035/8260B	09/16/12 09:14	WAT	591-78-6	1
Carbon tetrachloride	2,920	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	56-23-5	1
Benzene	3,060	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	71-43-2	1
1,2-Dichloroethane	3,080	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	107-06-2	1
Trichloroethene	3,060	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	79-01-6	1
1,2-Dichloropropane	3,090	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	78-87-5	1
Bromodichloromethane	3,100	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	75-27-4	1
Methyl cyclohexane	2,930	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	108-87-2	1
cis-1,3-Dichloropropene	2,910	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	10061-01-5	1
Toluene	3,040	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	108-88-3	1
trans-1,3-Dichloropropene	2,380	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	10061-02-6	1
1,1,2-Trichloroethane	3,160	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	79-00-5	1
Tetrachloroethene	2,760	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	127-18-4	1
Dibromochloromethane	2,630	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	124-48-1	1
1,2-Dibromoethane	3,100	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	106-93-4	1
Chlorobenzene	3,010	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	108-90-7	1

1-Spiked at 2.5mg/kg



Analytical Laboratory Report

Lab Sample ID: S53894.04 (continued)

Sample Tag: SB-A2-OT74_1'-2' MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
1,1,2,2-Tetrachloroethane	3,020	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	79-34-5	1
Ethylbenzene	2,970	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	100-41-4	1
p,m-Xylene	6,000	ug/kg	100	5035/8260B	09/16/12 09:14	WAT		1
o-Xylene	3,070	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	95-47-6	1
Styrene	3,040	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	100-42-5	1
Isopropylbenzene	2,980	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	98-82-8	1
Bromoform	2,810	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	75-25-2	1
1,3-Dichlorobenzene	3,110	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	541-73-1	1
1,4-Dichlorobenzene	3,040	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	106-46-7	1
1,2-Dichlorobenzene	3,250	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	95-50-1	1
1,2-Dibromo-3-chloropropane	2,840	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	96-12-8	1
1,2,4-Trichlorobenzene	2,730	ug/kg	60	5035/8260B	09/16/12 09:14	WAT	120-82-1	1

1-Spiked at 2.5mg/kg



Analytical Laboratory Report

Lab Sample ID: S53894.05
Sample Tag: SB-A2-OT74_6'-7'
Collected Date/Time: 09/13/2012 09:00
Matrix: Soil
COC Reference: 67974

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	91	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	76-13-1	
Acetone	Not detected	ug/kg	580	5035/8260B	09/16/12 03:44	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	580	5035/8260B	09/16/12 03:44	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	580	5035/8260B	09/16/12 03:44	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	580	5035/8260B	09/16/12 03:44	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	580	5035/8260B	09/16/12 03:44	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.05 (continued)

Sample Tag: SB-A2-OT74_6'-7'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/16/12 03:44	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 03:44	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.06
Sample Tag: SB-A2-OT74_10'-11'
Collected Date/Time: 09/13/2012 09:09
Matrix: Soil
COC Reference: 67974

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	93	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	76-13-1	
Acetone	Not detected	ug/kg	570	5035/8260B	09/16/12 04:02	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	570	5035/8260B	09/16/12 04:02	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	570	5035/8260B	09/16/12 04:02	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	67-66-3	
1,1,1-Trichloroethane	100	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	570	5035/8260B	09/16/12 04:02	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	570	5035/8260B	09/16/12 04:02	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.06 (continued)

Sample Tag: SB-A2-OT74_10'-11'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/16/12 04:02	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:02	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.07
Sample Tag: SB-A2-OT74_17'-18'
Collected Date/Time: 09/13/2012 10:09
Matrix: Soil
COC Reference: 67974

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	89	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	76-13-1	
Acetone	Not detected	ug/kg	600	5035/8260B	09/16/12 04:20	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	600	5035/8260B	09/16/12 04:20	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	600	5035/8260B	09/16/12 04:20	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	75-69-4	
1,1-Dichloroethene	210	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	156-60-5	
1,1-Dichloroethane	160	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	67-66-3	
1,1,1-Trichloroethane	1,280	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	600	5035/8260B	09/16/12 04:20	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	600	5035/8260B	09/16/12 04:20	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.07 (continued)

Sample Tag: SB-A2-OT74_17'-18'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/16/12 04:20	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:20	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.08
Sample Tag: SB-A2-DUP13
Collected Date/Time: 09/13/2012 00:01
Matrix: Soil
COC Reference: 67974

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	88	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	76-13-1	
Acetone	Not detected	ug/kg	650	5035/8260B	09/16/12 04:38	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	650	5035/8260B	09/16/12 04:38	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	650	5035/8260B	09/16/12 04:38	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	75-69-4	
1,1-Dichloroethene	210	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	156-60-5	
1,1-Dichloroethane	160	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	67-66-3	
1,1,1-Trichloroethane	1,100	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	650	5035/8260B	09/16/12 04:38	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	650	5035/8260B	09/16/12 04:38	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.08 (continued)

Sample Tag: SB-A2-DUP13

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/16/12 04:38	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/16/12 04:38	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.09
Sample Tag: SB-A2-OT74_23'-24'
Collected Date/Time: 09/13/2012 10:15
Matrix: Soil
COC Reference: 67974

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	90	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	76-13-1	
Acetone	Not detected	ug/kg	630	5035/8260B	09/16/12 04:57	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	630	5035/8260B	09/16/12 04:57	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	630	5035/8260B	09/16/12 04:57	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	630	5035/8260B	09/16/12 04:57	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	630	5035/8260B	09/16/12 04:57	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.09 (continued)

Sample Tag: SB-A2-OT74_23'-24'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/16/12 04:57	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 04:57	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.10
Sample Tag: SB-A2-OT74_29'-30'
Collected Date/Time: 09/13/2012 10:23
Matrix: Soil
COC Reference: 67974

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	91	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	76-13-1	
Acetone	Not detected	ug/kg	610	5035/8260B	09/16/12 05:16	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	610	5035/8260B	09/16/12 05:16	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	610	5035/8260B	09/16/12 05:16	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	610	5035/8260B	09/16/12 05:16	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	610	5035/8260B	09/16/12 05:16	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.10 (continued)

Sample Tag: SB-A2-OT74_29'-30'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/16/12 05:16	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:16	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.11
Sample Tag: SB-A2-OT74_12'-16'
Collected Date/Time: 09/13/2012 10:25
Matrix: Groundwater
COC Reference: 67974

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	09/14/12 17:17	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	09/16/12 03:27	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	09/16/12 03:27	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	09/16/12 03:27	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	75-69-4	
1,1-Dichloroethene	5	ug/L	1	SW8260B	09/16/12 03:27	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	156-60-5	
1,1-Dichloroethane	4	ug/L	1	SW8260B	09/16/12 03:27	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	67-66-3	
1,1,1-Trichloroethane	140	ug/L	1	SW8260B	09/16/12 03:27	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	09/16/12 03:27	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	09/16/12 03:27	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	79-00-5	
Tetrachloroethene	3	ug/L	1	SW8260B	09/16/12 03:27	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/16/12 03:27	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	95-47-6	



Analytical Laboratory Report

Lab Sample ID: S53894.11 (continued)

Sample Tag: SB-A2-OT74_12'-16'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Styrene	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	09/16/12 03:27	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S53894.12
Sample Tag: SB-A2-PC76_2'-3'
Collected Date/Time: 09/13/2012 10:55
Matrix: Soil
COC Reference: 67974

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	87	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	76-13-1	
Acetone	Not detected	ug/kg	670	5035/8260B	09/16/12 05:34	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	670	5035/8260B	09/16/12 05:34	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	670	5035/8260B	09/16/12 05:34	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	670	5035/8260B	09/16/12 05:34	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	670	5035/8260B	09/16/12 05:34	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.12 (continued)

Sample Tag: SB-A2-PC76_2'-3'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/16/12 05:34	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/16/12 05:34	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.13
Sample Tag: SB-A2-PC76_10'-11'
Collected Date/Time: 09/13/2012 11:05
Matrix: Soil
COC Reference: 67976

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	86	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	76-13-1	
Acetone	Not detected	ug/kg	650	5035/8260B	09/16/12 05:52	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	650	5035/8260B	09/16/12 05:52	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	650	5035/8260B	09/16/12 05:52	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	650	5035/8260B	09/16/12 05:52	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	650	5035/8260B	09/16/12 05:52	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	56-23-5	
Benzene	2,730	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	75-27-4	
Methyl cyclohexane	670	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	10061-01-5	
Toluene	26,220	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	108-88-3	E
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	108-90-7	

E-Concentration exceeds calibration range



Analytical Laboratory Report

Lab Sample ID: S53894.13 (continued)

Sample Tag: SB-A2-PC76_10'-11'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	79-34-5	
Ethylbenzene	14,750	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	100-41-4	E
p,m-Xylene	34,000	ug/kg	100	5035/8260B	09/16/12 05:52	WAT		E
o-Xylene	18,690	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	95-47-6	E
Styrene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	100-42-5	
Isopropylbenzene	860	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 05:52	WAT	120-82-1	
TCL Volatile Organics HighLevl 5035/8260 (Replicate 01)								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	76-13-1	Y
Acetone	Not detected	ug/kg	6,500	5035/8260B	09/17/12 19:22	WAT	67-64-1	Y
Carbon disulfide	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	75-15-0	Y
Methyl Acetate	Not detected	ug/kg	6,500	5035/8260B	09/17/12 19:22	WAT	79-20-9	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	1634-04-4	Y
2-Butanone (MEK)	Not detected	ug/kg	6,500	5035/8260B	09/17/12 19:22	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	75-71-8	Y
Chloromethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	75-01-4	Y
Bromomethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	74-83-9	Y
Chloroethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	156-59-2	Y
Chloroform	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	67-66-3	Y
1,1,1-Trichloroethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	71-55-6	Y
Cyclohexane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	110-82-7	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	6,500	5035/8260B	09/17/12 19:22	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/kg	6,500	5035/8260B	09/17/12 19:22	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	56-23-5	Y
Benzene	2,700	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	75-27-4	Y
Methyl cyclohexane	700	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	108-87-2	Y
cis-1,3-Dichloropropene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	10061-01-5	Y
Toluene	40,400	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	79-00-5	Y

E-Concentration exceeds calibration range

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S53894.13 (continued)

Sample Tag: SB-A2-PC76_10'-11'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (Replicate 01) (continued)								
Tetrachloroethene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	127-18-4	Y
Dibromochloromethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	124-48-1	Y
1,2-Dibromoethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	108-90-7	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	79-34-5	Y
Ethylbenzene	18,400	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	100-41-4	Y
p,m-Xylene	57,000	ug/kg	1,000	5035/8260B	09/17/12 19:22	WAT		Y
o-Xylene	23,800	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	95-47-6	Y
Styrene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	100-42-5	Y
Isopropylbenzene	900	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	98-82-8	Y
Bromoform	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	75-25-2	Y
1,3-Dichlorobenzene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	95-50-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:22	WAT	120-82-1	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S53894.14
Sample Tag: SB-A2-DUP14
Collected Date/Time: 09/13/2012 00:01
Matrix: Soil
COC Reference: 67976

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	87	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	76-13-1	
Acetone	Not detected	ug/kg	640	5035/8260B	09/16/12 06:11	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	640	5035/8260B	09/16/12 06:11	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	640	5035/8260B	09/16/12 06:11	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	640	5035/8260B	09/16/12 06:11	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	640	5035/8260B	09/16/12 06:11	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	56-23-5	
Benzene	1,990	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	75-27-4	
Methyl cyclohexane	570	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	10061-01-5	
Toluene	22,470	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	108-88-3	E
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	108-90-7	

E-Concentration exceeds calibration range



Analytical Laboratory Report

Lab Sample ID: S53894.14 (continued)

Sample Tag: SB-A2-DUP14

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	79-34-5	
Ethylbenzene	13,060	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	100-41-4	E
p,m-Xylene	30,900	ug/kg	100	5035/8260B	09/16/12 06:11	WAT		E
o-Xylene	16,840	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	95-47-6	E
Styrene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	100-42-5	
Isopropylbenzene	790	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:11	WAT	120-82-1	
TCL Volatile Organics HighLevl 5035/8260 (Replicate 01)								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	76-13-1	Y
Acetone	Not detected	ug/kg	6,400	5035/8260B	09/17/12 19:40	WAT	67-64-1	Y
Carbon disulfide	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	75-15-0	Y
Methyl Acetate	Not detected	ug/kg	6,400	5035/8260B	09/17/12 19:40	WAT	79-20-9	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	1634-04-4	Y
2-Butanone (MEK)	Not detected	ug/kg	6,400	5035/8260B	09/17/12 19:40	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	75-71-8	Y
Chloromethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	75-01-4	Y
Bromomethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	74-83-9	Y
Chloroethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	156-59-2	Y
Chloroform	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	67-66-3	Y
1,1,1-Trichloroethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	71-55-6	Y
Cyclohexane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	110-82-7	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	6,400	5035/8260B	09/17/12 19:40	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/kg	6,400	5035/8260B	09/17/12 19:40	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	56-23-5	Y
Benzene	2,100	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	75-27-4	Y
Methyl cyclohexane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	108-87-2	Y
cis-1,3-Dichloropropene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	10061-01-5	Y
Toluene	33,800	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	79-00-5	Y

E-Concentration exceeds calibration range

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S53894.14 (continued)

Sample Tag: SB-A2-DUP14

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (Replicate 01) (continued)								
Tetrachloroethene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	127-18-4	Y
Dibromochloromethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	124-48-1	Y
1,2-Dibromoethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	108-90-7	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	79-34-5	Y
Ethylbenzene	16,100	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	100-41-4	Y
p,m-Xylene	51,000	ug/kg	1,000	5035/8260B	09/17/12 19:40	WAT		Y
o-Xylene	21,600	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	95-47-6	Y
Styrene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	100-42-5	Y
Isopropylbenzene	800	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	98-82-8	Y
Bromoform	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	75-25-2	Y
1,3-Dichlorobenzene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	95-50-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:40	WAT	120-82-1	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S53894.15
Sample Tag: SB-A2-PC76_9.5'-10'
Collected Date/Time: 09/13/2012 11:15
Matrix: Soil
COC Reference: 67976

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	89	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	76-13-1	Y
Acetone	Not detected	ug/kg	6,400	5035/8260B	09/16/12 08:37	WAT	67-64-1	Y
Carbon disulfide	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	75-15-0	Y
Methyl Acetate	Not detected	ug/kg	6,400	5035/8260B	09/16/12 08:37	WAT	79-20-9	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	1634-04-4	Y
2-Butanone (MEK)	Not detected	ug/kg	6,400	5035/8260B	09/16/12 08:37	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	75-71-8	Y
Chloromethane	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	75-01-4	Y
Bromomethane	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	74-83-9	Y
Chloroethane	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	156-59-2	Y
Chloroform	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	67-66-3	Y
1,1,1-Trichloroethane	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	71-55-6	Y
Cyclohexane	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	110-82-7	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	6,400	5035/8260B	09/16/12 08:37	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/kg	6,400	5035/8260B	09/16/12 08:37	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	56-23-5	Y
Benzene	700	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	75-27-4	Y
Methyl cyclohexane	10,400	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	108-87-2	Y
cis-1,3-Dichloropropene	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	10061-01-5	Y
Toluene	24,500	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	127-18-4	Y
Dibromochloromethane	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	124-48-1	Y
1,2-Dibromoethane	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	108-90-7	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S53894.15 (continued)

Sample Tag: SB-A2-PC76_9.5'-10'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	79-34-5	Y
Ethylbenzene	25,200	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	100-41-4	Y
p,m-Xylene	75,000	ug/kg	1,000	5035/8260B	09/16/12 08:37	WAT		Y
o-Xylene	28,900	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	95-47-6	Y
Styrene	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	100-42-5	Y
Isopropylbenzene	2,800	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	98-82-8	Y
Bromoform	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	75-25-2	Y
1,3-Dichlorobenzene	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	95-50-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/kg	600	5035/8260B	09/16/12 08:37	WAT	120-82-1	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S53894.16
Sample Tag: SB-A2-PC76_17'-18'
Collected Date/Time: 09/13/2012 11:38
Matrix: Soil
COC Reference: 67976

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	89	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	76-13-1	
Acetone	Not detected	ug/kg	600	5035/8260B	09/16/12 06:29	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	600	5035/8260B	09/16/12 06:29	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	600	5035/8260B	09/16/12 06:29	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	600	5035/8260B	09/16/12 06:29	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	600	5035/8260B	09/16/12 06:29	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	56-23-5	
Benzene	14,200	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	71-43-2	E
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	10061-01-5	
Toluene	18,320	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	108-88-3	E
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	108-90-7	

E-Concentration exceeds calibration range



Analytical Laboratory Report

Lab Sample ID: S53894.16 (continued)

Sample Tag: SB-A2-PC76_17'-18'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/16/12 06:29	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:29	WAT	120-82-1	
TCL Volatile Organics HighLevl 5035/8260 (Replicate 01)								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	76-13-1	Y
Acetone	Not detected	ug/kg	6,000	5035/8260B	09/17/12 19:57	WAT	67-64-1	Y
Carbon disulfide	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	75-15-0	Y
Methyl Acetate	Not detected	ug/kg	6,000	5035/8260B	09/17/12 19:57	WAT	79-20-9	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	1634-04-4	Y
2-Butanone (MEK)	Not detected	ug/kg	6,000	5035/8260B	09/17/12 19:57	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	75-71-8	Y
Chloromethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	75-01-4	Y
Bromomethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	74-83-9	Y
Chloroethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	156-59-2	Y
Chloroform	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	67-66-3	Y
1,1,1-Trichloroethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	71-55-6	Y
Cyclohexane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	110-82-7	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	6,000	5035/8260B	09/17/12 19:57	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/kg	6,000	5035/8260B	09/17/12 19:57	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	56-23-5	Y
Benzene	15,300	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	75-27-4	Y
Methyl cyclohexane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	108-87-2	Y
cis-1,3-Dichloropropene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	10061-01-5	Y
Toluene	22,900	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	127-18-4	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S53894.16 (continued)

Sample Tag: SB-A2-PC76_17'-18'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (Replicate 01) (continued)								
Dibromochloromethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	124-48-1	Y
1,2-Dibromoethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	108-90-7	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	79-34-5	Y
Ethylbenzene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	100-41-4	Y
p,m-Xylene	Not detected	ug/kg	1,000	5035/8260B	09/17/12 19:57	WAT		Y
o-Xylene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	95-47-6	Y
Styrene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	98-82-8	Y
Bromoform	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	75-25-2	Y
1,3-Dichlorobenzene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	95-50-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/kg	600	5035/8260B	09/17/12 19:57	WAT	120-82-1	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S53894.17
Sample Tag: SB-A2-PC76_23'-24'
Collected Date/Time: 09/13/2012 12:00
Matrix: Soil
COC Reference: 67976

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	90	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	76-13-1	
Acetone	Not detected	ug/kg	590	5035/8260B	09/16/12 06:48	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	590	5035/8260B	09/16/12 06:48	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	590	5035/8260B	09/16/12 06:48	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	590	5035/8260B	09/16/12 06:48	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	590	5035/8260B	09/16/12 06:48	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	56-23-5	
Benzene	11,240	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	71-43-2	
1,2-Dichloroethane	1,710	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.17 (continued)

Sample Tag: SB-A2-PC76_23'-24'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/16/12 06:48	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 06:48	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.18
Sample Tag: SB-A2-PC76_29'-30'
Collected Date/Time: 09/13/2012 12:10
Matrix: Soil
COC Reference: 67976

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	98	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	76-13-1	
Acetone	Not detected	ug/kg	500	5035/8260B	09/16/12 07:06	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	500	5035/8260B	09/16/12 07:06	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	500	5035/8260B	09/16/12 07:06	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	156-59-2	
Chloroform	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	500	5035/8260B	09/16/12 07:06	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	500	5035/8260B	09/16/12 07:06	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	56-23-5	
Benzene	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	10061-01-5	
Toluene	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.18 (continued)

Sample Tag: SB-A2-PC76_29'-30'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/16/12 07:06	WAT		
o-Xylene	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	95-47-6	
Styrene	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	98-82-8	
Bromoform	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	50	5035/8260B	09/16/12 07:06	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.19
Sample Tag: SB-A2-OP67_1'-2'
Collected Date/Time: 09/13/2012 13:00
Matrix: Soil
COC Reference: 67976

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	89	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	76-13-1	
Acetone	Not detected	ug/kg	650	5035/8260B	09/16/12 07:24	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	650	5035/8260B	09/16/12 07:24	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	650	5035/8260B	09/16/12 07:24	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	650	5035/8260B	09/16/12 07:24	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	650	5035/8260B	09/16/12 07:24	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.19 (continued)

Sample Tag: SB-A2-OP67_1'-2'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/16/12 07:24	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:24	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.20
Sample Tag: SB-A2-OP67_7'-8'
Collected Date/Time: 09/13/2012 13:18
Matrix: Soil
COC Reference: 67976

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	90	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	76-13-1	
Acetone	Not detected	ug/kg	610	5035/8260B	09/16/12 07:43	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	610	5035/8260B	09/16/12 07:43	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	610	5035/8260B	09/16/12 07:43	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	610	5035/8260B	09/16/12 07:43	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	610	5035/8260B	09/16/12 07:43	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.20 (continued)

Sample Tag: SB-A2-OP67_7'-8'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/16/12 07:43	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 07:43	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.21
Sample Tag: SB-A2-OP67_14'-15'
Collected Date/Time: 09/13/2012 13:25
Matrix: Soil
COC Reference: 67976

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	95	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	76-13-1	
Acetone	Not detected	ug/kg	570	5035/8260B	09/16/12 08:01	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	570	5035/8260B	09/16/12 08:01	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	570	5035/8260B	09/16/12 08:01	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	570	5035/8260B	09/16/12 08:01	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	570	5035/8260B	09/16/12 08:01	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.21 (continued)

Sample Tag: SB-A2-OP67_14'-15'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/16/12 08:01	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:01	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.22
Sample Tag: SB-A2-OP67_19'-20'
Collected Date/Time: 09/13/2012 13:34
Matrix: Soil
COC Reference: 67976

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	91	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	76-13-1	
Acetone	Not detected	ug/kg	580	5035/8260B	09/16/12 08:19	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	580	5035/8260B	09/16/12 08:19	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	580	5035/8260B	09/16/12 08:19	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	580	5035/8260B	09/16/12 08:19	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	580	5035/8260B	09/16/12 08:19	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.22 (continued)

Sample Tag: SB-A2-OP67_19'-20'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/16/12 08:19	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/16/12 08:19	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.23
Sample Tag: SB-A2-OP67_24'-25'
Collected Date/Time: 09/13/2012 13:45
Matrix: Soil
COC Reference: 67976

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	91	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	76-13-1	
Acetone	Not detected	ug/kg	570	5035/8260B	09/17/12 15:50	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	570	5035/8260B	09/17/12 15:50	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	570	5035/8260B	09/17/12 15:50	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	570	5035/8260B	09/17/12 15:50	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	570	5035/8260B	09/17/12 15:50	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.23 (continued)

Sample Tag: SB-A2-OP67_24'-25'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/17/12 15:50	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 15:50	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.24
Sample Tag: SB-A2-OP67_28'-29'
Collected Date/Time: 09/13/2012 13:54
Matrix: Soil
COC Reference: 67976

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	90	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	76-13-1	
Acetone	Not detected	ug/kg	630	5035/8260B	09/17/12 16:08	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	630	5035/8260B	09/17/12 16:08	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	630	5035/8260B	09/17/12 16:08	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	630	5035/8260B	09/17/12 16:08	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	630	5035/8260B	09/17/12 16:08	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.24 (continued)

Sample Tag: SB-A2-OP67_28'-29'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/17/12 16:08	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:08	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.25
Sample Tag: SB-A2-OT59_1'-2'
Collected Date/Time: 09/13/2012 14:40
Matrix: Soil
COC Reference: 67975

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	88	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	76-13-1	
Acetone	Not detected	ug/kg	640	5035/8260B	09/17/12 16:25	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	640	5035/8260B	09/17/12 16:25	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	640	5035/8260B	09/17/12 16:25	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	640	5035/8260B	09/17/12 16:25	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	640	5035/8260B	09/17/12 16:25	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.25 (continued)

Sample Tag: SB-A2-OT59_1'-2'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/17/12 16:25	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:25	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.26
Sample Tag: SB-A2-OT59_5'-6'
Collected Date/Time: 09/13/2012 14:50
Matrix: Soil
COC Reference: 67975

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	88	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	76-13-1	
Acetone	Not detected	ug/kg	620	5035/8260B	09/17/12 16:43	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	620	5035/8260B	09/17/12 16:43	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	620	5035/8260B	09/17/12 16:43	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	620	5035/8260B	09/17/12 16:43	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	620	5035/8260B	09/17/12 16:43	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.26 (continued)

Sample Tag: SB-A2-OT59_5'-6'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/17/12 16:43	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 16:43	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.27
Sample Tag: SB-A2-OT59_10'-11'
Collected Date/Time: 09/13/2012 15:00
Matrix: Soil
COC Reference: 67975

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	91	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	76-13-1	
Acetone	Not detected	ug/kg	610	5035/8260B	09/17/12 17:01	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	610	5035/8260B	09/17/12 17:01	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	610	5035/8260B	09/17/12 17:01	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	610	5035/8260B	09/17/12 17:01	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	610	5035/8260B	09/17/12 17:01	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.27 (continued)

Sample Tag: SB-A2-OT59_10'-11'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/17/12 17:01	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:01	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.28
Sample Tag: SB-A2-OT59_23'-24'
Collected Date/Time: 09/13/2012 15:15
Matrix: Soil
COC Reference: 67975

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	91	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	76-13-1	
Acetone	Not detected	ug/kg	610	5035/8260B	09/17/12 17:18	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	610	5035/8260B	09/17/12 17:18	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	610	5035/8260B	09/17/12 17:18	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	610	5035/8260B	09/17/12 17:18	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	610	5035/8260B	09/17/12 17:18	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.28 (continued)

Sample Tag: SB-A2-OT59_23'-24'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/17/12 17:18	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:18	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.29
Sample Tag: SB-A2-OT59_29'-30'
Collected Date/Time: 09/13/2012 15:22
Matrix: Soil
COC Reference: 67975

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	92	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	76-13-1	
Acetone	Not detected	ug/kg	610	5035/8260B	09/17/12 17:36	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	610	5035/8260B	09/17/12 17:36	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	610	5035/8260B	09/17/12 17:36	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	610	5035/8260B	09/17/12 17:36	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	610	5035/8260B	09/17/12 17:36	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.29 (continued)

Sample Tag: SB-A2-OT59_29'-30'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/17/12 17:36	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:36	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.30
Sample Tag: SB-A2-OT59_16'-20'
Collected Date/Time: 09/13/2012 15:45
Matrix: Groundwater
COC Reference: 67975

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	09/14/12 17:37	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	09/16/12 03:47	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	09/16/12 03:47	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	09/16/12 03:47	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	09/16/12 03:47	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	09/16/12 03:47	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	10061-01-5	
Toluene	1	ug/L	1	SW8260B	09/16/12 03:47	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	79-00-5	
Tetrachloroethene	4	ug/L	1	SW8260B	09/16/12 03:47	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/16/12 03:47	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	95-47-6	



Analytical Laboratory Report

Lab Sample ID: S53894.30 (continued)

Sample Tag: SB-A2-OT59_16'-20'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Styrene	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	09/16/12 03:47	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S53894.31
Sample Tag: SB-A2-DUP15
Collected Date/Time: 09/13/2012 00:01
Matrix: Groundwater
COC Reference: 67975

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	09/14/12 17:57	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	09/16/12 04:07	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	09/16/12 04:07	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	09/16/12 04:07	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	09/16/12 04:07	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	09/16/12 04:07	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	10061-01-5	
Toluene	1	ug/L	1	SW8260B	09/16/12 04:07	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	79-00-5	
Tetrachloroethene	4	ug/L	1	SW8260B	09/16/12 04:07	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/16/12 04:07	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	95-47-6	



Analytical Laboratory Report

Lab Sample ID: S53894.31 (continued)

Sample Tag: SB-A2-DUP15

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Styrene	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	09/16/12 04:07	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S53894.32
Sample Tag: SB-A2-OY56_4'-5'
Collected Date/Time: 09/13/2012 16:30
Matrix: Soil
COC Reference: 67975

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	89	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	76-13-1	
Acetone	Not detected	ug/kg	630	5035/8260B	09/17/12 17:54	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	630	5035/8260B	09/17/12 17:54	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	630	5035/8260B	09/17/12 17:54	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	630	5035/8260B	09/17/12 17:54	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	630	5035/8260B	09/17/12 17:54	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.32 (continued)

Sample Tag: SB-A2-OY56_4'-5'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/17/12 17:54	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 17:54	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.33
Sample Tag: SB-A2-OY56_8'-9'
Collected Date/Time: 09/13/2012 16:45
Matrix: Soil
COC Reference: 67975

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	89	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	76-13-1	
Acetone	Not detected	ug/kg	650	5035/8260B	09/17/12 18:11	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	650	5035/8260B	09/17/12 18:11	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	650	5035/8260B	09/17/12 18:11	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	650	5035/8260B	09/17/12 18:11	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	650	5035/8260B	09/17/12 18:11	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.33 (continued)

Sample Tag: SB-A2-OY56_8'-9'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/17/12 18:11	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:11	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.34
Sample Tag: SB-A2-OY56_13'-14'
Collected Date/Time: 09/13/2012 16:55
Matrix: Soil
COC Reference: 67975

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	90	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	76-13-1	
Acetone	Not detected	ug/kg	610	5035/8260B	09/17/12 18:29	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	610	5035/8260B	09/17/12 18:29	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	610	5035/8260B	09/17/12 18:29	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	610	5035/8260B	09/17/12 18:29	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	610	5035/8260B	09/17/12 18:29	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.34 (continued)

Sample Tag: SB-A2-OY56_13'-14'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/17/12 18:29	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:29	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.35
Sample Tag: SB-A2-OY56_24'-25'
Collected Date/Time: 09/13/2012 17:20
Matrix: Soil
COC Reference: 67975

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	91	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	76-13-1	
Acetone	Not detected	ug/kg	580	5035/8260B	09/17/12 18:47	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	580	5035/8260B	09/17/12 18:47	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	580	5035/8260B	09/17/12 18:47	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	580	5035/8260B	09/17/12 18:47	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	580	5035/8260B	09/17/12 18:47	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.35 (continued)

Sample Tag: SB-A2-OY56_24'-25'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/17/12 18:47	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 18:47	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.36
Sample Tag: SB-A2-OY56_20'-24'
Collected Date/Time: 09/13/2012 17:40
Matrix: Groundwater
COC Reference: 67975

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	09/14/12 18:17	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	09/16/12 04:28	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	09/16/12 04:28	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	09/16/12 04:28	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	67-66-3	
1,1,1-Trichloroethane	2	ug/L	1	SW8260B	09/16/12 04:28	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	09/16/12 04:28	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	09/16/12 04:28	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	79-00-5	
Tetrachloroethene	232	ug/L	1	SW8260B	09/16/12 04:28	WAT	127-18-4	E
Dibromochloromethane	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/16/12 04:28	WAT		

E-Concentration exceeds calibration range



Analytical Laboratory Report

Lab Sample ID: S53894.36 (continued)

Sample Tag: SB-A2-OY56_20'-24'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	09/16/12 04:28	WAT	96-12-8	
TCL Volatile Organics 8260 (Replicate 01)								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	76-13-1	Y
Acetone	Not detected	ug/L	50	SW8260B	09/17/12 18:13	WAT	67-64-1	Y
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	75-15-0	Y
Methyl Acetate	Not detected	ug/L	50	SW8260B	09/17/12 18:13	WAT	79-20-9	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	1634-04-4	Y
2-Butanone (MEK)	Not detected	ug/L	50	SW8260B	09/17/12 18:13	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	75-01-4	Y
Bromomethane	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	156-59-2	Y
Chloroform	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	67-66-3	Y
1,1,1-Trichloroethane	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	71-55-6	Y
Cyclohexane	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	110-82-7	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/17/12 18:13	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	50	SW8260B	09/17/12 18:13	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	56-23-5	Y
Benzene	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	75-27-4	Y
Methyl cyclohexane	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	108-87-2	Y
cis-1,3-Dichloropropene	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	10061-01-5	Y
Toluene	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	79-00-5	Y
Tetrachloroethene	243	ug/L	5	SW8260B	09/17/12 18:13	WAT	127-18-4	Y
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	124-48-1	Y
Chlorobenzene	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	108-90-7	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S53894.36 (continued)

Sample Tag: SB-A2-OY56_20'-24'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (Replicate 01) (continued)								
1,1,2,2-Tetrachloroethane	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	79-34-5	Y
Ethylbenzene	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	100-41-4	Y
p,m-Xylene	Not detected	ug/L	10	SW8260B	09/17/12 18:13	WAT		Y
o-Xylene	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	95-47-6	Y
Styrene	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	75-25-2	Y
1,3-Dichlorobenzene	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	95-50-1	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	120-82-1	Y
1,2-Dibromoethane	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	106-93-4	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/17/12 18:13	WAT	96-12-8	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S53894.37
Sample Tag: SB-A2-OY56_29'-30'
Collected Date/Time: 09/13/2012 17:55
Matrix: Soil
COC Reference: 67977

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	91	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	76-13-1	
Acetone	Not detected	ug/kg	600	5035/8260B	09/17/12 19:04	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	600	5035/8260B	09/17/12 19:04	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	600	5035/8260B	09/17/12 19:04	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	600	5035/8260B	09/17/12 19:04	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	600	5035/8260B	09/17/12 19:04	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53894.37 (continued)

Sample Tag: SB-A2-OY56_29'-30'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/17/12 19:04	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/17/12 19:04	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53894.38
Sample Tag: SB-A2-OY56_29'-30' MS
Collected Date/Time: 09/13/2012 17:55
Matrix: Soil
COC Reference: 67977

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	93	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	3,430	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	76-13-1	1
Acetone	2,160	ug/kg	590	5035/8260B	09/17/12 20:15	WAT	67-64-1	1
Carbon disulfide	3,080	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	75-15-0	1
Methyl Acetate	2,790	ug/kg	590	5035/8260B	09/17/12 20:15	WAT	79-20-9	1
tert-Methyl butyl ether (MTBE)	2,920	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	1634-04-4	1
2-Butanone (MEK)	2,230	ug/kg	590	5035/8260B	09/17/12 20:15	WAT	78-93-3	1
Dichlorodifluoromethane	3,650	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	75-71-8	1
Chloromethane	3,210	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	74-87-3	1
Vinyl chloride	3,020	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	75-01-4	1
Bromomethane	3,530	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	74-83-9	1
Chloroethane	3,030	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	75-00-3	1
Trichlorofluoromethane	1,690	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	75-69-4	1
1,1-Dichloroethene	3,290	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	75-35-4	1
Methylene chloride	3,210	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	75-09-2	1
trans-1,2-Dichloroethene	3,110	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	156-60-5	1
1,1-Dichloroethane	3,130	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	75-34-3	1
cis-1,2-Dichloroethene	3,280	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	156-59-2	1
Chloroform	3,180	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	67-66-3	1
1,1,1-Trichloroethane	3,060	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	71-55-6	1
Cyclohexane	2,450	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	110-82-7	1
4-Methyl-2-pentanone (MIBK)	2,920	ug/kg	590	5035/8260B	09/17/12 20:15	WAT	108-10-1	1
2-Hexanone	2,490	ug/kg	590	5035/8260B	09/17/12 20:15	WAT	591-78-6	1
Carbon tetrachloride	3,150	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	56-23-5	1
Benzene	3,190	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	71-43-2	1
1,2-Dichloroethane	3,170	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	107-06-2	1
Trichloroethene	3,260	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	79-01-6	1
1,2-Dichloropropane	3,170	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	78-87-5	1
Bromodichloromethane	3,150	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	75-27-4	1
Methyl cyclohexane	3,200	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	108-87-2	1
cis-1,3-Dichloropropene	3,090	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	10061-01-5	1
Toluene	3,220	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	108-88-3	1
trans-1,3-Dichloropropene	2,530	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	10061-02-6	1
1,1,2-Trichloroethane	3,240	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	79-00-5	1
Tetrachloroethene	3,140	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	127-18-4	1
Dibromochloromethane	2,680	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	124-48-1	1
1,2-Dibromoethane	3,170	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	106-93-4	1
Chlorobenzene	3,200	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	108-90-7	1

1-Spiked at 2.5mg/kg



Analytical Laboratory Report

Lab Sample ID: S53894.38 (continued)

Sample Tag: SB-A2-OY56_29'-30' MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
1,1,2,2-Tetrachloroethane	3,160	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	79-34-5	1
Ethylbenzene	3,240	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	100-41-4	1
p,m-Xylene	6,500	ug/kg	100	5035/8260B	09/17/12 20:15	WAT		1
o-Xylene	3,250	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	95-47-6	1
Styrene	3,230	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	100-42-5	1
Isopropylbenzene	3,240	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	98-82-8	1
Bromoform	2,830	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	75-25-2	1
1,3-Dichlorobenzene	3,290	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	541-73-1	1
1,4-Dichlorobenzene	3,220	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	106-46-7	1
1,2-Dichlorobenzene	3,270	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	95-50-1	1
1,2-Dibromo-3-chloropropane	2,740	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	96-12-8	1
1,2,4-Trichlorobenzene	3,230	ug/kg	60	5035/8260B	09/17/12 20:15	WAT	120-82-1	1

1-Spiked at 2.5mg/kg



Analytical Laboratory Report

Lab Sample ID: S53894.39
Sample Tag: SB-A2-OY56_29'-30' MSD
Collected Date/Time: 09/13/2012 17:55
Matrix: Soil
COC Reference: 67977

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	92	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	3,520	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	76-13-1	1
Acetone	1,970	ug/kg	580	5035/8260B	09/17/12 20:33	WAT	67-64-1	1
Carbon disulfide	3,110	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	75-15-0	1
Methyl Acetate	2,730	ug/kg	580	5035/8260B	09/17/12 20:33	WAT	79-20-9	1
tert-Methyl butyl ether (MTBE)	2,890	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	1634-04-4	1
2-Butanone (MEK)	2,130	ug/kg	580	5035/8260B	09/17/12 20:33	WAT	78-93-3	1
Dichlorodifluoromethane	3,670	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	75-71-8	1
Chloromethane	3,170	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	74-87-3	1
Vinyl chloride	3,040	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	75-01-4	1
Bromomethane	3,550	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	74-83-9	1
Chloroethane	3,050	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	75-00-3	1
Trichlorofluoromethane	1,760	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	75-69-4	1
1,1-Dichloroethene	3,380	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	75-35-4	1
Methylene chloride	3,220	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	75-09-2	1
trans-1,2-Dichloroethene	3,090	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	156-60-5	1
1,1-Dichloroethane	3,130	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	75-34-3	1
cis-1,2-Dichloroethene	3,250	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	156-59-2	1
Chloroform	3,180	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	67-66-3	1
1,1,1-Trichloroethane	3,090	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	71-55-6	1
Cyclohexane	2,470	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	110-82-7	1
4-Methyl-2-pentanone (MIBK)	2,750	ug/kg	580	5035/8260B	09/17/12 20:33	WAT	108-10-1	1
2-Hexanone	2,360	ug/kg	580	5035/8260B	09/17/12 20:33	WAT	591-78-6	1
Carbon tetrachloride	3,110	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	56-23-5	1
Benzene	3,120	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	71-43-2	1
1,2-Dichloroethane	3,080	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	107-06-2	1
Trichloroethene	3,130	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	79-01-6	1
1,2-Dichloropropane	3,100	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	78-87-5	1
Bromodichloromethane	3,110	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	75-27-4	1
Methyl cyclohexane	3,140	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	108-87-2	1
cis-1,3-Dichloropropene	3,050	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	10061-01-5	1
Toluene	3,140	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	108-88-3	1
trans-1,3-Dichloropropene	2,490	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	10061-02-6	1
1,1,2-Trichloroethane	3,140	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	79-00-5	1
Tetrachloroethene	3,020	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	127-18-4	1
Dibromochloromethane	2,650	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	124-48-1	1
1,2-Dibromoethane	3,110	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	106-93-4	1
Chlorobenzene	3,140	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	108-90-7	1

1-Spiked at 2.5mg/kg



Analytical Laboratory Report

Lab Sample ID: S53894.39 (continued)

Sample Tag: SB-A2-OY56_29'-30' MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
1,1,2,2-Tetrachloroethane	3,140	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	79-34-5	1
Ethylbenzene	3,180	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	100-41-4	1
p,m-Xylene	6,300	ug/kg	100	5035/8260B	09/17/12 20:33	WAT		1
o-Xylene	3,180	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	95-47-6	1
Styrene	3,180	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	100-42-5	1
Isopropylbenzene	3,210	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	98-82-8	1
Bromoform	2,740	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	75-25-2	1
1,3-Dichlorobenzene	3,200	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	541-73-1	1
1,4-Dichlorobenzene	3,140	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	106-46-7	1
1,2-Dichlorobenzene	3,190	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	95-50-1	1
1,2-Dibromo-3-chloropropane	2,660	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	96-12-8	1
1,2,4-Trichlorobenzene	3,070	ug/kg	60	5035/8260B	09/17/12 20:33	WAT	120-82-1	1

1-Spiked at 2.5mg/kg

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME **Randy Christensen**
COMPANY **ARCADIS**
ADDRESS **10559 Citiation Drive Suite 100**
CITY **Brighton** STATE **MI** ZIP CODE **48116**
PHONE NO. **810-225-1910** FAX NO. P.O. NO. **PO125047**
E-MAIL ADDRESS **randy.christensen@arcadis-us.com** QUOTE NO. **Task#: 00105**

CONTACT NAME **Dave Favero** ☐ SAME
COMPANY **RACER TRUST**
ADDRESS **2930 Ecorse Road**
CITY **Ypsilanti** STATE **MI** ZIP CODE **48198**
PHONE NO. **313-486-9208** E-MAIL ADDRESS **dfavero@racetrust.org**

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME **Lansing Plant 2 Project# 80064479 2012.00105** SAMPLER(S) PLEASE PRINT/SIGN NAME **Alex Villhauer**
TURNAROUND TIME REQUIRED ☐ 1 DAY ☒ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW-GROUNDWATER WW-WASTEWATER S-SOIL L-LIQUID SD-SOLID
SL-SLUDGE DW-DRINKING WATER O-OIL WP-WIPE A-AIR W-WASTE

Containers & Preservatives

MERIT LAB NO.	DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	VOCs	SVOCs	PCBs	Metals (w/lig)	MS	MSD	1,4 dioxane (SIMS)	Certifications	Project Locations	Special Instructions
5389401	9/13	8:00	Trip blank		1								X							☐ OHIO VAP ☐ Drinking Water	☐ Detroit ☐ New York	
02	9/13	8:42	SB-A2-OT74-1'-2'	S	2	1							X							☐ DoD ☐ NPDES		
03	9/13	8:42	SB-A2-OT74-1'-2' MS	S	2	1							X				X					
04	9/13	8:42	SB-A2-OT74-1'-2' MSD	S	2	1							X				X					
05	9/13	9:00	SB-A2-OT74-0'-7'	S	2	1							X									
06	9/13	9:09	SB-A2-OT74-10'-11'	S	2	1							X									
07	9/13	10:09	SB-A2-OT74-17'-18'	S	2	1							X									
08	9/13	-	SB-A2-DVP13	S	2	1							X									
09	9/13	10:15	SB-A2-OT74-23'-24'	S	2	1							X									
10	9/13	10:23	SB-A2-OT74-29'-30'	S	2	1							X									
11	9/13	10:25	SD-A2-OT74-12'-13'	GW	2	2							X					X				
12	9/13	10:55	SB-A2-PC76-2'-3'	S	2	1							X									

RELINQUISHED BY: **AP Villhauer /PME** *Sampler DATE **9/13/12** TIME **18:55**
RELINQUISHED BY: **PM Storage** DATE **9/13/12** TIME **18:55**
RELINQUISHED BY: **SW** DATE **9/14/12** TIME **9:30**

RELINQUISHED BY: **DF** DATE **9-14-12** TIME
RELINQUISHED BY: **Parade** DATE **9-14-12** TIME **10:15**
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS NOTES: TEMP. ON ARRIVAL **4.3**
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME **Randy Christensen**
COMPANY **ARCADIS**
ADDRESS **10559 Citation Drive Suite 100**
CITY **Brighton** STATE **MI** ZIP CODE **48116**
PHONE NO. **810-225-1910** FAX NO. **PO125047**
E-MAIL ADDRESS **randy.christensen@arcadis-us.com** QUOTE NO. **Task#: 00105**

CONTACT NAME **Dave Favero** ☐ SAME
COMPANY **RACER TRUST**
ADDRESS **2930 Ecorse Road**
CITY **Ypsilanti** STATE **MI** ZIP CODE **48198**
PHONE NO. **313-486-9208** E-MAIL ADDRESS **dfavero@racertrust.org**
ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME **Lansing Plant 2 Project# 80064479.2012.00105** SAMPLER(S) - PLEASE PRINT/SIGN NAME *Alex Villhener / Alex Villhener*
TURNAROUND TIME REQUIRED ☐ 1 DAY ☒ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIFE A=AIR W=WASTE

Containers & Preservatives

MERIT LAB NO.	YEAR	DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	TCL VOCs	TCL SVOCs	PCBs	TAL Metals (w/Hg)	1,4 dioxane (SIMS)	Certifications	Project Locations	Special Instructions
53874, B	2012	9/13	11:05	SB-A2-PC76-10'-11'	S	2								X					☐ OHIO VAP ☐ Drinking Water	☐ Detroit ☐ New York	
.14		9/13	—	SB-A2-DUP14	S	2								X					☐ DoD ☐ NPDES		
.15		9/13	11:15	SB-A2-PC76-9.5'-10'	S	2								X							
.16		9/13	11:38	SB-A2-PC76-17'-18'	S	2								X							
.17		9/13	12:00	SB-A2-PC76-23'-24'	S	2								X							
.18		9/13	12:10	SB-A2-PC76-29'-30'	S	2								X							
.19		9/13	13:00	SB-A2-OP67-1'-2'	S	2								X							
.20		9/13	13:18	SB-A2-OP67-7'-8'	S	2								X							
.21		9/13	13:25	SB-A2-OP67-14'-15'	S	2								X							
.22		9/13	13:34	SB-A2-OP67-19'-20'	S	2								X							
.23		9/13	13:45	SB-A2-OP67-24'-25'	S	2								X							
.24		9/13	13:54	SB-A2-OP67-28'-29'	S	2								X							

RELINQUISHED BY: *Alex Villhener / PME* Sampler DATE **9/13/12** TIME **18:55**
RELINQUISHED BY: *PM Storage* DATE **9/13/12** TIME **18:55**
RELINQUISHED BY: *[Signature]* DATE **9/14/12** TIME **9:30**
RELINQUISHED BY: *[Signature]* DATE **9/14/12** TIME **9:30**

RELINQUISHED BY: *[Signature]* DATE **9-14-12** TIME **10:15**
RELINQUISHED BY: *[Signature]* DATE **9-14-12** TIME **10:15**
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
NOTES: TEMP. ON ARRIVAL **63**

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME **Randy Christensen**

COMPANY **ARCADIS**

ADDRESS **10559 Citation Drive Suite 100**

CITY **Brighton** STATE **MI** ZIP CODE **48116**

PHONE NO. **810-225-1910** FAX NO. P.O. NO. **PO125047**

E-MAIL ADDRESS **randy.christensen@arcadis-us.com** QUOTE NO. **Task# 00105**

CONTACT NAME **Dave Favero** ☐ SAME

COMPANY **RACER TRUST**

ADDRESS **2930 Ecorse Road**

CITY **Ypsilanti** STATE **MI** ZIP CODE **48198**

PHONE NO. **313-486-9208** E-MAIL ADDRESS **dfavero@racertrust.org**

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME **Lansing Plant 2 Project# B0064479.2012.00105** SAMPLER(S) - PLEASE PRINT/SIGN NAME **Alex Villacusi / [Signature]**

TURNAROUND TIME REQUIRED ☐ 1 DAY ☒ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIFE A=AIR W=WASTE

Containers & Preservatives

MERIT LAB NO. FOR LAB USE ONLY	YEAR <u>2012</u>		SAMPLE TAG IDENTIFICATION-DESCRIPTION		MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	TCL	TCL	TAG	LYC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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RELINQUISHED BY: **[Signature] / PME** ☒ Sampler DATE **9/13/12** TIME **18:55**

RELINQUISHED BY: **PM Storage** DATE **9/13/12** TIME **18:55**

RELINQUISHED BY: **[Signature]** DATE **9-14-12** TIME **9:30**

RELINQUISHED BY: DATE TIME

RELINQUISHED BY: **[Signature]** DATE **9/14/12** TIME **10:15**

RELINQUISHED BY: **[Signature]** DATE **9/14/12** TIME **10:15**

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS NOTES: TEMP. ON ARRIVAL **4.2**

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS



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4

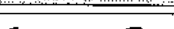
67977

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208	E-MAIL ADDRESS dfavero@racertrust.org		
ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)			

		# Containers & Preservatives <table border="1"> <tr> <td>HCl</td> <td>HNO₃</td> <td>H₂SO₄</td> <td>NaOH</td> <td>MeOH</td> <td>OTHER</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER							TCL VOCs TCL SVOCs PCBs TAL Metals (wHg) 1,4-dioxane (STD) MS MSD	Certifications ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES Project Locations ☐ Detroit ☐ New York ☐ Other _____ Special Instructions
HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER												

Containers & Preservatives

HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 9-14-12		TIME 10:15
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 9-14-12		TIME 10:15
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 4.3	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



Analytical Laboratory Report

Report ID: S53895.01(01)
Generated on 09/19/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S53895.01-S53895.09
Project: Lansing Plant #2 Project# B0064479.2012.00105
Collected Date: 09/13/2012
Submitted Date/Time: 09/14/2012 10:15
Sampled by: Colleen Barton
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)
Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (9 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S53895.01	VAP-P2W-OB66_22-24	Groundwater	09/13/2012 09:40
S53895.02	VAP-A2-PA66_22-23	Soil	09/13/2012 13:42
S53895.03	VAP-A2-PA66_27-28	Soil	09/13/2012 13:54
S53895.04	VAP-A2-PA66_31-32	Soil	09/13/2012 14:10
S53895.05	VAP-A2-PA66_37-38	Soil	09/13/2012 14:25
S53895.06	VAP-A2-PA66_43-44	Soil	09/13/2012 14:55
S53895.07	VAP-A2-PA66_49-50	Soil	09/13/2012 15:15
S53895.08	VAP-A2-PA66_53-54	Soil	09/13/2012 15:31
S53895.09	VAP-A2-DUP12	Soil	09/13/2012 00:01



Analytical Laboratory Report

Lab Sample ID: S53895.01
Sample Tag: VAP-P2W-OB66_22-24
Collected Date/Time: 09/13/2012 09:40
Matrix: Groundwater
COC Reference: 67971

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	11	ug/L	5	SW8260B - SIM	09/14/12 18:37	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	09/16/12 04:48	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	09/16/12 04:48	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	09/16/12 04:48	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	09/16/12 04:48	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	09/16/12 04:48	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/16/12 04:48	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	95-47-6	



Analytical Laboratory Report

Lab Sample ID: S53895.01 (continued)

Sample Tag: VAP-P2W-OB66_22-24

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Styrene	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	09/16/12 04:48	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S53895.02
Sample Tag: VAP-A2-PA66_22-23
Collected Date/Time: 09/13/2012 13:42
Matrix: Soil
COC Reference: 67971

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.3	IR
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	90	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	76-13-1	
Acetone	Not detected	ug/kg	630	5035/8260B	09/18/12 15:53	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	630	5035/8260B	09/18/12 15:53	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	630	5035/8260B	09/18/12 15:53	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	630	5035/8260B	09/18/12 15:53	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	630	5035/8260B	09/18/12 15:53	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53895.02 (continued)

Sample Tag: VAP-A2-PA66_22-23

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/18/12 15:53	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 15:53	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53895.03
Sample Tag: VAP-A2-PA66_27-28
Collected Date/Time: 09/13/2012 13:54
Matrix: Soil
COC Reference: 67971

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.3	IR
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	93	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	76-13-1	
Acetone	Not detected	ug/kg	580	5035/8260B	09/18/12 16:11	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	580	5035/8260B	09/18/12 16:11	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	580	5035/8260B	09/18/12 16:11	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	580	5035/8260B	09/18/12 16:11	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	580	5035/8260B	09/18/12 16:11	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53895.03 (continued)

Sample Tag: VAP-A2-PA66_27-28

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/18/12 16:11	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:11	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53895.04
Sample Tag: VAP-A2-PA66_31-32
Collected Date/Time: 09/13/2012 14:10
Matrix: Soil
COC Reference: 67971

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.3	IR
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	88	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	76-13-1	
Acetone	Not detected	ug/kg	650	5035/8260B	09/18/12 16:30	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	650	5035/8260B	09/18/12 16:30	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	650	5035/8260B	09/18/12 16:30	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	650	5035/8260B	09/18/12 16:30	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	650	5035/8260B	09/18/12 16:30	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53895.04 (continued)

Sample Tag: VAP-A2-PA66_31-32

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/18/12 16:30	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/18/12 16:30	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53895.05
Sample Tag: VAP-A2-PA66_37-38
Collected Date/Time: 09/13/2012 14:25
Matrix: Soil
COC Reference: 67971

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.3	IR
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	92	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	76-13-1	
Acetone	Not detected	ug/kg	580	5035/8260B	09/18/12 16:48	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	580	5035/8260B	09/18/12 16:48	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	580	5035/8260B	09/18/12 16:48	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	580	5035/8260B	09/18/12 16:48	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	580	5035/8260B	09/18/12 16:48	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53895.05 (continued)

Sample Tag: VAP-A2-PA66_37-38

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/18/12 16:48	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 16:48	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53895.06
Sample Tag: VAP-A2-PA66_43-44
Collected Date/Time: 09/13/2012 14:55
Matrix: Soil
COC Reference: 67971

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.3	IR
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	90	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	76-13-1	
Acetone	Not detected	ug/kg	630	5035/8260B	09/18/12 17:06	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	630	5035/8260B	09/18/12 17:06	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	630	5035/8260B	09/18/12 17:06	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	630	5035/8260B	09/18/12 17:06	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	630	5035/8260B	09/18/12 17:06	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53895.06 (continued)

Sample Tag: VAP-A2-PA66_43-44

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/18/12 17:06	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:06	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53895.07
Sample Tag: VAP-A2-PA66_49-50
Collected Date/Time: 09/13/2012 15:15
Matrix: Soil
COC Reference: 67971

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.3	IR
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	93	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	76-13-1	
Acetone	Not detected	ug/kg	580	5035/8260B	09/18/12 17:24	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	580	5035/8260B	09/18/12 17:24	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	580	5035/8260B	09/18/12 17:24	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	580	5035/8260B	09/18/12 17:24	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	580	5035/8260B	09/18/12 17:24	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53895.07 (continued)

Sample Tag: VAP-A2-PA66_49-50

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/18/12 17:24	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 17:24	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53895.08
Sample Tag: VAP-A2-PA66_53-54
Collected Date/Time: 09/13/2012 15:31
Matrix: Soil
COC Reference: 67971

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.3	IR
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	85	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	76-13-1	
Acetone	Not detected	ug/kg	680	5035/8260B	09/18/12 17:43	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	680	5035/8260B	09/18/12 17:43	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	680	5035/8260B	09/18/12 17:43	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	680	5035/8260B	09/18/12 17:43	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	680	5035/8260B	09/18/12 17:43	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53895.08 (continued)

Sample Tag: VAP-A2-PA66_53-54

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/18/12 17:43	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/18/12 17:43	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53895.09
Sample Tag: VAP-A2-DUP12
Collected Date/Time: 09/13/2012 00:01
Matrix: Soil
COC Reference: 67971

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.3	IR
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	90	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	76-13-1	
Acetone	Not detected	ug/kg	610	5035/8260B	09/18/12 18:01	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	610	5035/8260B	09/18/12 18:01	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	610	5035/8260B	09/18/12 18:01	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	610	5035/8260B	09/18/12 18:01	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	610	5035/8260B	09/18/12 18:01	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53895.09 (continued)

Sample Tag: VAP-A2-DUP12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/18/12 18:01	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/18/12 18:01	WAT	120-82-1	

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME **Randy Christensen**
COMPANY **ARCADIS**
ADDRESS **10559 Citation Drive Suite 100**
CITY **Brighton** STATE **MI** ZIP CODE **48116**
PHONE NO. **810-225-1910** FAX NO. **PO125047**
E-MAIL ADDRESS **randy.christensen@arcadis-us.com** QUOTE NO. **Task# 00105**

CONTACT NAME **Dave Favero** ☐ SAME
COMPANY **RACER TRUST**
ADDRESS **2930 Ecorse Road**
CITY **Ypsilanti** STATE **MI** ZIP CODE **48198**
PHONE NO. **313-486-9208** E-MAIL ADDRESS **dfavero@racetrust.org**

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME **Lansing Plant 2 Project# B0064479.2012.00105** SAMPLER(S) - PLEASE PRINT/SIGN NAME **Colleen Burton**
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☒ OTHER **7 Days**
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions

MATRIX CODE: GW-GROUNDWATER WW-WASTEWATER S-SOIL L-LIQUID SD-SOLID
SL-SLUDGE DW-DRINKING WATER O-OIL WP-WIPE A-AIR W-WASTE

Containers & Preservatives

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	VOCs/14- BTEX	SVOCs- VOCs	PEB- OCs	Metal- (add)
53895.01	9-13-12	0940	VAP-P2W-OB66-22-24	GW	2	2							X			
02	9-13-12	1342	VAP-P2W-A2-PA66-22-23	S	2	1				1				X	X	
03	9-13-12	1354	VAP-A2-PA66-27-28	S	2	1				1				X	X	
04	9-13-12	1410	VAP-A2-PA66-31-32	S	2	1				1				X	X	
05	9-13-12	1425	VAP-A2-PA66-37-38	S	2	1				1				X	X	
06	9-13-12	1455	VAP-A2-PA66-43-44	S	2	1				1				X	X	
07	9-13-12	1515	VAP-A2-PA66-49-50	S	2	1				1				X	X	
08	9-13-12	1531	VAP-A2-PA66-53-54	S	2	1				1				X	X	
09	9-13-12	-	DUPI2-09132012	S	2	1				1				X	X	

RELINQUISHED BY: **Colleen Burton/Arcadis** ☒ Sampler DATE **9-13-12** TIME **1712**
RELINQUISHED BY: **Colleen Burton/PME** DATE **9/13/12** TIME **1612**
RELINQUISHED BY: **Colleen Burton/PINE** DATE **9/13/12** TIME **18:55**
RELINQUISHED BY: **PM Storage** DATE **9/13/12** TIME **18:55**

RELINQUISHED BY: **Colleen Burton** DATE **9-14-12** TIME **9:30**
RELINQUISHED BY: **Colleen Burton** DATE **9-14-12** TIME **1015**
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
NOTES: TEMP. ON ARRIVAL **4.3**



Analytical Laboratory Report

Report ID: S53909.01(01)
Generated on 09/21/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S53909.01-S53909.04
Project: Lansing Plant #2 Project# B0064479.2012.00105
Collected Date: 09/14/2012
Submitted Date/Time: 09/14/2012 16:00
Sampled by: Unknown
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)
Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (4 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S53909.01	VAP-P2W-QD70_9-11	Groundwater	09/14/2012 09:45
S53909.02	VAP-P2W-QD70_9-11 MS	Groundwater	09/14/2012 09:45
S53909.03	VAP-P2W-QD70_9-11 MSD	Groundwater	09/14/2012 09:45
S53909.04	VAP-P6S-SY103_1-2	Soil	09/14/2012 14:30



Analytical Laboratory Report

Lab Sample ID: S53909.01
Sample Tag: VAP-P2W-QD70_9-11
Collected Date/Time: 09/14/2012 09:45
Matrix: Groundwater
COC Reference: 68732

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	09/17/12 18:29	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	09/17/12 17:53	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	09/17/12 17:53	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	09/17/12 17:53	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	09/17/12 17:53	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	09/17/12 17:53	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	10061-01-5	
Toluene	1	ug/L	1	SW8260B	09/17/12 17:53	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/17/12 17:53	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	95-47-6	



Analytical Laboratory Report

Lab Sample ID: S53909.01 (continued)

Sample Tag: VAP-P2W-QD70_9-11

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Styrene	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	09/17/12 17:53	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S53909.02
Sample Tag: VAP-P2W-QD70_9-11 MS
Collected Date/Time: 09/14/2012 09:45
Matrix: Groundwater
COC Reference: 68732

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
1,4-Dioxane	46	ug/L	5	SW8260B - SIM	09/17/12 18:49	WAT	123-91-1	1
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	54	ug/L	1	SW8260B	09/17/12 18:33	WAT	76-13-1	1
Acetone	28	ug/L	10	SW8260B	09/17/12 18:33	WAT	67-64-1	1
Carbon disulfide	39	ug/L	1	SW8260B	09/17/12 18:33	WAT	75-15-0	1
Methyl Acetate	50	ug/L	10	SW8260B	09/17/12 18:33	WAT	79-20-9	1
tert-Methyl butyl ether (MTBE)	53	ug/L	1	SW8260B	09/17/12 18:33	WAT	1634-04-4	1
2-Butanone (MEK)	33	ug/L	10	SW8260B	09/17/12 18:33	WAT	78-93-3	1
Dichlorodifluoromethane	49	ug/L	1	SW8260B	09/17/12 18:33	WAT	75-71-8	1
Chloromethane	46	ug/L	1	SW8260B	09/17/12 18:33	WAT	74-87-3	1
Vinyl chloride	34	ug/L	1	SW8260B	09/17/12 18:33	WAT	75-01-4	1
Bromomethane	52	ug/L	1	SW8260B	09/17/12 18:33	WAT	74-83-9	1
Chloroethane	49	ug/L	1	SW8260B	09/17/12 18:33	WAT	75-00-3	1
Trichlorofluoromethane	65	ug/L	1	SW8260B	09/17/12 18:33	WAT	75-69-4	1
1,1-Dichloroethene	55	ug/L	1	SW8260B	09/17/12 18:33	WAT	75-35-4	1
Methylene chloride	48	ug/L	1	SW8260B	09/17/12 18:33	WAT	75-09-2	1
trans-1,2-Dichloroethene	53	ug/L	1	SW8260B	09/17/12 18:33	WAT	156-60-5	1
1,1-Dichloroethane	53	ug/L	1	SW8260B	09/17/12 18:33	WAT	75-34-3	1
cis-1,2-Dichloroethene	52	ug/L	1	SW8260B	09/17/12 18:33	WAT	156-59-2	1
Chloroform	58	ug/L	1	SW8260B	09/17/12 18:33	WAT	67-66-3	1
1,1,1-Trichloroethane	62	ug/L	1	SW8260B	09/17/12 18:33	WAT	71-55-6	1
Cyclohexane	45	ug/L	1	SW8260B	09/17/12 18:33	WAT	110-82-7	1
4-Methyl-2-pentanone (MIBK)	49	ug/L	10	SW8260B	09/17/12 18:33	WAT	108-10-1	1
2-Hexanone	41	ug/L	10	SW8260B	09/17/12 18:33	WAT	591-78-6	1
Carbon tetrachloride	68	ug/L	1	SW8260B	09/17/12 18:33	WAT	56-23-5	1
Benzene	52	ug/L	1	SW8260B	09/17/12 18:33	WAT	71-43-2	1
1,2-Dichloroethane	66	ug/L	1	SW8260B	09/17/12 18:33	WAT	107-06-2	1
Trichloroethene	56	ug/L	1	SW8260B	09/17/12 18:33	WAT	79-01-6	1
1,2-Dichloropropane	50	ug/L	1	SW8260B	09/17/12 18:33	WAT	78-87-5	1
Bromodichloromethane	62	ug/L	1	SW8260B	09/17/12 18:33	WAT	75-27-4	1
Methyl cyclohexane	55	ug/L	1	SW8260B	09/17/12 18:33	WAT	108-87-2	1
cis-1,3-Dichloropropene	54	ug/L	1	SW8260B	09/17/12 18:33	WAT	10061-01-5	1
Toluene	53	ug/L	1	SW8260B	09/17/12 18:33	WAT	108-88-3	1
trans-1,3-Dichloropropene	56	ug/L	1	SW8260B	09/17/12 18:33	WAT	10061-02-6	1
1,1,2-Trichloroethane	53	ug/L	1	SW8260B	09/17/12 18:33	WAT	79-00-5	1
Tetrachloroethene	51	ug/L	1	SW8260B	09/17/12 18:33	WAT	127-18-4	1
Dibromochloromethane	50	ug/L	1	SW8260B	09/17/12 18:33	WAT	124-48-1	1
Chlorobenzene	50	ug/L	1	SW8260B	09/17/12 18:33	WAT	108-90-7	1
1,1,2,2-Tetrachloroethane	49	ug/L	1	SW8260B	09/17/12 18:33	WAT	79-34-5	1
Ethylbenzene	52	ug/L	1	SW8260B	09/17/12 18:33	WAT	100-41-4	1
p,m-Xylene	96	ug/L	2	SW8260B	09/17/12 18:33	WAT		1

1-Spiked at 50ug/l



Analytical Laboratory Report

Lab Sample ID: S53909.02 (continued)

Sample Tag: VAP-P2W-QD70_9-11 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	52	ug/L	1	SW8260B	09/17/12 18:33	WAT	95-47-6	1
Styrene	39	ug/L	1	SW8260B	09/17/12 18:33	WAT	100-42-5	1
Isopropylbenzene	52	ug/L	1	SW8260B	09/17/12 18:33	WAT	98-82-8	1
Bromoform	46	ug/L	1	SW8260B	09/17/12 18:33	WAT	75-25-2	1
1,3-Dichlorobenzene	50	ug/L	1	SW8260B	09/17/12 18:33	WAT	541-73-1	1
1,4-Dichlorobenzene	51	ug/L	1	SW8260B	09/17/12 18:33	WAT	106-46-7	1
1,2-Dichlorobenzene	50	ug/L	1	SW8260B	09/17/12 18:33	WAT	95-50-1	1
1,2,4-Trichlorobenzene	50	ug/L	1	SW8260B	09/17/12 18:33	WAT	120-82-1	1
1,2-Dibromoethane	52	ug/L	1	SW8260B	09/17/12 18:33	WAT	106-93-4	1
1,2-Dibromo-3-chloropropane	51	ug/L	1	SW8260B	09/17/12 18:33	WAT	96-12-8	1

1-Spiked at 50ug/l



Analytical Laboratory Report

Lab Sample ID: S53909.03
Sample Tag: VAP-P2W-QD70_9-11 MSD
Collected Date/Time: 09/14/2012 09:45
Matrix: Groundwater
COC Reference: 68732

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
1,4-Dioxane	48	ug/L	5	SW8260B - SIM	09/17/12 19:09	WAT	123-91-1	1
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	55	ug/L	1	SW8260B	09/17/12 18:53	WAT	76-13-1	1
Acetone	30	ug/L	10	SW8260B	09/17/12 18:53	WAT	67-64-1	1
Carbon disulfide	43	ug/L	1	SW8260B	09/17/12 18:53	WAT	75-15-0	1
Methyl Acetate	52	ug/L	10	SW8260B	09/17/12 18:53	WAT	79-20-9	1
tert-Methyl butyl ether (MTBE)	55	ug/L	1	SW8260B	09/17/12 18:53	WAT	1634-04-4	1
2-Butanone (MEK)	35	ug/L	10	SW8260B	09/17/12 18:53	WAT	78-93-3	1
Dichlorodifluoromethane	48	ug/L	1	SW8260B	09/17/12 18:53	WAT	75-71-8	1
Chloromethane	47	ug/L	1	SW8260B	09/17/12 18:53	WAT	74-87-3	1
Vinyl chloride	36	ug/L	1	SW8260B	09/17/12 18:53	WAT	75-01-4	1
Bromomethane	56	ug/L	1	SW8260B	09/17/12 18:53	WAT	74-83-9	1
Chloroethane	53	ug/L	1	SW8260B	09/17/12 18:53	WAT	75-00-3	1
Trichlorofluoromethane	67	ug/L	1	SW8260B	09/17/12 18:53	WAT	75-69-4	1
1,1-Dichloroethene	57	ug/L	1	SW8260B	09/17/12 18:53	WAT	75-35-4	1
Methylene chloride	50	ug/L	1	SW8260B	09/17/12 18:53	WAT	75-09-2	1
trans-1,2-Dichloroethene	55	ug/L	1	SW8260B	09/17/12 18:53	WAT	156-60-5	1
1,1-Dichloroethane	55	ug/L	1	SW8260B	09/17/12 18:53	WAT	75-34-3	1
cis-1,2-Dichloroethene	53	ug/L	1	SW8260B	09/17/12 18:53	WAT	156-59-2	1
Chloroform	60	ug/L	1	SW8260B	09/17/12 18:53	WAT	67-66-3	1
1,1,1-Trichloroethane	64	ug/L	1	SW8260B	09/17/12 18:53	WAT	71-55-6	1
Cyclohexane	46	ug/L	1	SW8260B	09/17/12 18:53	WAT	110-82-7	1
4-Methyl-2-pentanone (MIBK)	50	ug/L	10	SW8260B	09/17/12 18:53	WAT	108-10-1	1
2-Hexanone	41	ug/L	10	SW8260B	09/17/12 18:53	WAT	591-78-6	1
Carbon tetrachloride	67	ug/L	1	SW8260B	09/17/12 18:53	WAT	56-23-5	1
Benzene	51	ug/L	1	SW8260B	09/17/12 18:53	WAT	71-43-2	1
1,2-Dichloroethane	64	ug/L	1	SW8260B	09/17/12 18:53	WAT	107-06-2	1
Trichloroethene	55	ug/L	1	SW8260B	09/17/12 18:53	WAT	79-01-6	1
1,2-Dichloropropane	50	ug/L	1	SW8260B	09/17/12 18:53	WAT	78-87-5	1
Bromodichloromethane	62	ug/L	1	SW8260B	09/17/12 18:53	WAT	75-27-4	1
Methyl cyclohexane	54	ug/L	1	SW8260B	09/17/12 18:53	WAT	108-87-2	1
cis-1,3-Dichloropropene	54	ug/L	1	SW8260B	09/17/12 18:53	WAT	10061-01-5	1
Toluene	52	ug/L	1	SW8260B	09/17/12 18:53	WAT	108-88-3	1
trans-1,3-Dichloropropene	56	ug/L	1	SW8260B	09/17/12 18:53	WAT	10061-02-6	1
1,1,2-Trichloroethane	53	ug/L	1	SW8260B	09/17/12 18:53	WAT	79-00-5	1
Tetrachloroethene	50	ug/L	1	SW8260B	09/17/12 18:53	WAT	127-18-4	1
Dibromochloromethane	51	ug/L	1	SW8260B	09/17/12 18:53	WAT	124-48-1	1
Chlorobenzene	50	ug/L	1	SW8260B	09/17/12 18:53	WAT	108-90-7	1
1,1,2,2-Tetrachloroethane	49	ug/L	1	SW8260B	09/17/12 18:53	WAT	79-34-5	1
Ethylbenzene	51	ug/L	1	SW8260B	09/17/12 18:53	WAT	100-41-4	1
p,m-Xylene	96	ug/L	2	SW8260B	09/17/12 18:53	WAT		1

1-Spiked at 50ug/l



Analytical Laboratory Report

Lab Sample ID: S53909.03 (continued)

Sample Tag: VAP-P2W-QD70_9-11 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	52	ug/L	1	SW8260B	09/17/12 18:53	WAT	95-47-6	1
Styrene	36	ug/L	1	SW8260B	09/17/12 18:53	WAT	100-42-5	1
Isopropylbenzene	52	ug/L	1	SW8260B	09/17/12 18:53	WAT	98-82-8	1
Bromoform	48	ug/L	1	SW8260B	09/17/12 18:53	WAT	75-25-2	1
1,3-Dichlorobenzene	50	ug/L	1	SW8260B	09/17/12 18:53	WAT	541-73-1	1
1,4-Dichlorobenzene	51	ug/L	1	SW8260B	09/17/12 18:53	WAT	106-46-7	1
1,2-Dichlorobenzene	50	ug/L	1	SW8260B	09/17/12 18:53	WAT	95-50-1	1
1,2,4-Trichlorobenzene	52	ug/L	1	SW8260B	09/17/12 18:53	WAT	120-82-1	1
1,2-Dibromoethane	53	ug/L	1	SW8260B	09/17/12 18:53	WAT	106-93-4	1
1,2-Dibromo-3-chloropropane	51	ug/L	1	SW8260B	09/17/12 18:53	WAT	96-12-8	1

1-Spiked at 50ug/l



Analytical Laboratory Report

Lab Sample ID: S53909.04

Sample Tag: VAP-P6S-SY103_1-2

Collected Date/Time: 09/14/2012 14:30

Matrix: Soil

COC Reference: 68732

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.3	IR
1	4oz Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/18/12 12:00	CCM		
Mercury Digestion	Completed			SW7471A	09/20/12 12:00	JRH		
Metal Digestion	Completed			3050B	09/20/12 01:00	SLR		

Inorganics

Total Solids	82	%	1	Std M 2540 B	09/17/12 12:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.24	SW6020	09/20/12 15:19	SLS	7440-36-0	
Arsenic	1.70	mg/kg	0.02	SW6020	09/20/12 15:19	SLS	7440-38-2	
Barium	71.2	mg/kg	1.2	SW6020	09/20/12 15:19	SLS	7440-39-3	
Boron	Not detected	mg/kg	4.9	SW6020	09/20/12 15:19	SLS	7440-42-8	
Cadmium	0.31	mg/kg	0.12	SW6020	09/20/12 15:19	SLS	7440-43-9	
Chromium	4.49	mg/kg	0.24	SW6020	09/20/12 15:19	SLS	7440-47-3	
Cobalt	3.79	mg/kg	0.24	SW6020	09/20/12 15:19	SLS	7440-48-4	
Copper	8.01	mg/kg	0.24	SW6020	09/20/12 15:19	SLS	7440-50-8	
Lead	27.8	mg/kg	0.24	SW6020	09/20/12 15:19	SLS	7439-92-1	
Manganese	248	mg/kg	0.24	SW6020	09/21/12 11:57	SLS	7439-96-5	
Mercury	0.0548	mg/kg	0.0061	SW7471A	09/20/12 16:27	JRT	7439-97-6	
Nickel	3.38	mg/kg	0.24	SW6020	09/20/12 15:19	SLS	7440-02-0	
Selenium	0.19	mg/kg	0.12	SW6020	09/20/12 15:19	SLS	7782-49-2	
Silver	0.06	mg/kg	0.02	SW6020	09/21/12 13:43	SLS	7440-22-4	
Vanadium	10.6	mg/kg	0.24	SW6020	09/20/12 15:19	SLS	7440-62-2	
Zinc	12.2	mg/kg	1.2	SW6020	09/20/12 15:19	SLS	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	208-96-8	
Acetophenone	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	98-86-2	
Anthracene	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	SW8270C	09/20/12 18:18	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	85-68-7	



Analytical Laboratory Report

Lab Sample ID: S53909.04 (continued)

Sample Tag: VAP-P6S-SY103_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Chloronaphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	105-60-2	
Carbazole	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	108-60-1	
Chrysene	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	SW8270C	09/20/12 18:18	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	SW8270C	09/20/12 18:18	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	SW8270C	09/20/12 18:18	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	206-44-0	
Fluorene	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	SW8270C	09/20/12 18:18	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	86-30-6	
Naphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	SW8270C	09/20/12 18:18	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	85-01-8	
Phenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	108-95-2	
Pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	95-95-4	



Analytical Laboratory Report

Lab Sample ID: S53909.04 (continued)

Sample Tag: VAP-P6S-SY103_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,6-Trichlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:18	PL	88-06-2	
Organics - Volatiles								
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	76-13-1	
Acetone	Not detected	ug/kg	740	5035/8260B	09/18/12 05:52	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	740	5035/8260B	09/18/12 05:52	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	740	5035/8260B	09/18/12 05:52	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	740	5035/8260B	09/18/12 05:52	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	740	5035/8260B	09/18/12 05:52	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/18/12 05:52	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	541-73-1	



Analytical Laboratory Report

Lab Sample ID: S53909.04 (continued)

Sample Tag: VAP-P6S-SY103_1-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/18/12 05:52	WAT	120-82-1	



Analytical Laboratory Report

Report ID: S53924.01(01)
Generated on 09/25/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S53924.01-S53924.27
Project: Lansing Plant #2 Project# B0064479.2012.00105
Collected Date: 09/17/2012
Submitted Date/Time: 09/18/2012 11:25
Sampled by: Alex Villhauer
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)
Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (27 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S53924.01	SB-A5.3-OX180_1'-5'	Groundwater	09/17/2012 09:20
S53924.02	SB-A5.3-OX180_1'-5' MS	Groundwater	09/17/2012 09:20
S53924.03	SB-A5.3-OX180_1'-5' MSD	Groundwater	09/17/2012 09:20
S53924.04	Trip Blank	Methanol	09/17/2012 08:00
S53924.05	SB-A5.3-OX180_7'-8'	Soil	09/17/2012 10:05
S53924.06	SB-A5.3-OX180_17'-18'	Soil	09/17/2012 10:40
S53924.07	SB-A5.3-PB172_1'-2'	Soil	09/17/2012 11:12
S53924.08	SB-A5.3-DUP18	Soil	09/17/2012 00:01
S53924.09	SB-A5.3-PB172_11'-15'	Groundwater	09/17/2012 11:45
S53924.10	SB-A5.3-PB172_18'-19'	Soil	09/17/2012 12:00
S53924.11	SB-A5.3-PB172_18'-19' MS	Soil	09/17/2012 12:00
S53924.12	SB-A5.3-PB172_18'-19' MSD	Soil	09/17/2012 12:00
S53924.13	SB-A5.3-PF159_3'-7'	Groundwater	09/17/2012 14:00
S53924.14	SB-A5.3-PF159_14'-15'	Soil	09/17/2012 14:19
S53924.15	SB-A5.3-PF159_19'-20'	Soil	09/17/2012 14:58
S53924.16	SB-A5.3-DUP19	Soil	09/17/2012 00:01
S53924.17	SB-A5.3-PF159_10'-14'	Groundwater	09/17/2012 14:35
S53924.18	SB-A5.3-PF159_24'-25'	Soil	09/17/2012 15:05
S53924.19	SB-A5.3-PF159_29'-30'	Soil	09/17/2012 15:10
S53924.20	SB-A1-RJ78_10'-14'	Groundwater	09/17/2012 16:15
S53924.21	SB-A1-RM55_1'-2'	Soil	09/17/2012 17:10
S53924.22	SB-A1-DUP20	Soil	09/17/2012 00:01
S53924.23	SB-A1-RM55_8'-9'	Soil	09/17/2012 17:25
S53924.24	SB-A1-RM55_19'-20'	Soil	09/17/2012 17:40
S53924.25	SB-A1-RJ79_3'-4'	Soil	09/17/2012 18:16
S53924.26	SB-A1-RJ79_9'-10'	Soil	09/17/2012 18:24
S53924.27	SB-A1-RJ79_16'-17'	Soil	09/17/2012 18:34



Analytical Laboratory Report

Lab Sample ID: S53924.01
Sample Tag: SB-A5.3-OX180_1'-5'
Collected Date/Time: 09/17/2012 09:20
Matrix: Groundwater
COC Reference: 67978

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR
2	1L Amber	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction Completed 3510C 09/19/12 21:10 EMR

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	SW8270C	09/21/12 15:53	PL	91-94-1
Hexachlorobenzene	Not detected	ug/L	0.05	SW8270C	09/21/12 15:53	PL	118-74-1

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	98-86-2	
Anthracene	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	120-12-7	
Atrazine	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	SW8270C	09/21/12 18:23	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	7005-72-3	
Caprolactam	6	ug/L	1	SW8270C	09/21/12 18:23	PL	105-60-2	B
Carbazole	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	132-64-9	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S53924.01 (continued)

Sample Tag: SB-A5.3-OX180_1'-5'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Diethyl phthalate	Not detected	ug/L	2	SW8270C	09/21/12 18:23	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	SW8270C	09/21/12 18:23	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	SW8270C	09/21/12 18:23	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	85-01-8	
Phenol	1	ug/L	1	SW8270C	09/21/12 18:23	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	09/21/12 18:23	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	09/18/12 16:12	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	76-13-1	S
Acetone	Not detected	ug/L	10	SW8260B	09/18/12 17:26	WAT	67-64-1	S
Carbon disulfide	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	75-15-0	S
Methyl Acetate	Not detected	ug/L	10	SW8260B	09/18/12 17:26	WAT	79-20-9	S
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	1634-04-4	S
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	09/18/12 17:26	WAT	78-93-3	S
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	75-71-8	S
Chloromethane	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	74-87-3	S
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	75-01-4	S
Bromomethane	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	74-83-9	S
Chloroethane	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	75-00-3	S
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	75-69-4	S
1,1-Dichloroethene	6	ug/L	1	SW8260B	09/18/12 17:26	WAT	75-35-4	S
Methylene chloride	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	75-09-2	S

S-Surrogate recovery outside of control limits



Analytical Laboratory Report

Lab Sample ID: S53924.01 (continued)

Sample Tag: SB-A5.3-OX180_1'-5'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	156-60-5	S
1,1-Dichloroethane	103	ug/L	1	SW8260B	09/18/12 17:26	WAT	75-34-3	S
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	156-59-2	S
Chloroform	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	67-66-3	S
1,1,1-Trichloroethane	147	ug/L	1	SW8260B	09/18/12 17:26	WAT	71-55-6	S
Cyclohexane	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	110-82-7	S
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	09/18/12 17:26	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	09/18/12 17:26	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/18/12 17:26	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	09/18/12 17:26	WAT	96-12-8	
TCL Volatile Organics 8260 (Replicate 01)								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	09/19/12 15:38	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	09/19/12 15:38	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	09/19/12 15:38	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	75-00-3	

S-Surrogate recovery outside of control limits



Analytical Laboratory Report

Lab Sample ID: S53924.01 (continued)

Sample Tag: SB-A5.3-OX180_1'-5'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (Replicate 01) (continued)								
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	75-69-4	
1,1-Dichloroethene	5	ug/L	1	SW8260B	09/19/12 15:38	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	156-60-5	
1,1-Dichloroethane	95	ug/L	1	SW8260B	09/19/12 15:38	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	67-66-3	
1,1,1-Trichloroethane	133	ug/L	1	SW8260B	09/19/12 15:38	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	09/19/12 15:38	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	09/19/12 15:38	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/19/12 15:38	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	09/19/12 15:38	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S53924.02
Sample Tag: SB-A5.3-OX180_1'-5' MS
Collected Date/Time: 09/17/2012 09:20
Matrix: Groundwater
COC Reference: 67978

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR
2	1L Amber	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction Completed 3510C 09/19/12 21:10 EMR

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	1	SW8270C	09/21/12 18:57	PL	91-94-1	1
Hexachlorobenzene	48	ug/L	1	SW8270C	09/21/12 18:57	PL	118-74-1	1

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	45	ug/L	1	SW8270C	09/21/12 18:57	PL	83-32-9	1
Acenaphthylene	45	ug/L	1	SW8270C	09/21/12 18:57	PL	208-96-8	1
Acetophenone	41	ug/L	1	SW8270C	09/21/12 18:57	PL	98-86-2	1
Anthracene	43	ug/L	1	SW8270C	09/21/12 18:57	PL	120-12-7	1
Atrazine	32	ug/L	1	SW8270C	09/21/12 18:57	PL	1912-24-9	1
1,1'-Biphenyl	41	ug/L	1	SW8270C	09/21/12 18:57	PL	92-52-4	1
4-Bromophenyl phenyl ether	51	ug/L	1	SW8270C	09/21/12 18:57	PL	101-55-3	1
di-n-Butyl phthalate	47	ug/L	1	SW8270C	09/21/12 18:57	PL	84-74-2	1B
Benzaldehyde	12	ug/L	1	SW8270C	09/21/12 18:57	PL	100-52-7	1
Benzo(a)anthracene	49	ug/L	1	SW8270C	09/21/12 18:57	PL	56-55-3	1
Benzo(a)pyrene	48	ug/L	1	SW8270C	09/21/12 18:57	PL	50-32-8	1
Benzo(b)fluoranthene	54	ug/L	1	SW8270C	09/21/12 18:57	PL	205-99-2	1
Benzo(ghi)perylene	41	ug/L	1	SW8270C	09/21/12 18:57	PL	191-24-2	1
Benzo(k)fluoranthene	56	ug/L	1	SW8270C	09/21/12 18:57	PL	207-08-9	1
Butyl benzyl phthalate	53	ug/L	1	SW8270C	09/21/12 18:57	PL	85-68-7	1
2-Chloronaphthalene	49	ug/L	1	SW8270C	09/21/12 18:57	PL	91-58-7	1
2-Chlorophenol	43	ug/L	1	SW8270C	09/21/12 18:57	PL	95-57-8	1
4-Chloro-3-methylphenol	50	ug/L	1	SW8270C	09/21/12 18:57	PL	59-50-7	1
4-Chloroaniline	23	ug/L	2	SW8270C	09/21/12 18:57	PL	106-47-8	1
4-Chlorophenyl phenyl ether	51	ug/L	1	SW8270C	09/21/12 18:57	PL	7005-72-3	1
Caprolactam	12	ug/L	1	SW8270C	09/21/12 18:57	PL	105-60-2	1B
Carbazole	51	ug/L	1	SW8270C	09/21/12 18:57	PL	86-74-8	1
bis(2-Chloroethoxy)methane	44	ug/L	1	SW8270C	09/21/12 18:57	PL	111-91-1	1
bis(2-Chloroethyl)ether	40	ug/L	1	SW8270C	09/21/12 18:57	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	37	ug/L	1	SW8270C	09/21/12 18:57	PL	108-60-1	1
Chrysene	51	ug/L	1	SW8270C	09/21/12 18:57	PL	218-01-9	1
2,4-Dichlorophenol	54	ug/L	1	SW8270C	09/21/12 18:57	PL	120-83-2	1
2,4-Dimethylphenol	43	ug/L	1	SW8270C	09/21/12 18:57	PL	105-67-9	1
2,4-Dinitrophenol	59	ug/L	1	SW8270C	09/21/12 18:57	PL	51-28-5	1
2,4-Dinitrotoluene	56	ug/L	1	SW8270C	09/21/12 18:57	PL	121-14-2	1
2,6-Dinitrotoluene	57	ug/L	1	SW8270C	09/21/12 18:57	PL	606-20-2	1
4,6-Dinitro-2-methylphenol	58	ug/L	1	SW8270C	09/21/12 18:57	PL	534-52-1	1
Dibenzo(ah)anthracene	38	ug/L	1	SW8270C	09/21/12 18:57	PL	53-70-3	1

1-Sample spiked at 0.050 mg/l, 3-,4-methylphenol at 0.100
B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S53924.02 (continued)

Sample Tag: SB-A5.3-OX180_1'-5' MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Dibenzofuran	43	ug/L	1	SW8270C	09/21/12 18:57	PL	132-64-9	1
Diethyl phthalate	54	ug/L	2	SW8270C	09/21/12 18:57	PL	84-66-2	1
Dimethyl phthalate	51	ug/L	2	SW8270C	09/21/12 18:57	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	47	ug/L	2	SW8270C	09/21/12 18:57	PL	117-81-7	1B
Fluoranthene	45	ug/L	1	SW8270C	09/21/12 18:57	PL	206-44-0	1
Fluorene	47	ug/L	1	SW8270C	09/21/12 18:57	PL	86-73-7	1
Hexachlorobutadiene	43	ug/L	1	SW8270C	09/21/12 18:57	PL	87-68-3	1
Hexachlorocyclopentadiene	35	ug/L	1	SW8270C	09/21/12 18:57	PL	77-47-4	1
Hexachloroethane	33	ug/L	1	SW8270C	09/21/12 18:57	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	43	ug/L	1	SW8270C	09/21/12 18:57	PL	193-39-5	1
Isophorone	45	ug/L	1	SW8270C	09/21/12 18:57	PL	78-59-1	1
2-Methylnaphthalene	43	ug/L	1	SW8270C	09/21/12 18:57	PL	91-57-6	1
2-Methylphenol	42	ug/L	1	SW8270C	09/21/12 18:57	PL	95-48-7	1
3-, 4-Methylphenol	89	ug/L	1	SW8270C	09/21/12 18:57	PL	3/4-Cresol	1
2-Nitroaniline	58	ug/L	1	SW8270C	09/21/12 18:57	PL	88-74-4	1
2-Nitrophenol	46	ug/L	1	SW8270C	09/21/12 18:57	PL	88-75-5	1
3-Nitroaniline	38	ug/L	1	SW8270C	09/21/12 18:57	PL	99-09-2	1
4-Nitroaniline	62	ug/L	1	SW8270C	09/21/12 18:57	PL	100-01-6	1
4-Nitrophenol	48	ug/L	1	SW8270C	09/21/12 18:57	PL	100-02-7	1
N-Nitrosodi-n-propylamine	41	ug/L	1	SW8270C	09/21/12 18:57	PL	621-64-7	1
N-Nitrosodiphenylamine	43	ug/L	1	SW8270C	09/21/12 18:57	PL	86-30-6	1
Naphthalene	41	ug/L	1	SW8270C	09/21/12 18:57	PL	91-20-3	1
Nitrobenzene	52	ug/L	1	SW8270C	09/21/12 18:57	PL	98-95-3	1
di-n-Octyl phthalate	60	ug/L	1	SW8270C	09/21/12 18:57	PL	117-84-0	1
Pentachlorophenol	55	ug/L	1	SW8270C	09/21/12 18:57	PL	87-86-5	1
Phenanthrene	47	ug/L	1	SW8270C	09/21/12 18:57	PL	85-01-8	1
Phenol	30	ug/L	1	SW8270C	09/21/12 18:57	PL	108-95-2	1
Pyrene	51	ug/L	1	SW8270C	09/21/12 18:57	PL	129-00-0	1
2,4,5-Trichlorophenol	56	ug/L	1	SW8270C	09/21/12 18:57	PL	95-95-4	1
2,4,6-Trichlorophenol	55	ug/L	1	SW8270C	09/21/12 18:57	PL	88-06-2	1
Organics - Volatiles								
1,4-Dioxane	49	ug/L	5	SW8260B - SIM	09/18/12 17:53	WAT	123-91-1	5
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	58	ug/L	1	SW8260B	09/18/12 21:07	WAT	76-13-1	S5
Acetone	36	ug/L	10	SW8260B	09/18/12 21:07	WAT	67-64-1	S5
Carbon disulfide	39	ug/L	1	SW8260B	09/18/12 21:07	WAT	75-15-0	S5
Methyl Acetate	55	ug/L	10	SW8260B	09/18/12 21:07	WAT	79-20-9	S5
tert-Methyl butyl ether (MTBE)	62	ug/L	1	SW8260B	09/18/12 21:07	WAT	1634-04-4	S5
2-Butanone (MEK)	40	ug/L	10	SW8260B	09/18/12 21:07	WAT	78-93-3	S5
Dichlorodifluoromethane	54	ug/L	1	SW8260B	09/18/12 21:07	WAT	75-71-8	S5
Chloromethane	53	ug/L	1	SW8260B	09/18/12 21:07	WAT	74-87-3	S5
Vinyl chloride	38	ug/L	1	SW8260B	09/18/12 21:07	WAT	75-01-4	S5
Bromomethane	58	ug/L	1	SW8260B	09/18/12 21:07	WAT	74-83-9	S5

1-Sample spiked at 0.050 mg/l, 3-,4-methylphenol at 0.100

B-Compound also found in associated method blank

5-Spiked at 50ug/l

S-Surrogate recovery outside of control limits



Analytical Laboratory Report

Lab Sample ID: S53924.02 (continued)

Sample Tag: SB-A5.3-OX180_1'-5' MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Chloroethane	54	ug/L	1	SW8260B	09/18/12 21:07	WAT	75-00-3	S1
Trichlorofluoromethane	50	ug/L	1	SW8260B	09/18/12 21:07	WAT	75-69-4	S1
1,1-Dichloroethene	65	ug/L	1	SW8260B	09/18/12 21:07	WAT	75-35-4	S1
Methylene chloride	54	ug/L	1	SW8260B	09/18/12 21:07	WAT	75-09-2	S1
trans-1,2-Dichloroethene	59	ug/L	1	SW8260B	09/18/12 21:07	WAT	156-60-5	S1
1,1-Dichloroethane	154	ug/L	1	SW8260B	09/18/12 21:07	WAT	75-34-3	S1
cis-1,2-Dichloroethene	56	ug/L	1	SW8260B	09/18/12 21:07	WAT	156-59-2	S1
Chloroform	66	ug/L	1	SW8260B	09/18/12 21:07	WAT	67-66-3	S1
1,1,1-Trichloroethane	211	ug/L	1	SW8260B	09/18/12 21:07	WAT	71-55-6	SE1
Cyclohexane	48	ug/L	1	SW8260B	09/18/12 21:07	WAT	110-82-7	S1
4-Methyl-2-pentanone (MIBK)	58	ug/L	10	SW8260B	09/18/12 21:07	WAT	108-10-1	1
2-Hexanone	49	ug/L	10	SW8260B	09/18/12 21:07	WAT	591-78-6	1
Carbon tetrachloride	72	ug/L	1	SW8260B	09/18/12 21:07	WAT	56-23-5	1
Benzene	52	ug/L	1	SW8260B	09/18/12 21:07	WAT	71-43-2	1
1,2-Dichloroethane	70	ug/L	1	SW8260B	09/18/12 21:07	WAT	107-06-2	1
Trichloroethene	57	ug/L	1	SW8260B	09/18/12 21:07	WAT	79-01-6	1
1,2-Dichloropropane	52	ug/L	1	SW8260B	09/18/12 21:07	WAT	78-87-5	1
Bromodichloromethane	68	ug/L	1	SW8260B	09/18/12 21:07	WAT	75-27-4	1
Methyl cyclohexane	55	ug/L	1	SW8260B	09/18/12 21:07	WAT	108-87-2	1
cis-1,3-Dichloropropene	54	ug/L	1	SW8260B	09/18/12 21:07	WAT	10061-01-5	1
Toluene	51	ug/L	1	SW8260B	09/18/12 21:07	WAT	108-88-3	1
trans-1,3-Dichloropropene	57	ug/L	1	SW8260B	09/18/12 21:07	WAT	10061-02-6	1
1,1,2-Trichloroethane	56	ug/L	1	SW8260B	09/18/12 21:07	WAT	79-00-5	1
Tetrachloroethene	53	ug/L	1	SW8260B	09/18/12 21:07	WAT	127-18-4	1
Dibromochloromethane	52	ug/L	1	SW8260B	09/18/12 21:07	WAT	124-48-1	1
Chlorobenzene	48	ug/L	1	SW8260B	09/18/12 21:07	WAT	108-90-7	1
1,1,2,2-Tetrachloroethane	49	ug/L	1	SW8260B	09/18/12 21:07	WAT	79-34-5	1
Ethylbenzene	48	ug/L	1	SW8260B	09/18/12 21:07	WAT	100-41-4	1
p,m-Xylene	81	ug/L	2	SW8260B	09/18/12 21:07	WAT		1
o-Xylene	45	ug/L	1	SW8260B	09/18/12 21:07	WAT	95-47-6	1
Styrene	25	ug/L	1	SW8260B	09/18/12 21:07	WAT	100-42-5	1
Isopropylbenzene	48	ug/L	1	SW8260B	09/18/12 21:07	WAT	98-82-8	1
Bromoform	51	ug/L	1	SW8260B	09/18/12 21:07	WAT	75-25-2	1
1,3-Dichlorobenzene	50	ug/L	1	SW8260B	09/18/12 21:07	WAT	541-73-1	1
1,4-Dichlorobenzene	52	ug/L	1	SW8260B	09/18/12 21:07	WAT	106-46-7	1
1,2-Dichlorobenzene	51	ug/L	1	SW8260B	09/18/12 21:07	WAT	95-50-1	1
1,2,4-Trichlorobenzene	52	ug/L	1	SW8260B	09/18/12 21:07	WAT	120-82-1	1
1,2-Dibromoethane	52	ug/L	1	SW8260B	09/18/12 21:07	WAT	106-93-4	1
1,2-Dibromo-3-chloropropane	56	ug/L	1	SW8260B	09/18/12 21:07	WAT	96-12-8	1

S-Surrogate recovery outside of control limits 1-Spiked at 50ug/l

E-Concentration exceeds calibration range



Analytical Laboratory Report

Lab Sample ID: S53924.03
Sample Tag: SB-A5.3-OX180_1'-5' MSD
Collected Date/Time: 09/17/2012 09:20
Matrix: Groundwater
COC Reference: 67978

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR
2	1L Amber	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction Completed 3510C 09/19/12 21:10 EMR

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	1	SW8270C	09/21/12 19:32	PL	91-94-1	1
Hexachlorobenzene	45	ug/L	1	SW8270C	09/21/12 19:32	PL	118-74-1	1

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	43	ug/L	1	SW8270C	09/21/12 19:32	PL	83-32-9	1
Acenaphthylene	43	ug/L	1	SW8270C	09/21/12 19:32	PL	208-96-8	1
Acetophenone	39	ug/L	1	SW8270C	09/21/12 19:32	PL	98-86-2	1
Anthracene	40	ug/L	1	SW8270C	09/21/12 19:32	PL	120-12-7	1
Atrazine	30	ug/L	1	SW8270C	09/21/12 19:32	PL	1912-24-9	1
1,1'-Biphenyl	39	ug/L	1	SW8270C	09/21/12 19:32	PL	92-52-4	1
4-Bromophenyl phenyl ether	49	ug/L	1	SW8270C	09/21/12 19:32	PL	101-55-3	1
di-n-Butyl phthalate	44	ug/L	1	SW8270C	09/21/12 19:32	PL	84-74-2	1B
Benzaldehyde	11	ug/L	1	SW8270C	09/21/12 19:32	PL	100-52-7	1
Benzo(a)anthracene	47	ug/L	1	SW8270C	09/21/12 19:32	PL	56-55-3	1
Benzo(a)pyrene	46	ug/L	1	SW8270C	09/21/12 19:32	PL	50-32-8	1
Benzo(b)fluoranthene	52	ug/L	1	SW8270C	09/21/12 19:32	PL	205-99-2	1
Benzo(ghi)perylene	37	ug/L	1	SW8270C	09/21/12 19:32	PL	191-24-2	1
Benzo(k)fluoranthene	54	ug/L	1	SW8270C	09/21/12 19:32	PL	207-08-9	1
Butyl benzyl phthalate	50	ug/L	1	SW8270C	09/21/12 19:32	PL	85-68-7	1
2-Chloronaphthalene	47	ug/L	1	SW8270C	09/21/12 19:32	PL	91-58-7	1
2-Chlorophenol	41	ug/L	1	SW8270C	09/21/12 19:32	PL	95-57-8	1
4-Chloro-3-methylphenol	47	ug/L	1	SW8270C	09/21/12 19:32	PL	59-50-7	1
4-Chloroaniline	23	ug/L	2	SW8270C	09/21/12 19:32	PL	106-47-8	1
4-Chlorophenyl phenyl ether	48	ug/L	1	SW8270C	09/21/12 19:32	PL	7005-72-3	1
Caprolactam	14	ug/L	1	SW8270C	09/21/12 19:32	PL	105-60-2	1B
Carbazole	48	ug/L	1	SW8270C	09/21/12 19:32	PL	86-74-8	1
bis(2-Chloroethoxy)methane	42	ug/L	1	SW8270C	09/21/12 19:32	PL	111-91-1	1
bis(2-Chloroethyl)ether	37	ug/L	1	SW8270C	09/21/12 19:32	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	34	ug/L	1	SW8270C	09/21/12 19:32	PL	108-60-1	1
Chrysene	48	ug/L	1	SW8270C	09/21/12 19:32	PL	218-01-9	1
2,4-Dichlorophenol	51	ug/L	1	SW8270C	09/21/12 19:32	PL	120-83-2	1
2,4-Dimethylphenol	41	ug/L	1	SW8270C	09/21/12 19:32	PL	105-67-9	1
2,4-Dinitrophenol	56	ug/L	1	SW8270C	09/21/12 19:32	PL	51-28-5	1
2,4-Dinitrotoluene	53	ug/L	1	SW8270C	09/21/12 19:32	PL	121-14-2	1
2,6-Dinitrotoluene	54	ug/L	1	SW8270C	09/21/12 19:32	PL	606-20-2	1
4,6-Dinitro-2-methylphenol	55	ug/L	1	SW8270C	09/21/12 19:32	PL	534-52-1	1
Dibenzo(ah)anthracene	35	ug/L	1	SW8270C	09/21/12 19:32	PL	53-70-3	1

1-Sample spiked at 0.050 mg/l, 3-,4-methylphenol at 0.100
B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S53924.03 (continued)
Sample Tag: SB-A5.3-OX180_1'-5' MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Dibenzofuran	41	ug/L	1	SW8270C	09/21/12 19:32	PL	132-64-9	1
Diethyl phthalate	51	ug/L	2	SW8270C	09/21/12 19:32	PL	84-66-2	1
Dimethyl phthalate	47	ug/L	2	SW8270C	09/21/12 19:32	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	46	ug/L	2	SW8270C	09/21/12 19:32	PL	117-81-7	1B
Fluoranthene	42	ug/L	1	SW8270C	09/21/12 19:32	PL	206-44-0	1
Fluorene	45	ug/L	1	SW8270C	09/21/12 19:32	PL	86-73-7	1
Hexachlorobutadiene	40	ug/L	1	SW8270C	09/21/12 19:32	PL	87-68-3	1
Hexachlorocyclopentadiene	32	ug/L	1	SW8270C	09/21/12 19:32	PL	77-47-4	1
Hexachloroethane	31	ug/L	1	SW8270C	09/21/12 19:32	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	40	ug/L	1	SW8270C	09/21/12 19:32	PL	193-39-5	1
Isophorone	43	ug/L	1	SW8270C	09/21/12 19:32	PL	78-59-1	1
2-Methylnaphthalene	40	ug/L	1	SW8270C	09/21/12 19:32	PL	91-57-6	1
2-Methylphenol	39	ug/L	1	SW8270C	09/21/12 19:32	PL	95-48-7	1
3-, 4-Methylphenol	84	ug/L	1	SW8270C	09/21/12 19:32	PL	3/4-Cresol	1
2-Nitroaniline	55	ug/L	1	SW8270C	09/21/12 19:32	PL	88-74-4	1
2-Nitrophenol	43	ug/L	1	SW8270C	09/21/12 19:32	PL	88-75-5	1
3-Nitroaniline	39	ug/L	1	SW8270C	09/21/12 19:32	PL	99-09-2	1
4-Nitroaniline	58	ug/L	1	SW8270C	09/21/12 19:32	PL	100-01-6	1
4-Nitrophenol	46	ug/L	1	SW8270C	09/21/12 19:32	PL	100-02-7	1
N-Nitrosodi-n-propylamine	38	ug/L	1	SW8270C	09/21/12 19:32	PL	621-64-7	1
N-Nitrosodiphenylamine	41	ug/L	1	SW8270C	09/21/12 19:32	PL	86-30-6	1
Naphthalene	38	ug/L	1	SW8270C	09/21/12 19:32	PL	91-20-3	1
Nitrobenzene	48	ug/L	1	SW8270C	09/21/12 19:32	PL	98-95-3	1
di-n-Octyl phthalate	60	ug/L	1	SW8270C	09/21/12 19:32	PL	117-84-0	1
Pentachlorophenol	51	ug/L	1	SW8270C	09/21/12 19:32	PL	87-86-5	1
Phenanthrene	44	ug/L	1	SW8270C	09/21/12 19:32	PL	85-01-8	1
Phenol	31	ug/L	1	SW8270C	09/21/12 19:32	PL	108-95-2	1
Pyrene	49	ug/L	1	SW8270C	09/21/12 19:32	PL	129-00-0	1
2,4,5-Trichlorophenol	53	ug/L	1	SW8270C	09/21/12 19:32	PL	95-95-4	1
2,4,6-Trichlorophenol	52	ug/L	1	SW8270C	09/21/12 19:32	PL	88-06-2	1
Organics - Volatiles								
1,4-Dioxane	48	ug/L	5	SW8260B - SIM	09/18/12 18:13	WAT	123-91-1	5
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	59	ug/L	1	SW8260B	09/18/12 21:27	WAT	76-13-1	S5
Acetone	34	ug/L	10	SW8260B	09/18/12 21:27	WAT	67-64-1	S5
Carbon disulfide	43	ug/L	1	SW8260B	09/18/12 21:27	WAT	75-15-0	S5
Methyl Acetate	55	ug/L	10	SW8260B	09/18/12 21:27	WAT	79-20-9	S5
tert-Methyl butyl ether (MTBE)	61	ug/L	1	SW8260B	09/18/12 21:27	WAT	1634-04-4	S5
2-Butanone (MEK)	40	ug/L	10	SW8260B	09/18/12 21:27	WAT	78-93-3	S5
Dichlorodifluoromethane	55	ug/L	1	SW8260B	09/18/12 21:27	WAT	75-71-8	S5
Chloromethane	53	ug/L	1	SW8260B	09/18/12 21:27	WAT	74-87-3	S5
Vinyl chloride	40	ug/L	1	SW8260B	09/18/12 21:27	WAT	75-01-4	S5
Bromomethane	61	ug/L	1	SW8260B	09/18/12 21:27	WAT	74-83-9	S5

1-Sample spiked at 0.050 mg/l, 3-,4-methylphenol at 0.100
B-Compound also found in associated method blank
5-Spiked at 50ug/l
S-Surrogate recovery outside of control limits



Analytical Laboratory Report

Lab Sample ID: S53924.03 (continued)
Sample Tag: SB-A5.3-OX180_1'-5' MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Chloroethane	58	ug/L	1	SW8260B	09/18/12 21:27	WAT	75-00-3	S1
Trichlorofluoromethane	74	ug/L	1	SW8260B	09/18/12 21:27	WAT	75-69-4	S1
1,1-Dichloroethene	67	ug/L	1	SW8260B	09/18/12 21:27	WAT	75-35-4	S1
Methylene chloride	52	ug/L	1	SW8260B	09/18/12 21:27	WAT	75-09-2	S1
trans-1,2-Dichloroethene	59	ug/L	1	SW8260B	09/18/12 21:27	WAT	156-60-5	S1
1,1-Dichloroethane	152	ug/L	1	SW8260B	09/18/12 21:27	WAT	75-34-3	S1
cis-1,2-Dichloroethene	56	ug/L	1	SW8260B	09/18/12 21:27	WAT	156-59-2	S1
Chloroform	65	ug/L	1	SW8260B	09/18/12 21:27	WAT	67-66-3	S1
1,1,1-Trichloroethane	206	ug/L	1	SW8260B	09/18/12 21:27	WAT	71-55-6	SE1
Cyclohexane	49	ug/L	1	SW8260B	09/18/12 21:27	WAT	110-82-7	S1
4-Methyl-2-pentanone (MIBK)	58	ug/L	10	SW8260B	09/18/12 21:27	WAT	108-10-1	1
2-Hexanone	50	ug/L	10	SW8260B	09/18/12 21:27	WAT	591-78-6	1
Carbon tetrachloride	74	ug/L	1	SW8260B	09/18/12 21:27	WAT	56-23-5	1
Benzene	53	ug/L	1	SW8260B	09/18/12 21:27	WAT	71-43-2	1
1,2-Dichloroethane	70	ug/L	1	SW8260B	09/18/12 21:27	WAT	107-06-2	1
Trichloroethene	58	ug/L	1	SW8260B	09/18/12 21:27	WAT	79-01-6	1
1,2-Dichloropropane	51	ug/L	1	SW8260B	09/18/12 21:27	WAT	78-87-5	1
Bromodichloromethane	66	ug/L	1	SW8260B	09/18/12 21:27	WAT	75-27-4	1
Methyl cyclohexane	57	ug/L	1	SW8260B	09/18/12 21:27	WAT	108-87-2	1
cis-1,3-Dichloropropene	57	ug/L	1	SW8260B	09/18/12 21:27	WAT	10061-01-5	1
Toluene	52	ug/L	1	SW8260B	09/18/12 21:27	WAT	108-88-3	1
trans-1,3-Dichloropropene	58	ug/L	1	SW8260B	09/18/12 21:27	WAT	10061-02-6	1
1,1,2-Trichloroethane	57	ug/L	1	SW8260B	09/18/12 21:27	WAT	79-00-5	1
Tetrachloroethene	54	ug/L	1	SW8260B	09/18/12 21:27	WAT	127-18-4	1
Dibromochloromethane	54	ug/L	1	SW8260B	09/18/12 21:27	WAT	124-48-1	1
Chlorobenzene	49	ug/L	1	SW8260B	09/18/12 21:27	WAT	108-90-7	1
1,1,2,2-Tetrachloroethane	49	ug/L	1	SW8260B	09/18/12 21:27	WAT	79-34-5	1
Ethylbenzene	49	ug/L	1	SW8260B	09/18/12 21:27	WAT	100-41-4	1
p,m-Xylene	82	ug/L	2	SW8260B	09/18/12 21:27	WAT		1
o-Xylene	45	ug/L	1	SW8260B	09/18/12 21:27	WAT	95-47-6	1
Styrene	24	ug/L	1	SW8260B	09/18/12 21:27	WAT	100-42-5	1
Isopropylbenzene	50	ug/L	1	SW8260B	09/18/12 21:27	WAT	98-82-8	1
Bromoform	52	ug/L	1	SW8260B	09/18/12 21:27	WAT	75-25-2	1
1,3-Dichlorobenzene	52	ug/L	1	SW8260B	09/18/12 21:27	WAT	541-73-1	1
1,4-Dichlorobenzene	52	ug/L	1	SW8260B	09/18/12 21:27	WAT	106-46-7	1
1,2-Dichlorobenzene	52	ug/L	1	SW8260B	09/18/12 21:27	WAT	95-50-1	1
1,2,4-Trichlorobenzene	55	ug/L	1	SW8260B	09/18/12 21:27	WAT	120-82-1	1
1,2-Dibromoethane	53	ug/L	1	SW8260B	09/18/12 21:27	WAT	106-93-4	1
1,2-Dibromo-3-chloropropane	56	ug/L	1	SW8260B	09/18/12 21:27	WAT	96-12-8	1

S-Surrogate recovery outside of control limits 1-Spiked at 50ug/l
E-Concentration exceeds calibration range



Analytical Laboratory Report

Lab Sample ID: S53924.04
Sample Tag: Trip Blank
Collected Date/Time: 09/17/2012 08:00
Matrix: Methanol
COC Reference: 67978

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	76-13-1	
Acetone	Not detected	ug/kg	500	5035/8260B	09/19/12 14:20	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	500	5035/8260B	09/19/12 14:20	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	500	5035/8260B	09/19/12 14:20	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	156-59-2	
Chloroform	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	500	5035/8260B	09/19/12 14:20	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	500	5035/8260B	09/19/12 14:20	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	56-23-5	
Benzene	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	10061-01-5	
Toluene	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/19/12 14:20	WAT		
o-Xylene	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	95-47-6	
Styrene	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	100-42-5	



Analytical Laboratory Report

Lab Sample ID: S53924.04 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Isopropylbenzene	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	98-82-8	
Bromoform	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	50	5035/8260B	09/19/12 14:20	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53924.05
Sample Tag: SB-A5.3-OX180_7'-8'
Collected Date/Time: 09/17/2012 10:05
Matrix: Soil
COC Reference: 67978

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/18/12 20:43	EMR		
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Inorganics

Total Solids	88	%	1	Std M 2540 B	09/19/12 12:00	WAR		
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Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	208-96-8	
Acetophenone	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	98-86-2	
Anthracene	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	SW8270C	09/20/12 18:52	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	105-60-2	
Carbazole	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	108-60-1	
Chrysene	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	SW8270C	09/20/12 18:52	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	SW8270C	09/20/12 18:52	PL	84-66-2	



Analytical Laboratory Report

Lab Sample ID: S53924.05 (continued)

Sample Tag: SB-A5.3-OX180_7'-8'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Dimethyl phthalate	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	SW8270C	09/20/12 18:52	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	206-44-0	
Fluorene	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	SW8270C	09/20/12 18:52	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	86-30-6	
Naphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	SW8270C	09/20/12 18:52	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	85-01-8	
Phenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	108-95-2	
Pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 18:52	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S53924.06
Sample Tag: SB-A5.3-OX180_17'-18'
Collected Date/Time: 09/17/2012 10:40
Matrix: Soil
COC Reference: 67978

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/18/12 20:43	EMR		
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Inorganics

Total Solids	91	%	1	Std M 2540 B	09/19/12 12:00	WAR		
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Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	208-96-8	
Acetophenone	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	98-86-2	
Anthracene	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	SW8270C	09/20/12 19:26	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	105-60-2	
Carbazole	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	108-60-1	
Chrysene	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	SW8270C	09/20/12 19:26	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	SW8270C	09/20/12 19:26	PL	84-66-2	



Analytical Laboratory Report

Lab Sample ID: S53924.06 (continued)

Sample Tag: SB-A5.3-OX180_17'-18'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Dimethyl phthalate	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	SW8270C	09/20/12 19:26	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	206-44-0	
Fluorene	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	SW8270C	09/20/12 19:26	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	86-30-6	
Naphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	SW8270C	09/20/12 19:26	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	85-01-8	
Phenol	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	108-95-2	
Pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 19:26	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S53924.07
Sample Tag: SB-A5.3-PB172_1'-2'
Collected Date/Time: 09/17/2012 11:12
Matrix: Soil
COC Reference: 67978

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/18/12 20:43	EMR		
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Inorganics

Total Solids	87	%	1	Std M 2540 B	09/19/12 12:00	WAR		
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Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	208-96-8	
Acetophenone	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	98-86-2	
Anthracene	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	SW8270C	09/20/12 20:00	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	105-60-2	
Carbazole	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	108-60-1	
Chrysene	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	SW8270C	09/20/12 20:00	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	SW8270C	09/20/12 20:00	PL	84-66-2	



Analytical Laboratory Report

Lab Sample ID: S53924.07 (continued)

Sample Tag: SB-A5.3-PB172_1'-2'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Dimethyl phthalate	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	SW8270C	09/20/12 20:00	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	206-44-0	
Fluorene	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	SW8270C	09/20/12 20:00	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	86-30-6	
Naphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	SW8270C	09/20/12 20:00	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	85-01-8	
Phenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	108-95-2	
Pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:00	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S53924.08
Sample Tag: SB-A5.3-DUP18
Collected Date/Time: 09/17/2012 00:01
Matrix: Soil
COC Reference: 67978

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/18/12 20:43	EMR		
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Inorganics

Total Solids	85	%	1	Std M 2540 B	09/19/12 12:00	WAR		
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Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	208-96-8	
Acetophenone	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	98-86-2	
Anthracene	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	SW8270C	09/20/12 20:34	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	105-60-2	
Carbazole	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	108-60-1	
Chrysene	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	SW8270C	09/20/12 20:34	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	SW8270C	09/20/12 20:34	PL	84-66-2	



Analytical Laboratory Report

Lab Sample ID: S53924.08 (continued)

Sample Tag: SB-A5.3-DUP18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Dimethyl phthalate	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	SW8270C	09/20/12 20:34	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	206-44-0	
Fluorene	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	SW8270C	09/20/12 20:34	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	86-30-6	
Naphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	SW8270C	09/20/12 20:34	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	85-01-8	
Phenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	108-95-2	
Pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 20:34	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S53924.09
Sample Tag: SB-A5.3-PB172_11'-15'
Collected Date/Time: 09/17/2012 11:45
Matrix: Groundwater
COC Reference: 67978

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR
2	1L Amber	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction Completed 3510C 09/19/12 21:10 EMR

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	SW8270C	09/21/12 16:22	PL	91-94-1
Hexachlorobenzene	Not detected	ug/L	0.05	SW8270C	09/21/12 16:22	PL	118-74-1

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	83-32-9	B
Acenaphthylene	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	98-86-2	
Anthracene	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	120-12-7	
Atrazine	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	SW8270C	09/21/12 20:06	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	7005-72-3	
Caprolactam	8	ug/L	1	SW8270C	09/21/12 20:06	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	132-64-9	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S53924.09 (continued)

Sample Tag: SB-A5.3-PB172_11'-15'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Diethyl phthalate	Not detected	ug/L	2	SW8270C	09/21/12 20:06	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	SW8270C	09/21/12 20:06	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	SW8270C	09/21/12 20:06	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	85-01-8	
Phenol	4	ug/L	1	SW8270C	09/21/12 20:06	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	09/21/12 20:06	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	09/18/12 16:33	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	09/20/12 16:39	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	09/20/12 16:39	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	09/20/12 16:39	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	156-60-5	



Analytical Laboratory Report

Lab Sample ID: S53924.09 (continued)

Sample Tag: SB-A5.3-PB172_11'-15'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	09/20/12 16:39	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	09/20/12 16:39	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/20/12 16:39	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	09/20/12 16:39	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S53924.10
Sample Tag: SB-A5.3-PB172_18'-19'
Collected Date/Time: 09/17/2012 12:00
Matrix: Soil
COC Reference: 67978

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/18/12 20:43	EMR		
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Inorganics

Total Solids	86	%	1	Std M 2540 B	09/19/12 12:00	WAR		
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Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	208-96-8	
Acetophenone	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	98-86-2	
Anthracene	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	SW8270C	09/20/12 21:08	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	105-60-2	
Carbazole	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	108-60-1	
Chrysene	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	SW8270C	09/20/12 21:08	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	SW8270C	09/20/12 21:08	PL	84-66-2	



Analytical Laboratory Report

Lab Sample ID: S53924.10 (continued)

Sample Tag: SB-A5.3-PB172_18'-19'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Dimethyl phthalate	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	SW8270C	09/20/12 21:08	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	206-44-0	
Fluorene	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	SW8270C	09/20/12 21:08	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	86-30-6	
Naphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	SW8270C	09/20/12 21:08	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	85-01-8	
Phenol	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	108-95-2	
Pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	100	SW8270C	09/20/12 21:08	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S53924.11
Sample Tag: SB-A5.3-PB172_18'-19' MS
Collected Date/Time: 09/17/2012 12:00
Matrix: Soil
COC Reference: 67978

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/18/12 20:43	EMR		
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Inorganics

Total Solids	86	%	1	Std M 2540 B	09/19/12 12:00	WAR		
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Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	1,300	ug/kg	100	SW8270C	09/20/12 21:42	PL	83-32-9	1
Acenaphthylene	1,400	ug/kg	100	SW8270C	09/20/12 21:42	PL	208-96-8	1
Acetophenone	1,300	ug/kg	100	SW8270C	09/20/12 21:42	PL	98-86-2	1
Anthracene	1,200	ug/kg	100	SW8270C	09/20/12 21:42	PL	120-12-7	1
Atrazine	1,200	ug/kg	100	SW8270C	09/20/12 21:42	PL	1912-24-9	1
1,1'-Biphenyl	1,000	ug/kg	100	SW8270C	09/20/12 21:42	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,600	ug/kg	100	SW8270C	09/20/12 21:42	PL	101-55-3	1
di-n-Butyl phthalate	1,300	ug/kg	200	SW8270C	09/20/12 21:42	PL	84-74-2	1B
Benzaldehyde	1,400	ug/kg	100	SW8270C	09/20/12 21:42	PL	100-52-7	1
Benzo(a)anthracene	1,400	ug/kg	100	SW8270C	09/20/12 21:42	PL	56-55-3	1
Benzo(a)pyrene	1,300	ug/kg	100	SW8270C	09/20/12 21:42	PL	50-32-8	1
Benzo(b)fluoranthene	1,300	ug/kg	100	SW8270C	09/20/12 21:42	PL	205-99-2	1
Benzo(ghi)perylene	1,500	ug/kg	100	SW8270C	09/20/12 21:42	PL	191-24-2	1
Benzo(k)fluoranthene	1,400	ug/kg	100	SW8270C	09/20/12 21:42	PL	207-08-9	1
Butyl benzyl phthalate	1,400	ug/kg	100	SW8270C	09/20/12 21:42	PL	85-68-7	1
2-Chloronaphthalene	1,600	ug/kg	100	SW8270C	09/20/12 21:42	PL	91-58-7	1
2-Chlorophenol	1,400	ug/kg	100	SW8270C	09/20/12 21:42	PL	95-57-8	1
4-Chloro-3-methylphenol	1,500	ug/kg	100	SW8270C	09/20/12 21:42	PL	59-50-7	1
4-Chloroaniline	1,500	ug/kg	100	SW8270C	09/20/12 21:42	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,600	ug/kg	100	SW8270C	09/20/12 21:42	PL	7005-72-3	1
Caprolactam	1,700	ug/kg	100	SW8270C	09/20/12 21:42	PL	105-60-2	1
Carbazole	1,600	ug/kg	100	SW8270C	09/20/12 21:42	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,400	ug/kg	100	SW8270C	09/20/12 21:42	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,300	ug/kg	100	SW8270C	09/20/12 21:42	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,200	ug/kg	100	SW8270C	09/20/12 21:42	PL	108-60-1	1
Chrysene	1,300	ug/kg	100	SW8270C	09/20/12 21:42	PL	218-01-9	1
2,4-Dichlorophenol	1,800	ug/kg	100	SW8270C	09/20/12 21:42	PL	120-83-2	1
2,4-Dimethylphenol	1,200	ug/kg	100	SW8270C	09/20/12 21:42	PL	105-67-9	1
2,4-Dinitrophenol	1,100	ug/kg	100	SW8270C	09/20/12 21:42	PL	51-28-5	1
2,4-Dinitrotoluene	1,800	ug/kg	100	SW8270C	09/20/12 21:42	PL	121-14-2	1
2,6-Dinitrotoluene	1,800	ug/kg	100	SW8270C	09/20/12 21:42	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,600	ug/kg	100	SW8270C	09/20/12 21:42	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,900	ug/kg	100	SW8270C	09/20/12 21:42	PL	534-52-1	1
Dibenzo(ah)anthracene	1,400	ug/kg	200	SW8270C	09/20/12 21:42	PL	53-70-3	1

1-Sample spiked at 1.9 mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S53924.11 (continued)
Sample Tag: SB-A5.3-PB172_18'-19' MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Dibenzofuran	1,200	ug/kg	100	SW8270C	09/20/12 21:42	PL	132-64-9	1
Diethyl phthalate	1,700	ug/kg	200	SW8270C	09/20/12 21:42	PL	84-66-2	1
Dimethyl phthalate	1,500	ug/kg	100	SW8270C	09/20/12 21:42	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	1,200	ug/kg	200	SW8270C	09/20/12 21:42	PL	117-81-7	1
Fluoranthene	1,200	ug/kg	100	SW8270C	09/20/12 21:42	PL	206-44-0	1
Fluorene	1,400	ug/kg	100	SW8270C	09/20/12 21:42	PL	86-73-7	1
Hexachlorobenzene	1,400	ug/kg	100	SW8270C	09/20/12 21:42	PL	118-74-1	1
Hexachlorobutadiene	1,400	ug/kg	100	SW8270C	09/20/12 21:42	PL	87-68-3	1
Hexachlorocyclopentadiene	1,100	ug/kg	100	SW8270C	09/20/12 21:42	PL	77-47-4	1
Hexachloroethane	1,200	ug/kg	100	SW8270C	09/20/12 21:42	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,500	ug/kg	100	SW8270C	09/20/12 21:42	PL	193-39-5	1
Isophorone	1,500	ug/kg	100	SW8270C	09/20/12 21:42	PL	78-59-1	1
2-Methylnaphthalene	1,300	ug/kg	100	SW8270C	09/20/12 21:42	PL	91-57-6	1
2-Methylphenol	1,400	ug/kg	100	SW8270C	09/20/12 21:42	PL	95-48-7	1
3-, 4-Methylphenol	1,700	ug/kg	200	SW8270C	09/20/12 21:42	PL	3/4-Cresol	1
2-Nitroaniline	1,900	ug/kg	100	SW8270C	09/20/12 21:42	PL	88-74-4	1
2-Nitrophenol	1,500	ug/kg	100	SW8270C	09/20/12 21:42	PL	88-75-5	1
3-Nitroaniline	2,200	ug/kg	100	SW8270C	09/20/12 21:42	PL	99-09-2	1
4-Nitroaniline	2,700	ug/kg	100	SW8270C	09/20/12 21:42	PL	100-01-6	1
4-Nitrophenol	1,900	ug/kg	100	SW8270C	09/20/12 21:42	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,300	ug/kg	100	SW8270C	09/20/12 21:42	PL	621-64-7	1
N-Nitrosodiphenylamine	1,300	ug/kg	100	SW8270C	09/20/12 21:42	PL	86-30-6	1
Naphthalene	1,300	ug/kg	100	SW8270C	09/20/12 21:42	PL	91-20-3	1
Nitrobenzene	1,700	ug/kg	100	SW8270C	09/20/12 21:42	PL	98-95-3	1
di-n-Octyl phthalate	1,300	ug/kg	200	SW8270C	09/20/12 21:42	PL	117-84-0	1
Pentachlorophenol	1,400	ug/kg	100	SW8270C	09/20/12 21:42	PL	87-86-5	1
Phenanthrene	1,300	ug/kg	100	SW8270C	09/20/12 21:42	PL	85-01-8	1
Phenol	1,400	ug/kg	100	SW8270C	09/20/12 21:42	PL	108-95-2	1
Pyrene	1,400	ug/kg	100	SW8270C	09/20/12 21:42	PL	129-00-0	1
2,4,5-Trichlorophenol	1,800	ug/kg	100	SW8270C	09/20/12 21:42	PL	95-95-4	1
2,4,6-Trichlorophenol	1,700	ug/kg	100	SW8270C	09/20/12 21:42	PL	88-06-2	1

1-Sample spiked at 1.9 mg/kg



Analytical Laboratory Report

Lab Sample ID: S53924.12
Sample Tag: SB-A5.3-PB172_18'-19' MSD
Collected Date/Time: 09/17/2012 12:00
Matrix: Soil
COC Reference: 67978

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/18/12 20:43	EMR		
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Inorganics

Total Solids	90	%	1	Std M 2540 B	09/19/12 12:00	WAR		
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Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	1,200	ug/kg	100	SW8270C	09/20/12 22:16	PL	83-32-9	1
Acenaphthylene	1,300	ug/kg	100	SW8270C	09/20/12 22:16	PL	208-96-8	1
Acetophenone	1,200	ug/kg	100	SW8270C	09/20/12 22:16	PL	98-86-2	1
Anthracene	1,100	ug/kg	100	SW8270C	09/20/12 22:16	PL	120-12-7	1
Atrazine	1,100	ug/kg	100	SW8270C	09/20/12 22:16	PL	1912-24-9	1
1,1'-Biphenyl	1,100	ug/kg	100	SW8270C	09/20/12 22:16	PL	92-52-4	1
4-Bromophenyl phenyl ether	1,500	ug/kg	100	SW8270C	09/20/12 22:16	PL	101-55-3	1
di-n-Butyl phthalate	1,200	ug/kg	200	SW8270C	09/20/12 22:16	PL	84-74-2	1B
Benzaldehyde	1,300	ug/kg	100	SW8270C	09/20/12 22:16	PL	100-52-7	1
Benzo(a)anthracene	1,200	ug/kg	100	SW8270C	09/20/12 22:16	PL	56-55-3	1
Benzo(a)pyrene	1,100	ug/kg	100	SW8270C	09/20/12 22:16	PL	50-32-8	1
Benzo(b)fluoranthene	1,200	ug/kg	100	SW8270C	09/20/12 22:16	PL	205-99-2	1
Benzo(ghi)perylene	1,300	ug/kg	100	SW8270C	09/20/12 22:16	PL	191-24-2	1
Benzo(k)fluoranthene	1,200	ug/kg	100	SW8270C	09/20/12 22:16	PL	207-08-9	1
Butyl benzyl phthalate	1,200	ug/kg	100	SW8270C	09/20/12 22:16	PL	85-68-7	1
2-Chloronaphthalene	1,400	ug/kg	100	SW8270C	09/20/12 22:16	PL	91-58-7	1
2-Chlorophenol	1,300	ug/kg	100	SW8270C	09/20/12 22:16	PL	95-57-8	1
4-Chloro-3-methylphenol	1,300	ug/kg	100	SW8270C	09/20/12 22:16	PL	59-50-7	1
4-Chloroaniline	1,400	ug/kg	100	SW8270C	09/20/12 22:16	PL	106-47-8	1
4-Chlorophenyl phenyl ether	1,400	ug/kg	100	SW8270C	09/20/12 22:16	PL	7005-72-3	1
Caprolactam	1,500	ug/kg	100	SW8270C	09/20/12 22:16	PL	105-60-2	1
Carbazole	1,400	ug/kg	100	SW8270C	09/20/12 22:16	PL	86-74-8	1
bis(2-Chloroethoxy)methane	1,200	ug/kg	100	SW8270C	09/20/12 22:16	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,200	ug/kg	100	SW8270C	09/20/12 22:16	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,100	ug/kg	100	SW8270C	09/20/12 22:16	PL	108-60-1	1
Chrysene	1,200	ug/kg	100	SW8270C	09/20/12 22:16	PL	218-01-9	1
2,4-Dichlorophenol	1,600	ug/kg	100	SW8270C	09/20/12 22:16	PL	120-83-2	1
2,4-Dimethylphenol	1,000	ug/kg	100	SW8270C	09/20/12 22:16	PL	105-67-9	1
2,4-Dinitrophenol	1,000	ug/kg	100	SW8270C	09/20/12 22:16	PL	51-28-5	1
2,4-Dinitrotoluene	1,600	ug/kg	100	SW8270C	09/20/12 22:16	PL	121-14-2	1
2,6-Dinitrotoluene	1,600	ug/kg	100	SW8270C	09/20/12 22:16	PL	606-20-2	1
3,3'-Dichlorobenzidine	1,400	ug/kg	100	SW8270C	09/20/12 22:16	PL	91-94-1	1
4,6-Dinitro-2-methylphenol	1,700	ug/kg	100	SW8270C	09/20/12 22:16	PL	534-52-1	1
Dibenzo(ah)anthracene	1,200	ug/kg	200	SW8270C	09/20/12 22:16	PL	53-70-3	1

1-Sample spiked at 1.9 mg/kg

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S53924.12 (continued)

Sample Tag: SB-A5.3-PB172_18'-19' MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Dibenzofuran	1,100	ug/kg	100	SW8270C	09/20/12 22:16	PL	132-64-9	1
Diethyl phthalate	1,500	ug/kg	200	SW8270C	09/20/12 22:16	PL	84-66-2	1
Dimethyl phthalate	1,400	ug/kg	100	SW8270C	09/20/12 22:16	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	1,100	ug/kg	200	SW8270C	09/20/12 22:16	PL	117-81-7	1
Fluoranthene	1,100	ug/kg	100	SW8270C	09/20/12 22:16	PL	206-44-0	1
Fluorene	1,200	ug/kg	100	SW8270C	09/20/12 22:16	PL	86-73-7	1
Hexachlorobenzene	1,200	ug/kg	100	SW8270C	09/20/12 22:16	PL	118-74-1	1
Hexachlorobutadiene	1,300	ug/kg	100	SW8270C	09/20/12 22:16	PL	87-68-3	1
Hexachlorocyclopentadiene	900	ug/kg	100	SW8270C	09/20/12 22:16	PL	77-47-4	1
Hexachloroethane	1,100	ug/kg	100	SW8270C	09/20/12 22:16	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,300	ug/kg	100	SW8270C	09/20/12 22:16	PL	193-39-5	1
Isophorone	1,300	ug/kg	100	SW8270C	09/20/12 22:16	PL	78-59-1	1
2-Methylnaphthalene	1,200	ug/kg	100	SW8270C	09/20/12 22:16	PL	91-57-6	1
2-Methylphenol	1,300	ug/kg	100	SW8270C	09/20/12 22:16	PL	95-48-7	1
3-, 4-Methylphenol	1,500	ug/kg	200	SW8270C	09/20/12 22:16	PL	3/4-Cresol	1
2-Nitroaniline	1,700	ug/kg	100	SW8270C	09/20/12 22:16	PL	88-74-4	1
2-Nitrophenol	1,300	ug/kg	100	SW8270C	09/20/12 22:16	PL	88-75-5	1
3-Nitroaniline	1,900	ug/kg	100	SW8270C	09/20/12 22:16	PL	99-09-2	1
4-Nitroaniline	2,300	ug/kg	100	SW8270C	09/20/12 22:16	PL	100-01-6	1
4-Nitrophenol	1,700	ug/kg	100	SW8270C	09/20/12 22:16	PL	100-02-7	1
N-Nitrosodi-n-propylamine	1,200	ug/kg	100	SW8270C	09/20/12 22:16	PL	621-64-7	1
N-Nitrosodiphenylamine	1,100	ug/kg	100	SW8270C	09/20/12 22:16	PL	86-30-6	1
Naphthalene	1,200	ug/kg	100	SW8270C	09/20/12 22:16	PL	91-20-3	1
Nitrobenzene	1,500	ug/kg	100	SW8270C	09/20/12 22:16	PL	98-95-3	1
di-n-Octyl phthalate	1,100	ug/kg	200	SW8270C	09/20/12 22:16	PL	117-84-0	1
Pentachlorophenol	1,300	ug/kg	100	SW8270C	09/20/12 22:16	PL	87-86-5	1
Phenanthrene	1,100	ug/kg	100	SW8270C	09/20/12 22:16	PL	85-01-8	1
Phenol	1,300	ug/kg	100	SW8270C	09/20/12 22:16	PL	108-95-2	1
Pyrene	1,200	ug/kg	100	SW8270C	09/20/12 22:16	PL	129-00-0	1
2,4,5-Trichlorophenol	1,500	ug/kg	100	SW8270C	09/20/12 22:16	PL	95-95-4	1
2,4,6-Trichlorophenol	1,500	ug/kg	100	SW8270C	09/20/12 22:16	PL	88-06-2	1

1-Sample spiked at 1.9 mg/kg



Analytical Laboratory Report

Lab Sample ID: S53924.13
Sample Tag: SB-A5.3-PF159_3'-7'
Collected Date/Time: 09/17/2012 14:00
Matrix: Groundwater
COC Reference: 67980

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	09/18/12 16:53	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	09/19/12 16:18	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	09/19/12 16:18	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	09/19/12 16:18	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	09/19/12 16:18	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	09/19/12 16:18	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/19/12 16:18	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	95-47-6	



Analytical Laboratory Report

Lab Sample ID: S53924.13 (continued)

Sample Tag: SB-A5.3-PF159_3'-7'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Styrene	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	09/19/12 16:18	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S53924.14
Sample Tag: SB-A5.3-PF159_14'-15'
Collected Date/Time: 09/17/2012 14:19
Matrix: Soil
COC Reference: 67980

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	91	%	1	Std M 2540 B	09/19/12 12:00	WAR		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	76-13-1	
Acetone	Not detected	ug/kg	620	5035/8260B	09/19/12 14:38	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	620	5035/8260B	09/19/12 14:38	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	620	5035/8260B	09/19/12 14:38	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	620	5035/8260B	09/19/12 14:38	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	620	5035/8260B	09/19/12 14:38	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53924.14 (continued)

Sample Tag: SB-A5.3-PF159_14'-15'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/19/12 14:38	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:38	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53924.15

Sample Tag: SB-A5.3-PF159_19'-20'

Collected Date/Time: 09/17/2012 14:58

Matrix: Soil

COC Reference: 67980

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	91	%	1	Std M 2540 B	09/19/12 12:00	WAR		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	76-13-1	
Acetone	Not detected	ug/kg	590	5035/8260B	09/19/12 14:56	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	590	5035/8260B	09/19/12 14:56	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	590	5035/8260B	09/19/12 14:56	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	590	5035/8260B	09/19/12 14:56	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	590	5035/8260B	09/19/12 14:56	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53924.15 (continued)

Sample Tag: SB-A5.3-PF159_19'-20'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/19/12 14:56	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 14:56	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53924.16
Sample Tag: SB-A5.3-DUP19
Collected Date/Time: 09/17/2012 00:01
Matrix: Soil
COC Reference: 67980

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	90	%	1	Std M 2540 B	09/19/12 12:00	WAR		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	76-13-1	
Acetone	Not detected	ug/kg	590	5035/8260B	09/19/12 15:15	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	590	5035/8260B	09/19/12 15:15	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	590	5035/8260B	09/19/12 15:15	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	590	5035/8260B	09/19/12 15:15	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	590	5035/8260B	09/19/12 15:15	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53924.16 (continued)

Sample Tag: SB-A5.3-DUP19

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/19/12 15:15	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:15	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53924.17
Sample Tag: SB-A5.3-PF159_10'-14'
Collected Date/Time: 09/17/2012 14:35
Matrix: Groundwater
COC Reference: 67980

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	09/18/12 17:13	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	09/18/12 18:27	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	09/18/12 18:27	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	09/18/12 18:27	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	09/18/12 18:27	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	09/18/12 18:27	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/18/12 18:27	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	95-47-6	



Analytical Laboratory Report

Lab Sample ID: S53924.17 (continued)

Sample Tag: SB-A5.3-PF159_10'-14'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Styrene	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	09/18/12 18:27	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S53924.18
Sample Tag: SB-A5.3-PF159_24'-25'
Collected Date/Time: 09/17/2012 15:05
Matrix: Soil
COC Reference: 67980

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	85	%	1	Std M 2540 B	09/19/12 12:00	WAR		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	76-13-1	
Acetone	Not detected	ug/kg	680	5035/8260B	09/19/12 15:33	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	680	5035/8260B	09/19/12 15:33	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	680	5035/8260B	09/19/12 15:33	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	680	5035/8260B	09/19/12 15:33	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	680	5035/8260B	09/19/12 15:33	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53924.18 (continued)

Sample Tag: SB-A5.3-PF159_24'-25'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/19/12 15:33	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/19/12 15:33	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53924.19
Sample Tag: SB-A5.3-PF159_29'-30'
Collected Date/Time: 09/17/2012 15:10
Matrix: Soil
COC Reference: 67980

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	89	%	1	Std M 2540 B	09/19/12 12:00	WAR		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	76-13-1	
Acetone	Not detected	ug/kg	620	5035/8260B	09/19/12 15:51	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	620	5035/8260B	09/19/12 15:51	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	620	5035/8260B	09/19/12 15:51	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	620	5035/8260B	09/19/12 15:51	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	620	5035/8260B	09/19/12 15:51	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S53924.19 (continued)

Sample Tag: SB-A5.3-PF159_29'-30'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/19/12 15:51	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 15:51	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53924.20
Sample Tag: SB-A1-RJ78_10'-14'
Collected Date/Time: 09/17/2012 16:15
Matrix: Groundwater
COC Reference: 67980

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR
1	1L Amber	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

PNA Extraction Completed 3510C 09/20/12 16:30 PL

Organics - Semi-Volatiles

Polynuclear Aromatics, Dissolved

Acenaphthene	Not detected	ug/L	1	SW8270C	09/22/12 00:52	PL	83-32-9
Acenaphthylene	Not detected	ug/L	1	SW8270C	09/22/12 00:52	PL	208-96-8
Anthracene	Not detected	ug/L	1	SW8270C	09/22/12 00:52	PL	120-12-7
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/22/12 00:52	PL	56-55-3
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/22/12 00:52	PL	50-32-8
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/22/12 00:52	PL	205-99-2
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/22/12 00:52	PL	191-24-2
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/22/12 00:52	PL	207-08-9
Chrysene	Not detected	ug/L	1	SW8270C	09/22/12 00:52	PL	218-01-9
Dibenzo(ah)anthracene	Not detected	ug/L	1	SW8270C	09/22/12 00:52	PL	53-70-3
Fluoranthene	Not detected	ug/L	1	SW8270C	09/22/12 00:52	PL	206-44-0
Fluorene	Not detected	ug/L	1	SW8270C	09/22/12 00:52	PL	86-73-7
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	09/22/12 00:52	PL	193-39-5
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	09/22/12 00:52	PL	91-57-6
Naphthalene	Not detected	ug/L	1	SW8270C	09/22/12 00:52	PL	91-20-3
Phenanthrene	Not detected	ug/L	1	SW8270C	09/22/12 00:52	PL	85-01-8
Pyrene	Not detected	ug/L	1	SW8270C	09/22/12 00:52	PL	129-00-0
1-Methylnaphthalene	Not detected	ug/L	1	SW8270C	09/22/12 00:52	PL	90-12-0

Organics - Volatiles

1,4-Dioxane Not detected ug/L 5 SW8260B - SIM 09/18/12 17:33 WAT 123-91-1

TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	76-13-1
Acetone	Not detected	ug/L	10	SW8260B	09/18/12 18:47	WAT	67-64-1
Carbon disulfide	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	75-15-0
Methyl Acetate	Not detected	ug/L	10	SW8260B	09/18/12 18:47	WAT	79-20-9
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	1634-04-4
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	09/18/12 18:47	WAT	78-93-3
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	75-71-8
Chloromethane	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	74-87-3
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	75-01-4
Bromomethane	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	74-83-9
Chloroethane	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	75-00-3
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	75-69-4
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	75-35-4
Methylene chloride	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	75-09-2
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	156-60-5



Analytical Laboratory Report

Lab Sample ID: S53924.20 (continued)

Sample Tag: SB-A1-RJ78_10'-14'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	09/18/12 18:47	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	09/18/12 18:47	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/18/12 18:47	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	09/18/12 18:47	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S53924.21

Sample Tag: SB-A1-RM55_1'-2'

Collected Date/Time: 09/17/2012 17:10

Matrix: Soil

COC Reference: 67980

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	09/20/12 01:00	SLR		
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Inorganics

Total Solids	83	%	1	Std M 2540 B	09/19/12 12:00	WAR		
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Metals

Arsenic	4.06	mg/kg	0.02	SW6020	09/20/12 15:23	SLS	7440-38-2	
Cobalt	3.97	mg/kg	0.23	SW6020	09/20/12 15:23	SLS	7440-48-4	
Manganese	224	mg/kg	0.23	SW6020	09/21/12 12:00	SLS	7439-96-5	
Silver	0.19	mg/kg	0.02	SW6020	09/21/12 13:45	SLS	7440-22-4	



Analytical Laboratory Report

Lab Sample ID: S53924.22
Sample Tag: SB-A1-DUP20
Collected Date/Time: 09/17/2012 00:01
Matrix: Soil
COC Reference: 67980

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	09/20/12 01:00	SLR		
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Inorganics

Total Solids	88	%	1	Std M 2540 B	09/19/12 12:00	WAR		
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Metals

Arsenic	3.86	mg/kg	0.02	SW6020	09/20/12 15:27	SLS	7440-38-2	
Cobalt	4.74	mg/kg	0.24	SW6020	09/20/12 15:27	SLS	7440-48-4	
Manganese	259	mg/kg	0.24	SW6020	09/21/12 12:03	SLS	7439-96-5	
Silver	0.24	mg/kg	0.02	SW6020	09/21/12 13:47	SLS	7440-22-4	



Analytical Laboratory Report

Lab Sample ID: S53924.23
Sample Tag: SB-A1-RM55_8'-9'
Collected Date/Time: 09/17/2012 17:25
Matrix: Soil
COC Reference: 67980

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	09/20/12 01:00	SLR		
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Inorganics

Total Solids	89	%	1	Std M 2540 B	09/19/12 12:00	WAR		
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Metals

Arsenic	2.05	mg/kg	0.02	SW6020	09/20/12 16:18	SLS	7440-38-2	
Cobalt	3.76	mg/kg	0.23	SW6020	09/20/12 16:18	SLS	7440-48-4	
Manganese	237	mg/kg	0.23	SW6020	09/21/12 12:06	SLS	7439-96-5	
Silver	Not detected	mg/kg	0.02	SW6020	09/21/12 13:49	SLS	7440-22-4	



Analytical Laboratory Report

Lab Sample ID: S53924.24

Sample Tag: SB-A1-RM55_19'-20'

Collected Date/Time: 09/17/2012 17:40

Matrix: Soil

COC Reference: 67980

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	09/20/12 01:00	SLR		
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Inorganics

Total Solids	89	%	1	Std M 2540 B	09/19/12 12:00	WAR		
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Metals

Arsenic	2.22	mg/kg	0.02	SW6020	09/20/12 16:22	SLS	7440-38-2	
Cobalt	4.21	mg/kg	0.23	SW6020	09/20/12 16:22	SLS	7440-48-4	
Manganese	255	mg/kg	0.23	SW6020	09/21/12 12:08	SLS	7439-96-5	
Silver	0.02	mg/kg	0.02	SW6020	09/21/12 13:51	SLS	7440-22-4	



Analytical Laboratory Report

Lab Sample ID: S53924.25
Sample Tag: SB-A1-RJ79_3'-4'
Collected Date/Time: 09/17/2012 18:16
Matrix: Soil
COC Reference: 67973

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

PNA Extraction	Completed			3550B	09/18/12 16:29	PL		
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Inorganics

Total Solids	95	%	1	Std M 2540 B	09/19/12 12:00	WAR		
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Organics - Semi-Volatiles

Polynuclear Aromatics

Acenaphthene	Not detected	ug/kg	100	SW8270C	09/20/12 22:50	PL	83-32-9
Acenaphthylene	Not detected	ug/kg	100	SW8270C	09/20/12 22:50	PL	208-96-8
Anthracene	Not detected	ug/kg	100	SW8270C	09/20/12 22:50	PL	120-12-7
Benzo(a)anthracene	Not detected	ug/kg	100	SW8270C	09/20/12 22:50	PL	56-55-3
Benzo(a)pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 22:50	PL	50-32-8
Benzo(b)fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 22:50	PL	205-99-2
Benzo(ghi)perylene	Not detected	ug/kg	100	SW8270C	09/20/12 22:50	PL	191-24-2
Benzo(k)fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 22:50	PL	207-08-9
Chrysene	Not detected	ug/kg	100	SW8270C	09/20/12 22:50	PL	218-01-9
Dibenzo(ah)anthracene	Not detected	ug/kg	100	SW8270C	09/20/12 22:50	PL	53-70-3
Fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 22:50	PL	206-44-0
Fluorene	Not detected	ug/kg	100	SW8270C	09/20/12 22:50	PL	86-73-7
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 22:50	PL	193-39-5
2-Methylnaphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 22:50	PL	91-57-6
Naphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 22:50	PL	91-20-3
Phenanthrene	Not detected	ug/kg	100	SW8270C	09/20/12 22:50	PL	85-01-8
Pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 22:50	PL	129-00-0
1-Methylnaphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 22:50	PL	90-12-0

Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	76-13-1
Acetone	Not detected	ug/kg	570	5035/8260B	09/19/12 16:09	WAT	67-64-1
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	75-15-0
Methyl Acetate	Not detected	ug/kg	570	5035/8260B	09/19/12 16:09	WAT	79-20-9
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	1634-04-4
2-Butanone (MEK)	Not detected	ug/kg	570	5035/8260B	09/19/12 16:09	WAT	78-93-3
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	75-71-8
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	74-87-3
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	75-01-4
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	74-83-9
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	75-00-3
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	75-69-4
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	75-35-4
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	75-09-2



Analytical Laboratory Report

Lab Sample ID: S53924.25 (continued)

Sample Tag: SB-A1-RJ79_3'-4'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	570	5035/8260B	09/19/12 16:09	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	570	5035/8260B	09/19/12 16:09	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/19/12 16:09	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:09	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53924.26
Sample Tag: SB-A1-RJ79_9'-10'
Collected Date/Time: 09/17/2012 18:24
Matrix: Soil
COC Reference: 67973

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

PNA Extraction	Completed			3550B	09/18/12 16:29	PL		
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Inorganics

Total Solids	96	%	1	Std M 2540 B	09/19/12 12:00	WAR		
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Organics - Semi-Volatiles

Polynuclear Aromatics

Acenaphthene	Not detected	ug/kg	100	SW8270C	09/20/12 23:09	PL	83-32-9
Acenaphthylene	Not detected	ug/kg	100	SW8270C	09/20/12 23:09	PL	208-96-8
Anthracene	Not detected	ug/kg	100	SW8270C	09/20/12 23:09	PL	120-12-7
Benzo(a)anthracene	Not detected	ug/kg	100	SW8270C	09/20/12 23:09	PL	56-55-3
Benzo(a)pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 23:09	PL	50-32-8
Benzo(b)fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 23:09	PL	205-99-2
Benzo(ghi)perylene	Not detected	ug/kg	100	SW8270C	09/20/12 23:09	PL	191-24-2
Benzo(k)fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 23:09	PL	207-08-9
Chrysene	Not detected	ug/kg	100	SW8270C	09/20/12 23:09	PL	218-01-9
Dibenzo(ah)anthracene	Not detected	ug/kg	100	SW8270C	09/20/12 23:09	PL	53-70-3
Fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 23:09	PL	206-44-0
Fluorene	Not detected	ug/kg	100	SW8270C	09/20/12 23:09	PL	86-73-7
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 23:09	PL	193-39-5
2-Methylnaphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 23:09	PL	91-57-6
Naphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 23:09	PL	91-20-3
Phenanthrene	Not detected	ug/kg	100	SW8270C	09/20/12 23:09	PL	85-01-8
Pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 23:09	PL	129-00-0
1-Methylnaphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 23:09	PL	90-12-0

Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	76-13-1
Acetone	Not detected	ug/kg	560	5035/8260B	09/19/12 16:27	WAT	67-64-1
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	75-15-0
Methyl Acetate	Not detected	ug/kg	560	5035/8260B	09/19/12 16:27	WAT	79-20-9
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	1634-04-4
2-Butanone (MEK)	Not detected	ug/kg	560	5035/8260B	09/19/12 16:27	WAT	78-93-3
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	75-71-8
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	74-87-3
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	75-01-4
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	74-83-9
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	75-00-3
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	75-69-4
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	75-35-4
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	75-09-2



Analytical Laboratory Report

Lab Sample ID: S53924.26 (continued)

Sample Tag: SB-A1-RJ79_9'-10'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	560	5035/8260B	09/19/12 16:27	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	560	5035/8260B	09/19/12 16:27	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/19/12 16:27	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:27	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S53924.27
Sample Tag: SB-A1-RJ79_16'-17'
Collected Date/Time: 09/17/2012 18:34
Matrix: Soil
COC Reference: 67973

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

PNA Extraction	Completed			3550B	09/18/12 16:29	PL		
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Inorganics

Total Solids	87	%	1	Std M 2540 B	09/19/12 12:00	WAR		
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Organics - Semi-Volatiles

Polynuclear Aromatics

Acenaphthene	Not detected	ug/kg	100	SW8270C	09/20/12 23:29	PL	83-32-9
Acenaphthylene	Not detected	ug/kg	100	SW8270C	09/20/12 23:29	PL	208-96-8
Anthracene	Not detected	ug/kg	100	SW8270C	09/20/12 23:29	PL	120-12-7
Benzo(a)anthracene	Not detected	ug/kg	100	SW8270C	09/20/12 23:29	PL	56-55-3
Benzo(a)pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 23:29	PL	50-32-8
Benzo(b)fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 23:29	PL	205-99-2
Benzo(ghi)perylene	Not detected	ug/kg	100	SW8270C	09/20/12 23:29	PL	191-24-2
Benzo(k)fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 23:29	PL	207-08-9
Chrysene	Not detected	ug/kg	100	SW8270C	09/20/12 23:29	PL	218-01-9
Dibenzo(ah)anthracene	Not detected	ug/kg	100	SW8270C	09/20/12 23:29	PL	53-70-3
Fluoranthene	Not detected	ug/kg	100	SW8270C	09/20/12 23:29	PL	206-44-0
Fluorene	Not detected	ug/kg	100	SW8270C	09/20/12 23:29	PL	86-73-7
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 23:29	PL	193-39-5
2-Methylnaphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 23:29	PL	91-57-6
Naphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 23:29	PL	91-20-3
Phenanthrene	Not detected	ug/kg	100	SW8270C	09/20/12 23:29	PL	85-01-8
Pyrene	Not detected	ug/kg	100	SW8270C	09/20/12 23:29	PL	129-00-0
1-Methylnaphthalene	Not detected	ug/kg	100	SW8270C	09/20/12 23:29	PL	90-12-0

Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	76-13-1
Acetone	Not detected	ug/kg	630	5035/8260B	09/19/12 16:46	WAT	67-64-1
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	75-15-0
Methyl Acetate	Not detected	ug/kg	630	5035/8260B	09/19/12 16:46	WAT	79-20-9
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	1634-04-4
2-Butanone (MEK)	Not detected	ug/kg	630	5035/8260B	09/19/12 16:46	WAT	78-93-3
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	75-71-8
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	74-87-3
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	75-01-4
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	74-83-9
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	75-00-3
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	75-69-4
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	75-35-4
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	75-09-2



Analytical Laboratory Report

Lab Sample ID: S53924.27 (continued)

Sample Tag: SB-A1-RJ79_16'-17'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	630	5035/8260B	09/19/12 16:46	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	630	5035/8260B	09/19/12 16:46	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/19/12 16:46	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/19/12 16:46	WAT	120-82-1	

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME			
Randy Christensen			
COMPANY			
ARCADIS			
ADDRESS			
10559 Citation Drive Suite 100			
CITY			STATE
Brighton			Mi
			ZIP CODE
			48116
PHONE NO.		FAX NO.	P.O. NO.
810-225-1910			PO125047
E-MAIL ADDRESS			QUOTE NO.
randy.christensen@arcadis-us.com			Task#: 00105

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208		E-MAIL ADDRESS dfavero@racertrust.org	

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Lansing Plant 2 Project# 80064479 2012 00105	SAMPLER(S) - PLEASE PRINT/SIGN NAME Alex Villanet / AQ
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ 5 day STANDARD ☐ OTHER _____	
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____	

MATRIX	GW-GROUNDWATER	WW-WASTEWATER	S-SOIL	L-LIQUID	SD-SOLID
CODE	SL-SLUDGE	DW-DRINKING WATER	O-OIL	WP-WIPE	A-AIR W-WASTE

MERIT LAB NO. FOR LAB USE ONLY	YEAR 2012		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES
	DATE	TIME			
5124.01	9/17	9:20	SB-AS-3-0X180-1'-5'	GW	4
02	9/17	9:20	SB-AS-3-0X180-1'-5' MS	GW	4
03	9/17	9:20	SB-AS-3-0X180-1'-5' MSD	GW	4
04	9/17	8:00	Trip blank		1
05	9/17	10:05	SB-AS-3-0X180-7'-8'	S	1
06	9/17	10:40	SB-AS-3-0X180-17'-18'	S	1
07	9/17	11:12	SB-AS-3-PB172-1'-2'	S	1
08	9/17	—	SB-AS-3-DUP18	S	1
09	9/17	11:45	SB-AS-3-PB-172-11'-15'	GW	4
10	9/17	12:00	SB-AS-3-PB172-18'-19'	S	1
11	9/17	12:00	SB-AS-3-PB172-18'-19' MS	S	1
12	9/17	12:00	SB-AS-3-PB172-18'-19' MSD	S	1

# Containers & Preservatives							VOCs			SVOCs			PCBs			Metals (w/Hg)			Special Instructions		
NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	TCL	TCL	TAL	1,4 dioxene (SINS)	MS	MSD									
2	2						X	X	X	X	X										
2	2						X	X	X	X	X										
2	2						X	X	X	X	X										
							X	X	X	X	X										
1								X													
1								X													
1								X													
2	2						X	X	X	X	X										
1								X													
1								X													
1								X													

☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
 Project Locations
☐ Detroit ☐ New York
☐ Other _____
 Special Instructions
 All water except HCL preservative
 VOCs are field filtered

RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>ag-vill</i> / PINE X Sampler	DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>PM Storage</i>	9/17/12	19:10
RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>PM Storage</i>	9/17/12	19:10
RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>PM Storage</i>	9/18/12	18:00
RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>Isk W</i>	9/18/12	18:00

RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>[Signature]</i>			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>[Signature]</i>			DATE <i>9-18-12</i>	TIME <i>1125</i>
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES:	TEMP. ON ARRIVAL <i>42</i>
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		

Merit

Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
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 www.meritlabs.com

C.O.C. PAGE # 2 OF 3

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REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME **Randy Christensen**

COMPANY **ARCADIS**

ADDRESS **10559 Citation Drive Suite 100**

CITY **Brighton** STATE **MI** ZIP CODE **48116**

PHONE NO. **810-225-1910** FAX NO. P.O. NO. **PO125047**

E-MAIL ADDRESS **randy.christensen@arcadis-us.com** QUOTE NO. **Task# 00105**

CONTACT NAME **Dave Favero** ☐ SAME

COMPANY **RACER TRUST**

ADDRESS **2930 Ecorse Road**

CITY **Ypsilanti** STATE **MI** ZIP CODE **48198**

PHONE NO. **313-486-9208** E-MAIL ADDRESS **dfavero@racertrust.org**

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME **Lansing Plant 2 Project# B0064479 2012 00105** SAMPLER(S) PLEASE PRINT/SIGN NAME **Alex Villhauer / a/villh**

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WPIPE A=AIR W=WASTE

Containers & Preservatives

MERIT LAB NO.	DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	H ₂ O	HNO ₃	H ₂ SO ₄	NaOH	NaOH	OTHER	TCL	SVOCs	PCBs	Metals (w/Hg)	1,4 dioxane (SIMS)	MS	MSD	8270-PNAs	Co, As, Mn, Ag	Certifications	Project Locations	Special Instructions
53024.13	9/17	14:00	SB-AS-3-PF159-3'-7'	GW	2	2							X				X					☐ OHIO VAP ☐ Drinking Water	☐ Detroit ☐ New York	
.14	9/17	14:19	SB-AS-3-PF159-14'-15'	S	2	1					1		X									☐ DoD ☐ NPDES		
.15	9/17	14:58	SB-AS-3-PF159-19'-20'	S	2	1					1		X											
.16	9/17	-	SB-AS-3-DUP19	S	2	1					1		X											
.17	9/17	14:35	SB-AS-3-PF159-10'-14'	GW	2	2							X				X							
.18	9/17	15:05	SB-AS-3-PF159-24'-25'	S	2	1					1		X											
.19	9/17	15:10	SB-AS-3-PF159-29'-30'	S	2	1					1		X											
.20	9/17	16:15	SB-A1-RJ78-10'-14'	GW	3	2							X				X			X				
.21	9/17	17:10	SB-A1-RM55-1'-2'	S	1	1															X			
.22	9/17	-	SB-A1-DUP20	S	1	1															X			
.23	9/17	17:25	SB-A1-RM55-8'-9'	S	1	1															X			
.24	9/17	17:40	SB-A1-RM55-19'-20'	S	1	1															X			

RELINQUISHED BY: **AE Villhauer / PME** ☒ Sampler DATE **9/17/12** TIME **14:10**

RELINQUISHED BY: **PM Storage** DATE **9/17/12** TIME **19:10**

RELINQUISHED BY: **PM Storage** DATE **9/18/12** TIME **14:00**

RELINQUISHED BY: **Isch W** DATE **9/18/12** TIME **10:00**

RELINQUISHED BY: **Isch W** DATE **9/18/12** TIME **11:25**

RELINQUISHED BY: **Isch W** DATE **9/18/12** TIME **11:25**

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL **4.2**

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 2 OF 2

67973

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME				Randy Christensen			
COMPANY				ARCADIS			
ADDRESS				10559 Citation Drive Suite 100			
CITY				STATE		ZIP CODE	
Brighton				MI		48116	
PHONE NO.		FAX NO.		P.O. NO.			
810-225-1910				PO125047			
E-MAIL ADDRESS				QUOTE NO.			
randy.christensen@arcadis-us.com				Task#: 00105			

CONTACT NAME		Dave Favero		☐ SAME	
COMPANY		RACER TRUST			
ADDRESS		2930 Ecorse Road			
CITY		Ypsilanti		STATE	MI
				ZIP CODE	48198
PHONE NO.		E-MAIL ADDRESS			
313-486-9208		d Favero@racertrust.org			

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Lansing Plant 2 Project# B0064479.2012.00105	SAMPLER(S) - PLEASE PRINT/SIGN NAME Alex Villhauer / Ed [Signature]
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ 5 DAY ☐ OTHER 3 Day	
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____	

MATRIX	GW=GROUNDWATER	WW=WASTEWATER	S=SOIL	L=LIQUID	SD=SOLID
CODE	SL=SLUDGE	DW=DRINKING WATER	O=OIL	WP=WIPE	A=AIR W=WASTE

[illegible]

# Containers & Preservatives							TCL VOCs	TCL SVOCs	PCBs	Metals (w/Hg)	Certifications	Project Locations	Special Instructions	
NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER					☐ OHIO VAP ☐ Drinking Water	☐ DoD ☐ NPDES	☐ Detroit ☐ New York	☐ Other _____
1					1		X			TAL 1,4 dioxene (STING) 8270-PNAs				
1					1		X							
1					1		X							

RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>Car. [Signature] / PME X</i>	DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>PM Storage</i>	9/17/12	19:10
RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>PM Storage</i>	9/17/12	19:10
RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>PM Storage</i>	9/18/12	10:00
RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>Isak [Signature]</i>	9/18/12	10:00

RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE		TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE		TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES:	TEMP. ON ARRIVAL	4.2
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS			

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1.15.12



Analytical Laboratory Report

Report ID: S53929.01(01)
Generated on 09/21/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S53929.01-S53929.08
Project: Lansing Plant #2 Project# B0064479.2012.00105
Collected Date: 09/17/2012
Submitted Date/Time: 09/18/2012 12:55
Sampled by: Unknown
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)
Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (8 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S53929.01	APC MW-8 D	Groundwater	09/17/2012 13:10
S53929.02	APC MW-8 S	Groundwater	09/17/2012 14:00
S53929.03	APC MW-9 D	Groundwater	09/17/2012 15:35
S53929.04	APC MW-2 D	Groundwater	09/17/2012 16:45
S53929.05	APC MW-4 S	Groundwater	09/17/2012 17:40
S53929.06	DUP-1-091712	Groundwater	09/17/2012 00:01
S53929.07	APC MW-4 D	Groundwater	09/17/2012 18:45
S53929.08	Trip Blank	Liquid	09/17/2012 00:01



Analytical Laboratory Report

Lab Sample ID: S53929.01
Sample Tag: APC MW-8 D
Collected Date/Time: 09/17/2012 13:10
Matrix: Groundwater
COC Reference: 69155

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	88	ug/L	5	SW8260B - SIM	09/19/12 15:13	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	09/19/12 17:59	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	09/19/12 17:59	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	09/19/12 17:59	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	09/19/12 17:59	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	09/19/12 17:59	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/19/12 17:59	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	95-47-6	



Analytical Laboratory Report

Lab Sample ID: S53929.01 (continued)

Sample Tag: APC MW-8 D

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Styrene	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	09/19/12 17:59	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S53929.02
Sample Tag: APC MW-8 S
Collected Date/Time: 09/17/2012 14:00
Matrix: Groundwater
COC Reference: 69155

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	33	ug/L	5	SW8260B - SIM	09/19/12 15:33	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	09/19/12 18:19	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	09/19/12 18:19	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	09/19/12 18:19	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	09/19/12 18:19	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	09/19/12 18:19	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/19/12 18:19	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	95-47-6	



Analytical Laboratory Report

Lab Sample ID: S53929.02 (continued)

Sample Tag: APC MW-8 S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Styrene	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	09/19/12 18:19	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S53929.03
Sample Tag: APC MW-9 D
Collected Date/Time: 09/17/2012 15:35
Matrix: Groundwater
COC Reference: 69155

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	1,247	ug/L	5	SW8260B - SIM	09/19/12 15:53	WAT	123-91-1	E
1,4-Dioxane (Replicate 01)	1,300	ug/L	100	SW8260B - SIM	09/20/12 16:41	WAT	123-91-1	Y

TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	09/19/12 18:39	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	09/19/12 18:39	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	09/19/12 18:39	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	74-83-9	
Chloroethane	59	ug/L	1	SW8260B	09/19/12 18:39	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	75-69-4	
1,1-Dichloroethene	9	ug/L	1	SW8260B	09/19/12 18:39	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	156-60-5	
1,1-Dichloroethane	29	ug/L	1	SW8260B	09/19/12 18:39	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	09/19/12 18:39	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	09/19/12 18:39	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	79-34-5	

E-Concentration exceeds calibration range

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S53929.03 (continued)

Sample Tag: APC MW-9 D

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/19/12 18:39	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	09/19/12 18:39	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S53929.04
Sample Tag: APC MW-2 D
Collected Date/Time: 09/17/2012 16:45
Matrix: Groundwater
COC Reference: 69155

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	09/19/12 16:13	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	09/19/12 18:59	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	09/19/12 18:59	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	09/19/12 18:59	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	09/19/12 18:59	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	09/19/12 18:59	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/19/12 18:59	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	95-47-6	



Analytical Laboratory Report

Lab Sample ID: S53929.04 (continued)

Sample Tag: APC MW-2 D

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Styrene	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	09/19/12 18:59	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S53929.05
Sample Tag: APC MW-4 S
Collected Date/Time: 09/17/2012 17:40
Matrix: Groundwater
COC Reference: 69155

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	09/19/12 16:33	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	09/20/12 16:59	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	09/20/12 16:59	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	09/20/12 16:59	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	156-60-5	
1,1-Dichloroethane	1	ug/L	1	SW8260B	09/20/12 16:59	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	67-66-3	
1,1,1-Trichloroethane	85	ug/L	1	SW8260B	09/20/12 16:59	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	09/20/12 16:59	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	09/20/12 16:59	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/20/12 16:59	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	95-47-6	



Analytical Laboratory Report

Lab Sample ID: S53929.05 (continued)

Sample Tag: APC MW-4 S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Styrene	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	09/20/12 16:59	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S53929.06
Sample Tag: DUP-1-091712
Collected Date/Time: 09/17/2012 00:01
Matrix: Groundwater
COC Reference: 69155

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	09/19/12 16:53	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	09/20/12 17:19	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	09/20/12 17:19	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	09/20/12 17:19	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	156-60-5	
1,1-Dichloroethane	1	ug/L	1	SW8260B	09/20/12 17:19	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	67-66-3	
1,1,1-Trichloroethane	89	ug/L	1	SW8260B	09/20/12 17:19	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	09/20/12 17:19	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	09/20/12 17:19	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/20/12 17:19	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	95-47-6	



Analytical Laboratory Report

Lab Sample ID: S53929.06 (continued)

Sample Tag: DUP-1-091712

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Styrene	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	09/20/12 17:19	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S53929.07
Sample Tag: APC MW-4 D
Collected Date/Time: 09/17/2012 18:45
Matrix: Groundwater
COC Reference: 69155

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	43	ug/L	5	SW8260B - SIM	09/19/12 17:13	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	09/19/12 19:59	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	09/19/12 19:59	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	09/19/12 19:59	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	74-83-9	
Chloroethane	99	ug/L	1	SW8260B	09/19/12 19:59	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	156-60-5	
1,1-Dichloroethane	2	ug/L	1	SW8260B	09/19/12 19:59	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	09/19/12 19:59	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	09/19/12 19:59	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/19/12 19:59	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	95-47-6	



Analytical Laboratory Report

Lab Sample ID: S53929.07 (continued)

Sample Tag: APC MW-4 D

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Styrene	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	09/19/12 19:59	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S53929.08
Sample Tag: Trip Blank
Collected Date/Time: 09/17/2012 00:01
Matrix: Liquid
COC Reference: 69155

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	n/a	n/a	Yes	n/a	n/a

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
No Analyses	Completed				09/21/12 09:30	TSF		



2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

69155

INVOICE TO

CONTACT NAME				Randy Christensen			
COMPANY				ARCADIS			
ADDRESS							
10559 Citation Drive Suite 100							
CITY						STATE	ZIP CODE
Brighton						MI	48116
PHONE NO.			FAX NO.			P.O. NO.	
810-225-1910						PO 125047	
E-MAIL ADDRESS						QUOTE NO.	
randy.christensen@arcadis-us.com						Task# 5	

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208		E-MAIL ADDRESS dfavero@racertrust.org	

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Lansing Plant 2 Project# B00644 79 2012	SAMPLER(S) - PLEASE PRINT/SIGN NAME
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER _____	
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____	

MATRIX	GW-GROUNDWATER	WW-WASTEWATER	S=SOIL	L=LIQUID	SD=SOLID	# Containers & Preservatives
CODE:	SL=SLUDGE	DW=DRINKING WATER	O=OIL	WP=WIPE	A-AIR W=WASTE	

[illegible][illegible]

RELINQUISHED BY: SIGNATURE/ORGANIZATION:	 / ARCADIS	☒ Sampler	DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION:	Brighton Cold Storage / ARCADIS		9/17/12	1900
RELINQUISHED BY: SIGNATURE/ORGANIZATION:			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION:			9/17/12	2000
RELINQUISHED BY: SIGNATURE/ORGANIZATION:			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION:	 		9/18/12	1700

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL <u>4.8</u>
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev 115 12



Analytical Laboratory Report

Report ID: S54032.01(01)
Generated on 09/28/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S54032.01-S54032.12
Project: Lansing Plant #2 Project# B0064479.2012.00105
Collected Date: 09/25/2012
Submitted Date/Time: 09/26/2012 11:00
Sampled by: Alex Villhauer
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)
Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (12 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S54032.01	SB-A2-PB80_2'-3'	Soil	09/25/2012 13:55
S54032.02	SB-A2-PB80_7'-8'	Soil	09/25/2012 14:00
S54032.03	SB-A2-PB80_10'-14'	Groundwater	09/25/2012 14:30
S54032.04	SB-A2-PB80_15'-16'	Soil	09/25/2012 14:48
S54032.05	SB-A2-PB80_21'-22'	Soil	09/25/2012 14:56
S54032.06	SB-A2-PB80_29'-30'	Soil	09/25/2012 15:09
S54032.07	SB-A2-DUP32	Soil	09/25/2012 00:01
S54032.08	SB-A2-PF80_1'-2'	Soil	09/25/2012 15:20
S54032.09	SB-A2-PF80_6'-7'	Soil	09/25/2012 15:30
S54032.10	SB-A2-PF80_10'-14'	Groundwater	09/25/2012 15:59
S54032.11	SB-A2-PF80_20'-21'	Soil	09/25/2012 16:10
S54032.12	SB-A2-PF80_26'-27'	Soil	09/25/2012 16:19



Analytical Laboratory Report

Lab Sample ID: S54032.01
Sample Tag: SB-A2-PB80_2'-3'
Collected Date/Time: 09/25/2012 13:55
Matrix: Soil
COC Reference: 68749

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR
1	40ml Glass	MeOH	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	88	%	1	Std M 2540 B	09/26/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	76-13-1	
Acetone	Not detected	ug/kg	630	5035/8260B	09/27/12 19:13	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	630	5035/8260B	09/27/12 19:13	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	630	5035/8260B	09/27/12 19:13	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	630	5035/8260B	09/27/12 19:13	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	630	5035/8260B	09/27/12 19:13	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S54032.01 (continued)

Sample Tag: SB-A2-PB80_2'-3'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/27/12 19:13	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/27/12 19:13	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54032.02
Sample Tag: SB-A2-PB80_7'-8'
Collected Date/Time: 09/25/2012 14:00
Matrix: Soil
COC Reference: 68749

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR
1	40ml Glass	MeOH	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	85	%	1	Std M 2540 B	09/26/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	76-13-1	Y
Acetone	Not detected	ug/kg	6,900	5035/8260B	09/28/12 12:03	WAT	67-64-1	Y
Carbon disulfide	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	75-15-0	Y
Methyl Acetate	Not detected	ug/kg	6,900	5035/8260B	09/28/12 12:03	WAT	79-20-9	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	1634-04-4	Y
2-Butanone (MEK)	Not detected	ug/kg	6,900	5035/8260B	09/28/12 12:03	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	75-71-8	Y
Chloromethane	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	75-01-4	Y
Bromomethane	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	74-83-9	Y
Chloroethane	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	156-59-2	Y
Chloroform	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	67-66-3	Y
1,1,1-Trichloroethane	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	71-55-6	Y
Cyclohexane	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	110-82-7	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	6,900	5035/8260B	09/28/12 12:03	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/kg	6,900	5035/8260B	09/28/12 12:03	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	56-23-5	Y
Benzene	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	75-27-4	Y
Methyl cyclohexane	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	108-87-2	Y
cis-1,3-Dichloropropene	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	10061-01-5	Y
Toluene	900	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	127-18-4	Y
Dibromochloromethane	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	124-48-1	Y
1,2-Dibromoethane	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	108-90-7	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S54032.02 (continued)

Sample Tag: SB-A2-PB80_7'-8'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	79-34-5	Y
Ethylbenzene	17,900	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	100-41-4	Y
p,m-Xylene	42,000	ug/kg	1,000	5035/8260B	09/28/12 12:03	WAT		Y
o-Xylene	3,300	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	95-47-6	Y
Styrene	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	100-42-5	Y
Isopropylbenzene	1,900	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	98-82-8	Y
Bromoform	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	75-25-2	Y
1,3-Dichlorobenzene	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	95-50-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/kg	700	5035/8260B	09/28/12 12:03	WAT	120-82-1	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S54032.03
Sample Tag: SB-A2-PB80_10'-14'
Collected Date/Time: 09/25/2012 14:30
Matrix: Groundwater
COC Reference: 68749

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	09/27/12 18:37	WAT	123-91-1	I
1,4-Dioxane (Replicate 01)	Not detected	ug/L	5	SW8260B - SIM	09/27/12 19:17	WAT	123-91-1	I

TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	76-13-1	Y
Acetone	Not detected	ug/L	200	SW8260B	09/27/12 18:20	WAT	67-64-1	Y
Carbon disulfide	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	75-15-0	Y
Methyl Acetate	Not detected	ug/L	200	SW8260B	09/27/12 18:20	WAT	79-20-9	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	1634-04-4	Y
2-Butanone (MEK)	Not detected	ug/L	200	SW8260B	09/27/12 18:20	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	75-01-4	Y
Bromomethane	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	156-59-2	Y
Chloroform	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	67-66-3	Y
1,1,1-Trichloroethane	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	71-55-6	Y
Cyclohexane	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	110-82-7	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	200	SW8260B	09/27/12 18:20	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	200	SW8260B	09/27/12 18:20	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	56-23-5	Y
Benzene	840	ug/L	20	SW8260B	09/27/12 18:20	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	75-27-4	Y
Methyl cyclohexane	30	ug/L	20	SW8260B	09/27/12 18:20	WAT	108-87-2	Y
cis-1,3-Dichloropropene	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	10061-01-5	Y
Toluene	2,940	ug/L	20	SW8260B	09/27/12 18:20	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	127-18-4	Y
Dibromochloromethane	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	124-48-1	Y
Chlorobenzene	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	108-90-7	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	79-34-5	Y

I-Matrix interference with internal standard

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S54032.03 (continued)

Sample Tag: SB-A2-PB80_10'-14'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Ethylbenzene	1,320	ug/L	20	SW8260B	09/27/12 18:20	WAT	100-41-4	Y
p,m-Xylene	1,530	ug/L	40	SW8260B	09/27/12 18:20	WAT		Y
o-Xylene	350	ug/L	20	SW8260B	09/27/12 18:20	WAT	95-47-6	Y
Styrene	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	100-42-5	Y
Isopropylbenzene	50	ug/L	20	SW8260B	09/27/12 18:20	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	75-25-2	Y
1,3-Dichlorobenzene	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	95-50-1	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	120-82-1	Y
1,2-Dibromoethane	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	106-93-4	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	20	SW8260B	09/27/12 18:20	WAT	96-12-8	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S54032.04
Sample Tag: SB-A2-PB80_15'-16'
Collected Date/Time: 09/25/2012 14:48
Matrix: Soil
COC Reference: 68749

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR
1	40ml Glass	MeOH	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	89	%	1	Std M 2540 B	09/26/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	76-13-1	
Acetone	Not detected	ug/kg	600	5035/8260B	09/28/12 11:44	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	600	5035/8260B	09/28/12 11:44	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	600	5035/8260B	09/28/12 11:44	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	600	5035/8260B	09/28/12 11:44	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	600	5035/8260B	09/28/12 11:44	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	56-23-5	
Benzene	3,340	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	10061-01-5	
Toluene	390	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S54032.04 (continued)

Sample Tag: SB-A2-PB80_15'-16'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	90	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	100-41-4	
p,m-Xylene	1,000	ug/kg	100	5035/8260B	09/28/12 11:44	WAT		
o-Xylene	90	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/28/12 11:44	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54032.05
Sample Tag: SB-A2-PB80_21'-22'
Collected Date/Time: 09/25/2012 14:56
Matrix: Soil
COC Reference: 68749

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR
1	40ml Glass	MeOH	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	91	%	1	Std M 2540 B	09/26/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	76-13-1	
Acetone	Not detected	ug/kg	600	5035/8260B	09/27/12 20:08	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	600	5035/8260B	09/27/12 20:08	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	600	5035/8260B	09/27/12 20:08	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	600	5035/8260B	09/27/12 20:08	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	600	5035/8260B	09/27/12 20:08	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S54032.05 (continued)

Sample Tag: SB-A2-PB80_21'-22'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/27/12 20:08	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/27/12 20:08	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54032.06
Sample Tag: SB-A2-PB80_29'-30'
Collected Date/Time: 09/25/2012 15:09
Matrix: Soil
COC Reference: 68749

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR
1	40ml Glass	MeOH	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	96	%	1	Std M 2540 B	09/26/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	76-13-1	
Acetone	Not detected	ug/kg	540	5035/8260B	09/27/12 20:26	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	540	5035/8260B	09/27/12 20:26	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	540	5035/8260B	09/27/12 20:26	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	156-59-2	
Chloroform	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	540	5035/8260B	09/27/12 20:26	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	540	5035/8260B	09/27/12 20:26	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	56-23-5	
Benzene	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	10061-01-5	
Toluene	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S54032.06 (continued)

Sample Tag: SB-A2-PB80_29'-30'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/27/12 20:26	WAT		
o-Xylene	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	95-47-6	
Styrene	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	98-82-8	
Bromoform	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	50	5035/8260B	09/27/12 20:26	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54032.07
Sample Tag: SB-A2-DUP32
Collected Date/Time: 09/25/2012 00:01
Matrix: Soil
COC Reference: 68749

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR
1	40ml Glass	MeOH	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	86	%	1	Std M 2540 B	09/26/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	76-13-1	Y
Acetone	Not detected	ug/kg	6,700	5035/8260B	09/28/12 13:52	WAT	67-64-1	Y
Carbon disulfide	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	75-15-0	Y
Methyl Acetate	Not detected	ug/kg	6,700	5035/8260B	09/28/12 13:52	WAT	79-20-9	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	1634-04-4	Y
2-Butanone (MEK)	Not detected	ug/kg	6,700	5035/8260B	09/28/12 13:52	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	75-71-8	Y
Chloromethane	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	75-01-4	Y
Bromomethane	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	74-83-9	Y
Chloroethane	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	156-59-2	Y
Chloroform	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	67-66-3	Y
1,1,1-Trichloroethane	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	71-55-6	Y
Cyclohexane	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	110-82-7	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	6,700	5035/8260B	09/28/12 13:52	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/kg	6,700	5035/8260B	09/28/12 13:52	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	56-23-5	Y
Benzene	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	75-27-4	Y
Methyl cyclohexane	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	108-87-2	Y
cis-1,3-Dichloropropene	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	10061-01-5	Y
Toluene	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	127-18-4	Y
Dibromochloromethane	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	124-48-1	Y
1,2-Dibromoethane	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	108-90-7	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S54032.07 (continued)

Sample Tag: SB-A2-DUP32

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	79-34-5	Y
Ethylbenzene	23,400	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	100-41-4	Y
p,m-Xylene	46,000	ug/kg	1,000	5035/8260B	09/28/12 13:52	WAT		Y
o-Xylene	1,300	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	95-47-6	Y
Styrene	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	100-42-5	Y
Isopropylbenzene	3,000	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	98-82-8	Y
Bromoform	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	75-25-2	Y
1,3-Dichlorobenzene	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	95-50-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/kg	700	5035/8260B	09/28/12 13:52	WAT	120-82-1	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S54032.08
Sample Tag: SB-A2-PF80_1'-2'
Collected Date/Time: 09/25/2012 15:20
Matrix: Soil
COC Reference: 68749

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR
1	40ml Glass	MeOH	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	84	%	1	Std M 2540 B	09/26/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	76-13-1	
Acetone	Not detected	ug/kg	710	5035/8260B	09/27/12 20:44	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	710	5035/8260B	09/27/12 20:44	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	710	5035/8260B	09/27/12 20:44	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	710	5035/8260B	09/27/12 20:44	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	710	5035/8260B	09/27/12 20:44	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S54032.08 (continued)

Sample Tag: SB-A2-PF80_1'-2'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/27/12 20:44	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/27/12 20:44	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54032.09
Sample Tag: SB-A2-PF80_6'-7'
Collected Date/Time: 09/25/2012 15:30
Matrix: Soil
COC Reference: 68749

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR
1	40ml Glass	MeOH	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	90	%	1	Std M 2540 B	09/26/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	76-13-1	
Acetone	Not detected	ug/kg	660	5035/8260B	09/27/12 21:02	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	660	5035/8260B	09/27/12 21:02	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	660	5035/8260B	09/27/12 21:02	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	660	5035/8260B	09/27/12 21:02	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	660	5035/8260B	09/27/12 21:02	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S54032.09 (continued)

Sample Tag: SB-A2-PF80_6'-7'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/27/12 21:02	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:02	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54032.10
Sample Tag: SB-A2-PF80_10'-14'
Collected Date/Time: 09/25/2012 15:59
Matrix: Groundwater
COC Reference: 68749

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	09/27/12 18:57	WAT	123-91-1	I
1,4-Dioxane (Replicate 01)	Not detected	ug/L	5	SW8260B - SIM	09/27/12 19:37	WAT	123-91-1	I

TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	76-13-1	Y
Acetone	Not detected	ug/L	100	SW8260B	09/27/12 18:00	WAT	67-64-1	Y
Carbon disulfide	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	75-15-0	Y
Methyl Acetate	Not detected	ug/L	100	SW8260B	09/27/12 18:00	WAT	79-20-9	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	1634-04-4	Y
2-Butanone (MEK)	Not detected	ug/L	100	SW8260B	09/27/12 18:00	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	75-01-4	Y
Bromomethane	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	156-59-2	Y
Chloroform	10	ug/L	10	SW8260B	09/27/12 18:00	WAT	67-66-3	Y
1,1,1-Trichloroethane	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	71-55-6	Y
Cyclohexane	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	110-82-7	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	100	SW8260B	09/27/12 18:00	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	100	SW8260B	09/27/12 18:00	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	56-23-5	Y
Benzene	20	ug/L	10	SW8260B	09/27/12 18:00	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	75-27-4	Y
Methyl cyclohexane	50	ug/L	10	SW8260B	09/27/12 18:00	WAT	108-87-2	Y
cis-1,3-Dichloropropene	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	10061-01-5	Y
Toluene	60	ug/L	10	SW8260B	09/27/12 18:00	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	127-18-4	Y
Dibromochloromethane	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	124-48-1	Y
Chlorobenzene	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	108-90-7	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	79-34-5	Y

I-Matrix interference with internal standard

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S54032.10 (continued)

Sample Tag: SB-A2-PF80_10'-14'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Ethylbenzene	180	ug/L	10	SW8260B	09/27/12 18:00	WAT	100-41-4	Y
p,m-Xylene	480	ug/L	20	SW8260B	09/27/12 18:00	WAT		Y
o-Xylene	20	ug/L	10	SW8260B	09/27/12 18:00	WAT	95-47-6	Y
Styrene	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	100-42-5	Y
Isopropylbenzene	40	ug/L	10	SW8260B	09/27/12 18:00	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	75-25-2	Y
1,3-Dichlorobenzene	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	95-50-1	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	120-82-1	Y
1,2-Dibromoethane	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	106-93-4	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	10	SW8260B	09/27/12 18:00	WAT	96-12-8	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S54032.11
Sample Tag: SB-A2-PF80_20'-21'
Collected Date/Time: 09/25/2012 16:10
Matrix: Soil
COC Reference: 68749

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR
1	40ml Glass	MeOH	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	84	%	1	Std M 2540 B	09/26/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	76-13-1	
Acetone	Not detected	ug/kg	680	5035/8260B	09/27/12 21:21	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	680	5035/8260B	09/27/12 21:21	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	680	5035/8260B	09/27/12 21:21	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	680	5035/8260B	09/27/12 21:21	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	680	5035/8260B	09/27/12 21:21	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S54032.11 (continued)

Sample Tag: SB-A2-PF80_20'-21'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/27/12 21:21	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/27/12 21:21	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54032.12
Sample Tag: SB-A2-PF80_26'-27'
Collected Date/Time: 09/25/2012 16:19
Matrix: Soil
COC Reference: 68749

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR
1	40ml Glass	MeOH	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	89	%	1	Std M 2540 B	09/26/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	76-13-1	
Acetone	Not detected	ug/kg	610	5035/8260B	09/28/12 13:34	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	610	5035/8260B	09/28/12 13:34	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	610	5035/8260B	09/28/12 13:34	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	610	5035/8260B	09/28/12 13:34	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	610	5035/8260B	09/28/12 13:34	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S54032.12 (continued)

Sample Tag: SB-A2-PF80_26'-27'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/28/12 13:34	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/28/12 13:34	WAT	120-82-1	

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME **Randy Christensen**
COMPANY **ARCADIS**
ADDRESS **10559 Citation Drive Suite 100**
CITY **Brighton** STATE **MI** ZIP CODE **48116**
PHONE NO. **810-225-1910** FAX NO. **PO 125047**
E-MAIL ADDRESS **randy.christensen@arcadis-us.com** QUOTE NO. **Task# 105**

CONTACT NAME **Dave Favero** ☐ SAME
COMPANY **RACER TRUST**
ADDRESS **2930 Ecorse Road**
CITY **Ypsilanti** STATE **MI** ZIP CODE **48198**
PHONE NO. **313-486-9208** E-MAIL ADDRESS **dfavero@racertrust.org**
ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME **Lansing Plant 2 Project#: B0064479.2012** SAMPLER(S) - PLEASE PRINT/SIGN NAME **Alex Villhaver/Cat**
TURNAROUND TIME REQUIRED ☐ 1 DAY ☒ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW-GROUNDWATER WW-WASTEWATER S-SOIL L-LIQUID SD-SOLID
SL-SLUDGE DW-DRINKING WATER O-OIL WP-WIPE A-AIR W-WASTE

Containers & Preservatives

MERIT LAB NO.	DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO3	H2SO4	MeOH	MROH	OTHER	TCL VOCs (w/Draxone)	TCL SVOCs	PCBs	TAL Metals (w/Hg)	1,4 dioxane (SINS)	Certifications	Project Locations	Special Instructions
54632.01	9/25	13:55	SB-A2-PB80-2'-3'	S	2								X					☐ OHIO VAP ☐ Drinking Water	☐ Detroit ☐ New York	
.02	9/25	14:00	SB-A2-PB80-7'-8'	S	2								X					☐ DoD ☐ NPDES		
.03	9/25	14:30	SB-A2-PB80-10'-14'	GW	2	2							X				X			
.04	9/25	14:48	SB-A2-PB80-18'-16'	S	2								X							
.05	9/25	14:58	SB-A2-PB80-21'-22'	S	2								X							
.06	9/25	15:04	SB-A2-PB80-24'-30'	S	2								X							
.07	9/25	-	SB-A2-DUP32	S	2								X							
.08	9/25	15:20	SB-A2-PF80-1'-2'	S	2								X							
.09	9/25	15:30	SB-A2-PF80-6'-7'	S	2								X							
.10	9/25	15:59	SB-A2-PF80-10'-14'	GW	2	2							X				X			
.11	9/25	16:10	SB-A2-PF80-20'-21'	S	2								X							
.12	9/25	16:19	SB-A2-PF80-26'-27'	S	2								X							

RELINQUISHED BY: **Cat** / **PME** ☒ Sampler DATE **9/25/12** TIME **17:30**
RELINQUISHED BY: **PM Storage** DATE **9/25/12** TIME **17:30**
RELINQUISHED BY: **ON** DATE **9/26/12** TIME **10:30**

RELINQUISHED BY: **SN** DATE **9-26-12** TIME **11:05**
RELINQUISHED BY: **Talisha Faust** DATE **9-26-12** TIME **11:05**
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
NOTES: TEMP. ON ARRIVAL **4.6**



Analytical Laboratory Report

Supplemental Report

Report ID: S54115.01(03)

Generated on 10/10/2012

Replaces report S54115.01(02) generated on 10/08/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S54115.01

Project: Lansing Plant #2 Project# B0064479.2012.00105

Collected Date: 10/03/2012

Submitted Date/Time: 10/04/2012 08:00

Sampled by: Unknown

P.O. #: PO125047

Final results reported.

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

""Not detected"" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Supplemental Report

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S54115.01	MW-12-6-10-03-12	Groundwater	10/03/2012 14:15



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S54115.01

Sample Tag: MW-12-6-10-03-12

Collected Date/Time: 10/03/2012 14:15

Matrix: Groundwater

COC Reference: 68733

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.8	IR
2	40ml Glass	HCL	Yes	4.8	IR
1	125ml Plastic	HNO3	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	10/04/12 19:26	EMR		
Mercury Digestion	Completed			SW7471A	10/05/12 11:30	JRH		
Metal Digestion	Completed			3015A	10/05/12 01:00	SLR		

Metals

Antimony	Not detected	mg/L	0.002	SW6020	10/05/12 15:13	SLS	7440-36-0	
Arsenic	0.008	mg/L	0.002	SW6020	10/05/12 15:13	SLS	7440-38-2	
Barium	0.035	mg/L	0.010	SW6020	10/05/12 15:13	SLS	7440-39-3	
Boron	0.26	mg/L	0.04	SW6020	10/05/12 15:13	SLS	7440-42-8	
Cadmium	Not detected	mg/L	0.001	SW6020	10/05/12 15:13	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.010	SW6020	10/05/12 15:13	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.010	SW6020	10/05/12 15:13	SLS	7440-48-4	
Copper	0.004	mg/L	0.002	SW6020	10/05/12 15:13	SLS	7440-50-8	
Lead	Not detected	mg/L	0.002	SW6020	10/05/12 15:13	SLS	7439-92-1	
Manganese	0.073	mg/L	0.010	SW6020	10/05/12 15:13	SLS	7439-96-5	
Mercury	Not detected	mg/L	0.0001	SW7471A	10/05/12 14:34	JRT	7439-97-6	
Nickel	Not detected	mg/L	0.010	SW6020	10/05/12 15:13	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.002	SW6020	10/05/12 15:13	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0002	SW6020	10/05/12 15:13	SLS	7440-22-4	
Vanadium	Not detected	mg/L	0.002	SW6020	10/05/12 15:13	SLS	7440-62-2	
Zinc	0.013	mg/L	0.010	SW6020	10/05/12 15:13	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	SW8270C	10/05/12 18:04	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	SW8270C	10/05/12 18:04	PL	118-74-1	

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	83-32-9	R
Acenaphthylene	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	208-96-8	R
Acetophenone	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	98-86-2	R
Anthracene	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	120-12-7	R
Atrazine	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	1912-24-9	R
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	92-52-4	R
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	101-55-3	R
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	84-74-2	R
Benzaldehyde	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	100-52-7	R
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	56-55-3	R
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	50-32-8	R
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	205-99-2	R
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	191-24-2	R

R-Preliminary result



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S54115.01 (continued)

Sample Tag: MW-12-6-10-03-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	207-08-9	R
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	85-68-7	R
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	91-58-7	R
2-Chlorophenol	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	95-57-8	R
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	59-50-7	R
4-Chloroaniline	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	106-47-8	R
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	7005-72-3	R
Caprolactam	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	105-60-2	R
Carbazole	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	86-74-8	R
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	111-91-1	R
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	111-44-4	R
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	108-60-1	R
Chrysene	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	218-01-9	R
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	120-83-2	R
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	105-67-9	R
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	51-28-5	R
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	121-14-2	R
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	606-20-2	R
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	534-52-1	R
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	10/08/12 14:12	PL	53-70-3	R
Dibenzofuran	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	132-64-9	R
Diethyl phthalate	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	84-66-2	R
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	131-11-3	R
bis(2-Ethylhexyl)phthalate	1	ug/L	1	SW8270C	10/08/12 14:12	PL	117-81-7	R
Fluoranthene	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	206-44-0	R
Fluorene	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	86-73-7	R
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	87-68-3	R
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	77-47-4	R
Hexachloroethane	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	67-72-1	R
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	193-39-5	R
Isophorone	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	78-59-1	R
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	91-57-6	R
2-Methylphenol	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	95-48-7	R
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	3/4-Cresol	R
2-Nitroaniline	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	88-74-4	R
2-Nitrophenol	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	88-75-5	R
3-Nitroaniline	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	99-09-2	R
4-Nitroaniline	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	100-01-6	R
4-Nitrophenol	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	100-02-7	R
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	621-64-7	R
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	86-30-6	R
Naphthalene	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	91-20-3	R
Nitrobenzene	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	98-95-3	R
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	117-84-0	R
Pentachlorophenol	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	87-86-5	R
Phenanthrene	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	85-01-8	R
Phenol	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	108-95-2	R
Pyrene	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	129-00-0	R

R-Preliminary result



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S54115.01 (continued)

Sample Tag: MW-12-6-10-03-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	95-95-4	R
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	10/08/12 14:12	PL	88-06-2	R
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	98-86-2	
Anthracene	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	120-12-7	
Atrazine	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	10/09/12 19:45	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	78-59-1	

R-Preliminary result



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S54115.01 (continued)

Sample Tag: MW-12-6-10-03-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	10/09/12 19:45	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	10/04/12 18:27	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	10/04/12 20:53	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	10/04/12 20:53	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	10/04/12 20:53	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	10/04/12 20:53	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	10/04/12 20:53	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	107-06-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S54115.01 (continued)

Sample Tag: MW-12-6-10-03-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Trichloroethene	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	10/04/12 20:53	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	10/04/12 20:53	WAT	96-12-8	



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C.O.C. PAGE # _____ OF _____

68733

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME			
Randy Christensen			
COMPANY			
ARCADIS			
ADDRESS			
10559 Citation Drive Suite 100			
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			ZIP CODE
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randy.christensen@arcadis-us.com			Task# 00105

CONTACT NAME		Dave Favero		☐ SAME	
COMPANY		RACER TRUST			
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				ZIP CODE	48198
PHONE NO.		E-MAIL ADDRESS			
313-486-9208		dfavero@racertrust.org			

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Lansing Plant Project# 800644 7/2012	SAMPLER(S) - PLEASE PRINT/SIGN NAME
TURNAROUND TIME REQUIRED ☐ 1 DAY ☒ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER	
DELIVERABLES REQUIRED ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER	

MATRIX	GW=GROUNDWATER	WW=WASTEWATER	S=SOIL	L=LIQUID	SD=SOLID
CODE:	SL=SLUDGE	DW=DRINKING WATER	O=OIL	WP=WIFE	A=AIR
					W=WASTE

Containers & Preservatives[illegible]

RELINQUISHED BY: ROBERT GELICINAB	☒ Sampler	DATE 10/3	TIME 4:33
SIGNATURE/ORGANIZATION [Signature]			
RELINQUISHED BY:		DATE	TIME
SIGNATURE/ORGANIZATION 1			
RELINQUISHED BY:		DATE	TIME
SIGNATURE/ORGANIZATION			
RELINQUISHED BY:		DATE	TIME
SIGNATURE/ORGANIZATION [Signature]		DATE 04/07/12	TIME 0800

RELINQUISHED BY: ALBERT GARCINAO		DATE 10/3	TIME 1730
SIGNATURE/ORGANIZATION ALBERT / ARECAVIS			
RELINQUISHED BY:		DATE 10/3	TIME 1730
SIGNATURE/ORGANIZATION [Signature]			
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 4.8
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



Analytical Laboratory Report

Supplemental Report

Report ID: S54129.01(02)

Generated on 10/10/2012

Replaces report S54129.01(01) generated on 10/08/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S54129.01
Project: Lansing Plant Project# B0064479.2012
Collected Date: 10/04/2012
Submitted Date/Time: 10/04/2012 14:30
Sampled by: Unknown
P.O. #: PO125047

Final results reported.

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)

Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Supplemental Report

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S54129.01	MW-12-5 - 10-04-12	Water	10/04/2012 12:58



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S54129.01
Sample Tag: MW-12-5 - 10-04-12
Collected Date/Time: 10/04/2012 12:58
Matrix: Water
COC Reference: 71201

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.6	IR
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	10/04/12 19:26	EMR		
Mercury Digestion	Completed			SW7471A	10/05/12 11:30	JRH		
Metal Digestion	Completed			3015A	10/05/12 01:00	SLR		

Metals

Antimony	Not detected	mg/L	0.002	SW6020	10/05/12 15:08	SLS	7440-36-0	
Arsenic	0.003	mg/L	0.002	SW6020	10/05/12 15:08	SLS	7440-38-2	
Barium	0.053	mg/L	0.010	SW6020	10/05/12 15:08	SLS	7440-39-3	
Boron	0.07	mg/L	0.04	SW6020	10/05/12 15:08	SLS	7440-42-8	
Cadmium	Not detected	mg/L	0.001	SW6020	10/05/12 15:08	SLS	7440-43-9	
Chromium	0.037	mg/L	0.010	SW6020	10/05/12 15:08	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.010	SW6020	10/05/12 15:08	SLS	7440-48-4	
Copper	0.045	mg/L	0.002	SW6020	10/05/12 15:08	SLS	7440-50-8	
Lead	0.007	mg/L	0.002	SW6020	10/05/12 15:08	SLS	7439-92-1	
Manganese	0.904	mg/L	0.010	SW6020	10/05/12 15:08	SLS	7439-96-5	
Mercury	Not detected	mg/L	0.0001	SW7471A	10/05/12 14:40	JRT	7439-97-6	
Nickel	0.031	mg/L	0.010	SW6020	10/05/12 15:08	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.002	SW6020	10/05/12 15:08	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0002	SW6020	10/05/12 15:08	SLS	7440-22-4	
Vanadium	0.007	mg/L	0.002	SW6020	10/05/12 15:08	SLS	7440-62-2	
Zinc	0.030	mg/L	0.010	SW6020	10/05/12 15:08	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	SW8270C	10/05/12 18:34	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	SW8270C	10/05/12 18:34	PL	118-74-1	

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	83-32-9	R
Acenaphthylene	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	208-96-8	R
Acetophenone	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	98-86-2	R
Anthracene	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	120-12-7	R
Atrazine	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	1912-24-9	R
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	92-52-4	R
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	101-55-3	R
di-n-Butyl phthalate	2	ug/L	1	SW8270C	10/08/12 14:46	PL	84-74-2	R
Benzaldehyde	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	100-52-7	R
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	56-55-3	R
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	50-32-8	R
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	205-99-2	R
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	191-24-2	R

R-Preliminary result



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S54129.01 (continued)

Sample Tag: MW-12-5 - 10-04-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	207-08-9	R
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	85-68-7	R
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	91-58-7	R
2-Chlorophenol	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	95-57-8	R
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	59-50-7	R
4-Chloroaniline	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	106-47-8	R
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	7005-72-3	R
Caprolactam	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	105-60-2	R
Carbazole	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	86-74-8	R
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	111-91-1	R
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	111-44-4	R
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	108-60-1	R
Chrysene	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	218-01-9	R
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	120-83-2	R
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	105-67-9	R
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	51-28-5	R
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	121-14-2	R
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	606-20-2	R
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	534-52-1	R
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	10/08/12 14:46	PL	53-70-3	R
Dibenzofuran	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	132-64-9	R
Diethyl phthalate	1	ug/L	1	SW8270C	10/08/12 14:46	PL	84-66-2	R
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	131-11-3	R
bis(2-Ethylhexyl)phthalate	3	ug/L	1	SW8270C	10/08/12 14:46	PL	117-81-7	R
Fluoranthene	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	206-44-0	R
Fluorene	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	86-73-7	R
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	87-68-3	R
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	77-47-4	R
Hexachloroethane	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	67-72-1	R
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	193-39-5	R
Isophorone	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	78-59-1	R
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	91-57-6	R
2-Methylphenol	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	95-48-7	R
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	3/4-Cresol	R
2-Nitroaniline	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	88-74-4	R
2-Nitrophenol	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	88-75-5	R
3-Nitroaniline	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	99-09-2	R
4-Nitroaniline	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	100-01-6	R
4-Nitrophenol	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	100-02-7	R
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	621-64-7	R
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	86-30-6	R
Naphthalene	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	91-20-3	R
Nitrobenzene	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	98-95-3	R
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	117-84-0	R
Pentachlorophenol	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	87-86-5	R
Phenanthrene	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	85-01-8	R
Phenol	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	108-95-2	R
Pyrene	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	129-00-0	R

R-Preliminary result



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S54129.01 (continued)

Sample Tag: MW-12-5 - 10-04-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	95-95-4	R
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	10/08/12 14:46	PL	88-06-2	R
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	98-86-2	
Anthracene	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	120-12-7	
Atrazine	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	101-55-3	
di-n-Butyl phthalate	2	ug/L	1	SW8270C	10/09/12 20:19	PL	84-74-2	B
Benzaldehyde	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	10/09/12 20:19	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	132-64-9	
Diethyl phthalate	1	ug/L	1	SW8270C	10/09/12 20:19	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	3	ug/L	1	SW8270C	10/09/12 20:19	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	193-39-5	

R-Preliminary result

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S54129.01 (continued)

Sample Tag: MW-12-5 - 10-04-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
Isophorone	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	10/09/12 20:19	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	10/05/12 14:48	JGH	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	10/05/12 15:26	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	10/05/12 15:26	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	10/05/12 15:26	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	10/05/12 15:26	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	10/05/12 15:26	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	71-43-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S54129.01 (continued)

Sample Tag: MW-12-5 - 10-04-12

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	10/05/12 15:26	JGH		
o-Xylene	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	10/05/12 15:26	JGH	96-12-8	



71201

INVOICE TO

CONTACT NAME Dave Favero		☐ SAME	
COMPANY Racer trust			
ADDRESS 2930 Ecorse Rd			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208		E-MAIL ADDRESS	
ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)			

VOC S VOC (ref) (w/ Hy)	Certifications ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES Project Locations ☐ Detroit ☐ New York ☐ Other _____ Special Instructions
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RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
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RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS

NOTES: TEMP. ON ARRIVAL _____

 DATE TIME
 10-4-12 173

Rev. 1.15.12



Analytical Laboratory Report

Report ID: S54264.01(01)
Generated on 10/22/2012

Report to

Attention: Randy Christensen
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:

Andy Ball (andyball@meritlabs.com)
Tabitha Faust (tfaust@meritlabs.com)

Report Summary

Lab Sample ID(s): S54264.01-S54264.02
Project: RACER LANSING B0064479.2012.00105
Collected Date: 10/16/2012
Submitted Date/Time: 10/16/2012 17:35
Sampled by: P. Curry
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (2 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S54264.01	MW-12-05	Groundwater	10/16/2012 14:30
S54264.02	MW-12-06	Groundwater	10/16/2012 16:50



Analytical Laboratory Report

Lab Sample ID: S54264.01
Sample Tag: MW-12-05
Collected Date/Time: 10/16/2012 14:30
Matrix: Groundwater
COC Reference: 71228

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.6	IR
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	10/18/12 20:51	EMR		
Mercury Digestion	Completed			SW7471A	10/19/12 12:15	JRH		
Metal Digestion	Completed			3015A	10/19/12 01:00	SLR		

Metals

Antimony	Not detected	mg/L	0.002	SW6020	10/19/12 15:52	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	SW6020	10/19/12 15:52	SLS	7440-38-2	
Barium	0.034	mg/L	0.010	SW6020	10/19/12 15:52	SLS	7440-39-3	
Boron	0.05	mg/L	0.04	SW6020	10/19/12 17:30	SLS	7440-42-8	
Cadmium	Not detected	mg/L	0.001	SW6020	10/19/12 15:52	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.010	SW6020	10/19/12 15:52	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.010	SW6020	10/19/12 15:52	SLS	7440-48-4	
Copper	Not detected	mg/L	0.002	SW6020	10/19/12 15:52	SLS	7440-50-8	
Lead	0.002	mg/L	0.002	SW6020	10/19/12 15:52	SLS	7439-92-1	
Manganese	0.103	mg/L	0.010	SW6020	10/19/12 15:52	SLS	7439-96-5	
Mercury	Not detected	mg/L	0.0001	SW7471A	10/19/12 15:14	JRT	7439-97-6	
Nickel	0.012	mg/L	0.010	SW6020	10/19/12 15:52	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.002	SW6020	10/19/12 15:52	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0002	SW6020	10/19/12 15:52	SLS	7440-22-4	
Vanadium	Not detected	mg/L	0.002	SW6020	10/19/12 15:52	SLS	7440-62-2	
Zinc	0.060	mg/L	0.010	SW6020	10/19/12 15:52	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	SW8270C	10/19/12 16:11	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	SW8270C	10/19/12 16:11	PL	118-74-1	

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	98-86-2	
Anthracene	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	120-12-7	
Atrazine	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S54264.01 (continued)

Sample Tag: MW-12-05

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	7005-72-3	
Caprolactam	2	ug/L	1	SW8270C	10/19/12 21:04	PL	105-60-2	B
Carbazole	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	10/19/12 21:04	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	SW8270C	10/19/12 21:04	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	1	ug/L	1	SW8270C	10/19/12 21:04	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	95-95-4	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S54264.01 (continued)

Sample Tag: MW-12-05

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	10/19/12 21:04	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	10/18/12 18:17	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	10/17/12 15:42	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	10/17/12 15:42	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	10/17/12 15:42	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	10/17/12 15:42	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	10/17/12 15:42	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	10/17/12 15:42	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	75-25-2	



Analytical Laboratory Report

Lab Sample ID: S54264.01 (continued)

Sample Tag: MW-12-05

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	10/17/12 15:42	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S54264.02
Sample Tag: MW-12-06
Collected Date/Time: 10/16/2012 16:50
Matrix: Groundwater
COC Reference: 71228

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.6	IR
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	10/18/12 20:51	EMR		
Mercury Digestion	Completed			SW7471A	10/19/12 12:15	JRH		
Metal Digestion	Completed			3015A	10/19/12 01:00	SLR		

Metals

Antimony	Not detected	mg/L	0.002	SW6020	10/19/12 15:56	SLS	7440-36-0	
Arsenic	0.006	mg/L	0.002	SW6020	10/19/12 15:56	SLS	7440-38-2	
Barium	0.049	mg/L	0.010	SW6020	10/19/12 15:56	SLS	7440-39-3	
Boron	0.18	mg/L	0.04	SW6020	10/19/12 17:33	SLS	7440-42-8	
Cadmium	Not detected	mg/L	0.001	SW6020	10/19/12 15:56	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.010	SW6020	10/19/12 15:56	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.010	SW6020	10/19/12 15:56	SLS	7440-48-4	
Copper	Not detected	mg/L	0.002	SW6020	10/19/12 15:56	SLS	7440-50-8	
Lead	Not detected	mg/L	0.002	SW6020	10/19/12 15:56	SLS	7439-92-1	
Manganese	0.049	mg/L	0.010	SW6020	10/19/12 15:56	SLS	7439-96-5	
Mercury	Not detected	mg/L	0.0001	SW7471A	10/19/12 15:16	JRT	7439-97-6	
Nickel	Not detected	mg/L	0.010	SW6020	10/19/12 15:56	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.002	SW6020	10/19/12 15:56	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0002	SW6020	10/19/12 15:56	SLS	7440-22-4	
Vanadium	Not detected	mg/L	0.002	SW6020	10/19/12 15:56	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.010	SW6020	10/19/12 15:56	SLS	7440-66-6	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.05	SW8270C	10/19/12 16:41	PL	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.05	SW8270C	10/19/12 16:41	PL	118-74-1	

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	98-86-2	
Anthracene	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	120-12-7	
Atrazine	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S54264.02 (continued)

Sample Tag: MW-12-06

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	7005-72-3	
Caprolactam	2	ug/L	1	SW8270C	10/19/12 21:39	PL	105-60-2	B
Carbazole	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	10/19/12 21:39	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	SW8270C	10/19/12 21:39	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	95-95-4	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S54264.02 (continued)

Sample Tag: MW-12-06

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	10/19/12 21:39	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	10/18/12 18:35	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	10/17/12 16:02	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	10/17/12 16:02	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	10/17/12 16:02	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	10/17/12 16:02	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	10/17/12 16:02	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	10/17/12 16:02	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	75-25-2	



Analytical Laboratory Report

Lab Sample ID: S54264.02 (continued)

Sample Tag: MW-12-06

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	10/17/12 16:02	WAT	96-12-8	



Analytical Laboratory Report

Report ID: S54495.01(01)
Generated on 11/13/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:

Andy Ball (andyball@meritlabs.com)
Tabitha Faust (tfaust@meritlabs.com)

Report Summary

Lab Sample ID(s): S54495.01
Project: B0064479.2012.00105 Lansing Plant 2
Collected Date: 11/06/2012
Submitted Date/Time: 11/06/2012 15:35
Sampled by: Unknown
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S54495.01	P2-MH-NW	Groundwater	11/06/2012 11:45



Analytical Laboratory Report

Lab Sample ID: S54495.01
Sample Tag: P2-MH-NW
Collected Date/Time: 11/06/2012 11:45
Matrix: Groundwater
COC Reference: 71392

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	1L Amber	None	Yes	4.6	IR
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	11/08/12 20:23	EMR		
Extraction, PCB	Completed			3510C	11/07/12 13:00	CCM		
Mercury Digestion	Completed			SW7471A	11/07/12 10:30	JRH		
Metal Digestion	Completed			3015A	11/09/12 01:00	SLR		

Metals

Antimony	Not detected	mg/L	0.002	SW6020	11/09/12 14:46	SLS	7440-36-0	
Arsenic	0.007	mg/L	0.001	SW6020	11/09/12 14:46	SLS	7440-38-2	
Barium	0.06	mg/L	0.01	SW6020	11/09/12 14:46	SLS	7440-39-3	
Boron	0.33	mg/L	0.04	SW6020	11/12/12 14:03	SLS	7440-42-8	
Cadmium	Not detected	mg/L	0.001	SW6020	11/09/12 14:46	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.002	SW6020	11/09/12 14:46	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.002	SW6020	11/09/12 14:46	SLS	7440-48-4	
Copper	0.003	mg/L	0.002	SW6020	11/09/12 14:46	SLS	7440-50-8	
Lead	0.003	mg/L	0.002	SW6020	11/09/12 14:46	SLS	7439-92-1	
Manganese	0.032	mg/L	0.002	SW6020	11/09/12 14:46	SLS	7439-96-5	
Mercury	Not detected	mg/L	0.0001	SW7471A	11/07/12 15:00	JRT	7439-97-6	
Nickel	0.003	mg/L	0.002	SW6020	11/09/12 14:46	SLS	7440-02-0	
Selenium	0.001	mg/L	0.001	SW6020	11/12/12 15:35	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0002	SW6020	11/09/12 14:46	SLS	7440-22-4	
Vanadium	Not detected	mg/L	0.002	SW6020	11/09/12 14:46	SLS	7440-62-2	
Zinc	0.02	mg/L	0.01	SW6020	11/09/12 14:46	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/L	0.05	SW8082A	11/08/12 12:04	JAN	12674-11-2	
PCB-1242	Not detected	ug/L	0.1	SW8082A	11/08/12 12:04	JAN	53469-21-9	
PCB-1221	Not detected	ug/L	0.1	SW8082A	11/08/12 12:04	JAN	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	SW8082A	11/08/12 12:04	JAN	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	SW8082A	11/08/12 12:04	JAN	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	SW8082A	11/08/12 12:04	JAN	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	SW8082A	11/08/12 12:04	JAN	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	1	SW8270C	11/09/12 16:18	JGH	91-94-1	
Hexachlorobenzene	Not detected	ug/L	1	SW8270C	11/09/12 16:18	JGH	118-74-1	

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S54495.01 (continued)

Sample Tag: P2-MH-NW

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	120-12-7	
Atrazine	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	11/09/12 16:18	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	100-02-7	



Analytical Laboratory Report

Lab Sample ID: S54495.01 (continued)

Sample Tag: P2-MH-NW

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 16:18	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	25	ug/L	5	SW8260B - SIM	11/07/12 16:55	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	11/07/12 19:32	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	11/07/12 19:32	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	11/07/12 19:32	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	156-60-5	
1,1-Dichloroethane	1	ug/L	1	SW8260B	11/07/12 19:32	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	11/07/12 19:32	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	11/07/12 19:32	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	79-00-5	



Analytical Laboratory Report

Lab Sample ID: S54495.01 (continued)

Sample Tag: P2-MH-NW

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Tetrachloroethene	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	11/07/12 19:32	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	11/07/12 19:32	WAT	96-12-8	

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME				RANDY CHRISTENSEN			
COMPANY				ARCADIS			
ADDRESS							
CITY						STATE	ZIP CODE
BRIGHTON							
PHONE NO.			FAX NO.			P.O. NO.	
810 225 1940						PO BOX 125047	
E-MAIL ADDRESS						QUOTE NO.	

CONTACT NAME		SAME	
COMPANY			
ADDRESS			
CITY		STATE	ZIP CODE
PHONE NO.		E-MAIL ADDRESS	

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME B0064779.2012.CO165	SAMPLER(S) - PLEASE PRINT/SIGN NAME
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER	
DELIVERABLES REQUIRED ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER	

MATRIX CODE:	GW=GROUNDWATER SL=SLUDGE	WW=WASTEWATER DW=DRINKING WATER	S=SOIL O=OIL	L=LIQUID WP=WIPE	SD=SOLID A=AIR W=WASTE	# Containers & Preservatives
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[illegible][illegible]

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☐ Sampler	DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION		11.6.12		DATE	15:35	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION		11.6.12		DATE	15:35	TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES:	TEMP. ON ARRIVAL	5.0	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS				

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



Analytical Laboratory Report

Report ID: S54507.01(01)
Generated on 11/13/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:

Andy Ball (andyball@meritlabs.com)
Tabitha Faust (tfaust@meritlabs.com)

Report Summary

Lab Sample ID(s): S54507.01-S54507.04
Project: RACER LANSING B0064479.2012.0015
Collected Date: 11/07/2012
Submitted Date/Time: 11/07/2012 14:32
Sampled by: Unknown
P.O. #: PO125049

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (4 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S54507.01	P3-MH-NE	Groundwater	11/07/2012 11:30
S54507.02	P2 Outfall11 @P3	Groundwater	11/07/2012 13:00
S54507.03	P3-MH-3	Groundwater	11/07/2012 13:50
S54507.04	P6-MH-NE	Groundwater	11/07/2012 12:30



Analytical Laboratory Report

Lab Sample ID: S54507.01
Sample Tag: P3-MH-NE
Collected Date/Time: 11/07/2012 11:30
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	1L Amber	None	Yes	4.6	IR
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	11/08/12 20:23	EMR		
Extraction, PCB	Completed			3510C	11/13/12 10:30	CCM		
Mercury Digestion	Completed			SW7471A	11/12/12 09:30	JRH		
Metal Digestion	Completed			3015A	11/09/12 01:00	SLR		

Metals

Antimony	Not detected	mg/L	0.002	SW6020	11/09/12 14:16	SLS	7440-36-0	
Arsenic	0.005	mg/L	0.001	SW6020	11/09/12 14:16	SLS	7440-38-2	
Barium	0.14	mg/L	0.01	SW6020	11/09/12 14:16	SLS	7440-39-3	
Boron	0.33	mg/L	0.04	SW6020	11/12/12 13:52	SLS	7440-42-8	
Cadmium	Not detected	mg/L	0.001	SW6020	11/09/12 14:16	SLS	7440-43-9	
Chromium	0.012	mg/L	0.002	SW6020	11/09/12 14:16	SLS	7440-47-3	
Cobalt	0.006	mg/L	0.002	SW6020	11/09/12 14:16	SLS	7440-48-4	
Copper	0.052	mg/L	0.002	SW6020	11/09/12 14:16	SLS	7440-50-8	
Lead	0.039	mg/L	0.002	SW6020	11/09/12 14:16	SLS	7439-92-1	
Manganese	0.884	mg/L	0.002	SW6020	11/09/12 14:16	SLS	7439-96-5	
Mercury	Not detected	mg/L	0.0001	SW7471A	11/12/12 14:55	JRT	7439-97-6	
Nickel	0.043	mg/L	0.002	SW6020	11/09/12 14:16	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.001	SW6020	11/12/12 15:21	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0002	SW6020	11/09/12 14:16	SLS	7440-22-4	
Vanadium	0.011	mg/L	0.002	SW6020	11/09/12 14:16	SLS	7440-62-2	
Zinc	0.28	mg/L	0.01	SW6020	11/09/12 14:16	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/L	0.05	SW8082A	11/13/12 14:01	JAN	12674-11-2	
PCB-1242	Not detected	ug/L	0.1	SW8082A	11/13/12 14:01	JAN	53469-21-9	
PCB-1221	Not detected	ug/L	0.1	SW8082A	11/13/12 14:01	JAN	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	SW8082A	11/13/12 14:01	JAN	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	SW8082A	11/13/12 14:01	JAN	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	SW8082A	11/13/12 14:01	JAN	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	SW8082A	11/13/12 14:01	JAN	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.06	SW8270C	11/12/12 18:19	JGH	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.06	SW8270C	11/12/12 18:19	JGH	118-74-1	

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S54507.01 (continued)

Sample Tag: P3-MH-NE

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	120-12-7	
Atrazine	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	11/09/12 17:57	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	SW8270C	11/09/12 17:57	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	100-02-7	



Analytical Laboratory Report

Lab Sample ID: S54507.01 (continued)

Sample Tag: P3-MH-NE

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 17:57	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	11/07/12 19:20	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	11/07/12 21:33	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	11/07/12 21:33	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	11/07/12 21:33	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	11/07/12 21:33	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	11/07/12 21:33	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	79-00-5	



Analytical Laboratory Report

Lab Sample ID: S54507.01 (continued)

Sample Tag: P3-MH-NE

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Tetrachloroethene	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	11/07/12 21:33	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	11/07/12 21:33	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S54507.02
Sample Tag: P2 Outfall11 @P3
Collected Date/Time: 11/07/2012 13:00
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	1L Amber	None	Yes	4.6	IR
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	11/08/12 20:23	EMR		
Extraction, PCB	Completed			3510C	11/13/12 10:30	CCM		
Mercury Digestion	Completed			SW7471A	11/12/12 09:30	JRH		
Metal Digestion	Completed			3015A	11/09/12 01:00	SLR		

Metals

Antimony	Not detected	mg/L	0.002	SW6020	11/09/12 14:21	SLS	7440-36-0	
Arsenic	0.003	mg/L	0.001	SW6020	11/09/12 14:21	SLS	7440-38-2	
Barium	0.10	mg/L	0.01	SW6020	11/09/12 14:21	SLS	7440-39-3	
Boron	0.25	mg/L	0.04	SW6020	11/12/12 13:55	SLS	7440-42-8	
Cadmium	Not detected	mg/L	0.001	SW6020	11/09/12 14:21	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.002	SW6020	11/09/12 14:21	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.002	SW6020	11/09/12 14:21	SLS	7440-48-4	
Copper	0.003	mg/L	0.002	SW6020	11/09/12 14:21	SLS	7440-50-8	
Lead	0.004	mg/L	0.002	SW6020	11/09/12 14:21	SLS	7439-92-1	
Manganese	0.043	mg/L	0.002	SW6020	11/09/12 14:21	SLS	7439-96-5	
Mercury	Not detected	mg/L	0.0001	SW7471A	11/12/12 14:57	JRT	7439-97-6	
Nickel	0.002	mg/L	0.002	SW6020	11/09/12 14:21	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.001	SW6020	11/12/12 15:23	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0002	SW6020	11/09/12 14:21	SLS	7440-22-4	
Vanadium	Not detected	mg/L	0.002	SW6020	11/09/12 14:21	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.01	SW6020	11/09/12 14:21	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/L	0.05	SW8082A	11/13/12 14:12	JAN	12674-11-2	
PCB-1242	Not detected	ug/L	0.1	SW8082A	11/13/12 14:12	JAN	53469-21-9	
PCB-1221	Not detected	ug/L	0.1	SW8082A	11/13/12 14:12	JAN	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	SW8082A	11/13/12 14:12	JAN	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	SW8082A	11/13/12 14:12	JAN	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	SW8082A	11/13/12 14:12	JAN	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	SW8082A	11/13/12 14:12	JAN	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.06	SW8270C	11/12/12 18:48	JGH	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.06	SW8270C	11/12/12 18:48	JGH	118-74-1	

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S54507.02 (continued)

Sample Tag: P2 Outfall11 @P3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Anthracene	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	120-12-7	
Atrazine	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	11/09/12 18:30	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	SW8270C	11/09/12 18:30	PL	84-66-2	
Dimethyl phthalate	3	ug/L	1	SW8270C	11/09/12 18:30	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	100-01-6	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S54507.02 (continued)

Sample Tag: P2 Outfall11 @P3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
4-Nitrophenol	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 18:30	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	17	ug/L	5	SW8260B - SIM	11/07/12 17:31	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	11/07/12 21:54	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	11/07/12 21:54	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	11/07/12 21:54	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	11/07/12 21:54	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	11/07/12 21:54	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	10061-02-6	



Analytical Laboratory Report

Lab Sample ID: S54507.02 (continued)

Sample Tag: P2 Outfall11 @P3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	11/07/12 21:54	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	11/07/12 21:54	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S54507.03
Sample Tag: P3-MH-3
Collected Date/Time: 11/07/2012 13:50
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	1L Amber	None	Yes	4.6	IR
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	11/08/12 20:23	EMR		
Extraction, PCB	Completed			3510C	11/13/12 10:30	CCM		
Mercury Digestion	Completed			SW7471A	11/12/12 09:30	JRH		
Metal Digestion	Completed			3015A	11/09/12 01:00	SLR		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	SW6020	11/09/12 14:25	SLS	7440-36-0	
Arsenic, Dissolved	0.002	mg/L	0.001	SW6020	11/09/12 14:25	SLS	7440-38-2	
Barium, Dissolved	0.16	mg/L	0.01	SW6020	11/09/12 14:25	SLS	7440-39-3	
Boron, Dissolved	0.12	mg/L	0.04	SW6020	11/12/12 13:58	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	SW6020	11/09/12 14:25	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.002	SW6020	11/09/12 14:25	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.002	SW6020	11/09/12 14:25	SLS	7440-48-4	
Copper, Dissolved	0.002	mg/L	0.002	SW6020	11/09/12 14:25	SLS	7440-50-8	
Lead, Dissolved	0.003	mg/L	0.002	SW6020	11/09/12 14:25	SLS	7439-92-1	
Manganese, Dissolved	0.136	mg/L	0.002	SW6020	11/09/12 14:25	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	SW7471A	11/12/12 14:59	JRT	7439-97-6	
Nickel, Dissolved	0.004	mg/L	0.002	SW6020	11/09/12 14:25	SLS	7440-02-0	
Selenium, Dissolved	0.001	mg/L	0.001	SW6020	11/12/12 15:25	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	SW6020	11/09/12 14:25	SLS	7440-22-4	
Vanadium, Dissolved	Not detected	mg/L	0.002	SW6020	11/09/12 14:25	SLS	7440-62-2	
Zinc, Dissolved	0.02	mg/L	0.01	SW6020	11/09/12 14:25	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/L	0.05	SW8082A	11/13/12 14:22	JAN	12674-11-2	
PCB-1242	Not detected	ug/L	0.1	SW8082A	11/13/12 14:22	JAN	53469-21-9	
PCB-1221	Not detected	ug/L	0.1	SW8082A	11/13/12 14:22	JAN	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	SW8082A	11/13/12 14:22	JAN	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	SW8082A	11/13/12 14:22	JAN	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	SW8082A	11/13/12 14:22	JAN	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	SW8082A	11/13/12 14:22	JAN	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.06	SW8270C	11/12/12 19:18	JGH	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.06	SW8270C	11/12/12 19:18	JGH	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S54507.03 (continued)

Sample Tag: P3-MH-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Anthracene	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	120-12-7	
Atrazine	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	11/09/12 19:03	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	SW8270C	11/09/12 19:03	PL	84-66-2	
Dimethyl phthalate	3	ug/L	1	SW8270C	11/09/12 19:03	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	100-01-6	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S54507.03 (continued)

Sample Tag: P3-MH-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
4-Nitrophenol	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 19:03	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	11/07/12 17:49	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	11/07/12 22:14	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	11/07/12 22:14	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	11/07/12 22:14	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	11/07/12 22:14	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	11/07/12 22:14	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	10061-02-6	



Analytical Laboratory Report

Lab Sample ID: S54507.03 (continued)

Sample Tag: P3-MH-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	11/07/12 22:14	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	11/07/12 22:14	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S54507.04
Sample Tag: P6-MH-NE
Collected Date/Time: 11/07/2012 12:30
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	1L Amber	None	Yes	4.6	IR
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	11/08/12 20:23	EMR		
Extraction, PCB	Completed			3510C	11/13/12 10:30	CCM		
Mercury Digestion	Completed			SW7471A	11/12/12 09:30	JRH		
Metal Digestion	Completed			3015A	11/09/12 01:00	SLR		

Metals

Antimony, Dissolved	0.004	mg/L	0.002	SW6020	11/09/12 14:29	SLS	7440-36-0	
Arsenic, Dissolved	0.009	mg/L	0.001	SW6020	11/09/12 14:29	SLS	7440-38-2	
Barium, Dissolved	0.18	mg/L	0.01	SW6020	11/09/12 14:29	SLS	7440-39-3	
Boron, Dissolved	0.16	mg/L	0.04	SW6020	11/12/12 14:01	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	SW6020	11/09/12 14:29	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.002	SW6020	11/09/12 14:29	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.002	SW6020	11/09/12 14:29	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	SW6020	11/09/12 14:29	SLS	7440-50-8	
Lead, Dissolved	0.003	mg/L	0.002	SW6020	11/09/12 14:29	SLS	7439-92-1	
Manganese, Dissolved	0.386	mg/L	0.002	SW6020	11/09/12 14:29	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	SW7471A	11/12/12 15:01	JRT	7439-97-6	
Nickel, Dissolved	0.003	mg/L	0.002	SW6020	11/09/12 14:29	SLS	7440-02-0	
Selenium, Dissolved	0.001	mg/L	0.001	SW6020	11/12/12 15:28	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	SW6020	11/09/12 14:29	SLS	7440-22-4	
Vanadium, Dissolved	0.004	mg/L	0.002	SW6020	11/09/12 14:29	SLS	7440-62-2	
Zinc, Dissolved	0.03	mg/L	0.01	SW6020	11/09/12 14:29	SLS	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/L	0.05	SW8082A	11/13/12 14:33	JAN	12674-11-2	
PCB-1242	Not detected	ug/L	0.1	SW8082A	11/13/12 14:33	JAN	53469-21-9	
PCB-1221	Not detected	ug/L	0.1	SW8082A	11/13/12 14:33	JAN	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	SW8082A	11/13/12 14:33	JAN	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	SW8082A	11/13/12 14:33	JAN	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	SW8082A	11/13/12 14:33	JAN	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	SW8082A	11/13/12 14:33	JAN	11096-82-5	

Organics - Semi-Volatiles

3,3'-Dichlorobenzidine	Not detected	ug/L	0.06	SW8270C	11/12/12 19:47	JGH	91-94-1	
Hexachlorobenzene	Not detected	ug/L	0.06	SW8270C	11/12/12 19:47	JGH	118-74-1	

TCL Semi-Volatile Organics, Dissolved

Acenaphthene	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	98-86-2	



Analytical Laboratory Report

Lab Sample ID: S54507.04 (continued)

Sample Tag: P6-MH-NE

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Anthracene	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	120-12-7	
Atrazine	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	101-55-3	
di-n-Butyl phthalate	2	ug/L	1	SW8270C	11/09/12 19:36	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	11/09/12 19:36	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	SW8270C	11/09/12 19:36	PL	84-66-2	
Dimethyl phthalate	8	ug/L	1	SW8270C	11/09/12 19:36	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	1	ug/L	1	SW8270C	11/09/12 19:36	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	100-01-6	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S54507.04 (continued)

Sample Tag: P6-MH-NE

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
4-Nitrophenol	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	11/09/12 19:36	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	11/07/12 18:07	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	11/07/12 22:34	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	11/07/12 22:34	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	11/07/12 22:34	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	75-34-3	
cis-1,2-Dichloroethene	1	ug/L	1	SW8260B	11/07/12 22:34	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	11/07/12 22:34	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	11/07/12 22:34	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	10061-02-6	



Analytical Laboratory Report

Lab Sample ID: S54507.04 (continued)

Sample Tag: P6-MH-NE

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	11/07/12 22:34	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	11/07/12 22:34	WAT	96-12-8	

ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 2 of

Lab Work Order #

Send Results to:	Contact & Company Name: ARCADIS		Telephone: 810 225 1940		Preservative: HCl		HNO₃														
	Address: RANDY CHRISTENSEN		Fax: PO# 0136504		Filtered (✓)																
	City: BRIGHTON · MI		State: MI		Zip: 		# of Containers: 2		2		1		1								
	E-mail Address: RANDY.CHRISTENSEN@ARCADISUS.COM		Project Name/Location (City, State): RACER LANSING		Project #: B0064481-2012-00105		Container Information														
Sampler's Printed Name: RANDY CHRISTENSEN		Sampler's Signature: 		PARAMETER ANALYSIS & METHOD																	
Sample ID		Collection		Type (✓)		Matrix		TEL VOC C+H+D w/MS TEL SHOC TAI METALS PEB													
		Date	Time	Comp	Grab																
54507 .04 P6-MH-NE		11.7.12	1230					✓	✓	✓	✓										

Special Instructions/Comments: **STANDARD TAT**

Special QA/QC Instructions(✓): **LEVEL II**

Laboratory Information and Receipt		Relinquished By	Received By	Relinquished By	Laboratory Received By
Lab Name:	Cooler Custody Seal (✓)	Printed Name: RANDY CHRISTENSEN	Printed Name:	Printed Name:	Printed Name: Andrew Ball
☐ Cooler packed with ice (✓)	☐ Intact ☐ Not Intact	Signature: [Signature]	Signature:	Signature:	Signature: [Signature]
Specify Turnaround Requirements:	Sample Receipt:	Firm: AUS	Firm/Courier:	Firm/Courier:	Firm: Me II
Shipping Tracking #:	Condition/Cooler Temp: 6.0	Date/Time: 11.7.12 1433	Date/Time:	Date/Time:	Date/Time: 07NOV12 1433



Analytical Laboratory Report

Report ID: S54512.01(01)
Generated on 11/12/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:

Andy Ball (andyball@meritlabs.com)
Tabitha Faust (tfaust@meritlabs.com)

Report Summary

Lab Sample ID(s): S54512.01-S54512.06, S54512.08-S54512.16
Project: Lansing Plant 2 Project#: B0064479.2012
Collected Date: 11/07/2012
Submitted Date/Time: 11/08/2012 10:10
Sampled by: Alex Villhauer
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (15 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S54512.01	SB-A2-OB52_11'-15'	Groundwater	11/07/2012 13:40
S54512.02	SB-A2-DUP4	Groundwater	11/07/2012 00:01
S54512.03	SB-A2-OU52_2'-3'	Soil	11/07/2012 14:27
S54512.04	SB-A2-OU52_7'-8'	Soil	11/07/2012 14:35
S54512.05	SB-A2-OU52_13'-14'	Soil	11/07/2012 14:40
S54512.06	SB-A2-OU52_18'-19'	Soil	11/07/2012 14:45
S54512.08	SB-A2-OU52_15'-19'	Groundwater	11/07/2012 14:48
S54512.09	SB-A2-OU52_24'-25'	Soil	11/07/2012 14:51
S54512.10	SB-A2-OU52_29'-30'	Soil	11/07/2012 15:00
S54512.11	SB-A2-OY52_3'-4'	Soil	11/07/2012 15:54
S54512.12	SB-A2-OY52_7'-8'	Soil	11/07/2012 16:20
S54512.13	SB-A2-OY52_12'-13'	Soil	11/07/2012 16:29
S54512.14	SB-A2-OY52_20'-21'	Soil	11/07/2012 16:35
S54512.15	SB-A2-OY52_25'-26'	Soil	11/07/2012 16:42
S54512.16	SB-A2-OY52_29'-30'	Soil	11/07/2012 16:50



Analytical Laboratory Report

Lab Sample ID: S54512.01
Sample Tag: SB-A2-OB52_11'-15'
Collected Date/Time: 11/07/2012 13:40
Matrix: Groundwater
COC Reference: 68763

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	11/08/12 14:47	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	76-13-1	
Acetone	13	ug/L	10	SW8260B	11/08/12 15:38	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	11/08/12 15:38	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	11/08/12 15:38	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	11/08/12 15:38	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	11/08/12 15:38	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	11/08/12 15:38	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	95-47-6	



Analytical Laboratory Report

Lab Sample ID: S54512.01 (continued)

Sample Tag: SB-A2-OB52_11'-15'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Styrene	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	11/08/12 15:38	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S54512.02
Sample Tag: SB-A2-DUP4
Collected Date/Time: 11/07/2012 00:01
Matrix: Groundwater
COC Reference: 68763

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	11/08/12 15:05	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	76-13-1	
Acetone	16	ug/L	10	SW8260B	11/08/12 15:58	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	11/08/12 15:58	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	11/08/12 15:58	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	11/08/12 15:58	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	11/08/12 15:58	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	11/08/12 15:58	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	95-47-6	



Analytical Laboratory Report

Lab Sample ID: S54512.02 (continued)

Sample Tag: SB-A2-DUP4

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Styrene	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	11/08/12 15:58	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S54512.03
Sample Tag: SB-A2-OU52_2'-3'
Collected Date/Time: 11/07/2012 14:27
Matrix: Soil
COC Reference: 68763

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.5	IR
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	84	%	1	Std M 2540 B	11/08/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	76-13-1	
Acetone	Not detected	ug/kg	680	5035/8260B	11/08/12 14:40	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	680	5035/8260B	11/08/12 14:40	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	680	5035/8260B	11/08/12 14:40	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	680	5035/8260B	11/08/12 14:40	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	680	5035/8260B	11/08/12 14:40	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S54512.03 (continued)

Sample Tag: SB-A2-OU52_2'-3'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/08/12 14:40	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/08/12 14:40	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54512.04
Sample Tag: SB-A2-OU52_7'-8'
Collected Date/Time: 11/07/2012 14:35
Matrix: Soil
COC Reference: 68763

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.5	IR
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	11/09/12 01:00	SLR		
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Inorganics

Total Solids	92	%	1	Std M 2540 B	11/08/12 12:00	RGS		
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Metals

Arsenic	0.52	mg/kg	0.10	SW6020	11/09/12 15:45	SLS	7440-38-2	
Cobalt	2.46	mg/kg	0.21	SW6020	11/09/12 15:45	SLS	7440-48-4	
Manganese	164	mg/kg	0.21	SW6020	11/09/12 15:45	SLS	7439-96-5	
Silver	Not detected	mg/kg	0.02	SW6020	11/09/12 15:45	SLS	7440-22-4	

Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	76-13-1	
Acetone	Not detected	ug/kg	600	5035/8260B	11/08/12 14:58	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	600	5035/8260B	11/08/12 14:58	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	600	5035/8260B	11/08/12 14:58	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	600	5035/8260B	11/08/12 14:58	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	600	5035/8260B	11/08/12 14:58	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	108-87-2	



Analytical Laboratory Report

Lab Sample ID: S54512.04 (continued)

Sample Tag: SB-A2-OU52_7'-8'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/08/12 14:58	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 14:58	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54512.05
Sample Tag: SB-A2-OU52_13'-14'
Collected Date/Time: 11/07/2012 14:40
Matrix: Soil
COC Reference: 68763

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.5	IR
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	11/09/12 01:00	SLR		
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Inorganics

Total Solids	90	%	1	Std M 2540 B	11/08/12 12:00	RGS		
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Metals

Arsenic	0.88	mg/kg	0.11	SW6020	11/09/12 15:49	SLS	7440-38-2	
Cobalt	4.59	mg/kg	0.23	SW6020	11/09/12 15:49	SLS	7440-48-4	
Manganese	288	mg/kg	0.23	SW6020	11/09/12 15:49	SLS	7439-96-5	
Silver	0.03	mg/kg	0.02	SW6020	11/09/12 15:49	SLS	7440-22-4	

Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	76-13-1	
Acetone	Not detected	ug/kg	630	5035/8260B	11/08/12 15:16	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	630	5035/8260B	11/08/12 15:16	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	630	5035/8260B	11/08/12 15:16	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	630	5035/8260B	11/08/12 15:16	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	630	5035/8260B	11/08/12 15:16	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	108-87-2	



Analytical Laboratory Report

Lab Sample ID: S54512.05 (continued)

Sample Tag: SB-A2-OU52_13'-14'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/08/12 15:16	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:16	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54512.06
Sample Tag: SB-A2-OU52_18'-19'
Collected Date/Time: 11/07/2012 14:45
Matrix: Soil
COC Reference: 68763

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.5	IR
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	11/09/12 01:00	SLR		
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Inorganics

Total Solids	89	%	1	Std M 2540 B	11/08/12 12:00	RGS		
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Metals

Arsenic	1.18	mg/kg	0.12	SW6020	11/09/12 15:54	SLS	7440-38-2	
Cobalt	5.07	mg/kg	0.24	SW6020	11/09/12 15:54	SLS	7440-48-4	
Manganese	320	mg/kg	0.24	SW6020	11/09/12 15:54	SLS	7439-96-5	
Silver	0.04	mg/kg	0.02	SW6020	11/09/12 15:54	SLS	7440-22-4	

Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	76-13-1	
Acetone	Not detected	ug/kg	600	5035/8260B	11/08/12 15:34	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	600	5035/8260B	11/08/12 15:34	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	600	5035/8260B	11/08/12 15:34	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	600	5035/8260B	11/08/12 15:34	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	600	5035/8260B	11/08/12 15:34	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	108-87-2	



Analytical Laboratory Report

Lab Sample ID: S54512.06 (continued)

Sample Tag: SB-A2-OU52_18'-19'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/08/12 15:34	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:34	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54512.08
Sample Tag: SB-A2-OU52_15'-19'
Collected Date/Time: 11/07/2012 14:48
Matrix: Groundwater
COC Reference: 68763

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.5	IR
1	125ml Plastic	HNO3	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3015A	11/09/12 01:00	SLR		
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Metals

Arsenic, Dissolved	Not detected	mg/L	0.001	SW6020	11/09/12 14:34	SLS	7440-38-2	
Cobalt, Dissolved	Not detected	mg/L	0.002	SW6020	11/09/12 14:34	SLS	7440-48-4	
Manganese, Dissolved	0.086	mg/L	0.002	SW6020	11/09/12 14:34	SLS	7439-96-5	
Silver, Dissolved	Not detected	mg/L	0.0002	SW6020	11/09/12 14:34	SLS	7440-22-4	

Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	11/08/12 15:23	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	76-13-1	
Acetone	11	ug/L	10	SW8260B	11/08/12 16:18	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	11/08/12 16:18	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	11/08/12 16:18	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	11/08/12 16:18	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	11/08/12 16:18	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	10061-01-5	



Analytical Laboratory Report

Lab Sample ID: S54512.08 (continued)

Sample Tag: SB-A2-OU52_15'-19'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Toluene	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	11/08/12 16:18	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	11/08/12 16:18	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S54512.09
Sample Tag: SB-A2-OU52_24'-25'
Collected Date/Time: 11/07/2012 14:51
Matrix: Soil
COC Reference: 68763

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.5	IR
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	11/09/12 01:00	SLR		
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Inorganics

Total Solids	91	%	1	Std M 2540 B	11/08/12 12:00	RGS		
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Metals

Arsenic	2.34	mg/kg	0.11	SW6020	11/09/12 16:40	SLS	7440-38-2	
Cobalt	5.47	mg/kg	0.21	SW6020	11/09/12 16:40	SLS	7440-48-4	
Manganese	318	mg/kg	0.21	SW6020	11/09/12 16:40	SLS	7439-96-5	
Silver	0.04	mg/kg	0.02	SW6020	11/09/12 16:40	SLS	7440-22-4	

Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	76-13-1	
Acetone	Not detected	ug/kg	580	5035/8260B	11/08/12 15:53	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	580	5035/8260B	11/08/12 15:53	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	580	5035/8260B	11/08/12 15:53	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	580	5035/8260B	11/08/12 15:53	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	580	5035/8260B	11/08/12 15:53	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	108-87-2	



Analytical Laboratory Report

Lab Sample ID: S54512.09 (continued)

Sample Tag: SB-A2-OU52_24'-25'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/08/12 15:53	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 15:53	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54512.10
Sample Tag: SB-A2-OU52_29'-30'
Collected Date/Time: 11/07/2012 15:00
Matrix: Soil
COC Reference: 68763

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.5	IR
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	11/09/12 01:00	SLR		
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Inorganics

Total Solids	84	%	1	Std M 2540 B	11/08/12 12:00	RGS		
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Metals

Arsenic	3.05	mg/kg	0.11	SW6020	11/09/12 16:24	SLS	7440-38-2	
Cobalt	2.31	mg/kg	0.23	SW6020	11/09/12 16:24	SLS	7440-48-4	
Manganese	249	mg/kg	0.23	SW6020	11/09/12 16:24	SLS	7439-96-5	
Silver	0.02	mg/kg	0.02	SW6020	11/09/12 16:24	SLS	7440-22-4	

Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	76-13-1	
Acetone	Not detected	ug/kg	680	5035/8260B	11/08/12 16:11	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	680	5035/8260B	11/08/12 16:11	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	680	5035/8260B	11/08/12 16:11	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	680	5035/8260B	11/08/12 16:11	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	680	5035/8260B	11/08/12 16:11	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	108-87-2	



Analytical Laboratory Report

Lab Sample ID: S54512.10 (continued)

Sample Tag: SB-A2-OU52_29'-30'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/08/12 16:11	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/08/12 16:11	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54512.11
Sample Tag: SB-A2-OY52_3'-4'
Collected Date/Time: 11/07/2012 15:54
Matrix: Soil
COC Reference: 68763

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.5	IR
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	11/09/12 01:00	SLR		
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Inorganics

Total Solids	91	%	1	Std M 2540 B	11/08/12 12:00	RGS		
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Metals

Arsenic	2.26	mg/kg	0.11	SW6020	11/09/12 16:28	SLS	7440-38-2	
Cobalt	2.40	mg/kg	0.21	SW6020	11/09/12 16:28	SLS	7440-48-4	
Manganese	186	mg/kg	0.21	SW6020	11/09/12 16:28	SLS	7439-96-5	
Silver	Not detected	mg/kg	0.02	SW6020	11/09/12 16:28	SLS	7440-22-4	

Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	76-13-1	
Acetone	Not detected	ug/kg	590	5035/8260B	11/08/12 16:29	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	590	5035/8260B	11/08/12 16:29	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	590	5035/8260B	11/08/12 16:29	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	590	5035/8260B	11/08/12 16:29	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	590	5035/8260B	11/08/12 16:29	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	108-87-2	



Analytical Laboratory Report

Lab Sample ID: S54512.11 (continued)

Sample Tag: SB-A2-OY52_3'-4'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/08/12 16:29	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:29	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54512.12
Sample Tag: SB-A2-OY52_7'-8'
Collected Date/Time: 11/07/2012 16:20
Matrix: Soil
COC Reference: 68763

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.5	IR
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	11/09/12 01:00	SLR		
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Inorganics

Total Solids	90	%	1	Std M 2540 B	11/08/12 12:00	RGS		
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Metals

Arsenic	3.99	mg/kg	0.11	SW6020	11/09/12 16:32	SLS	7440-38-2	
Cobalt	7.44	mg/kg	0.22	SW6020	11/09/12 16:32	SLS	7440-48-4	
Manganese	477	mg/kg	0.22	SW6020	11/09/12 16:32	SLS	7439-96-5	
Silver	Not detected	mg/kg	0.02	SW6020	11/09/12 16:32	SLS	7440-22-4	

Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	76-13-1	
Acetone	Not detected	ug/kg	620	5035/8260B	11/08/12 16:47	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	620	5035/8260B	11/08/12 16:47	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	620	5035/8260B	11/08/12 16:47	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	620	5035/8260B	11/08/12 16:47	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	620	5035/8260B	11/08/12 16:47	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	108-87-2	



Analytical Laboratory Report

Lab Sample ID: S54512.12 (continued)

Sample Tag: SB-A2-OY52_7'-8'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/08/12 16:47	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 16:47	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54512.13
Sample Tag: SB-A2-OY52_12'-13'
Collected Date/Time: 11/07/2012 16:29
Matrix: Soil
COC Reference: 68762

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.5	IR
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	11/09/12 01:00	SLR		
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Inorganics

Total Solids	94	%	1	Std M 2540 B	11/08/12 12:00	RGS		
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Metals

Arsenic	1.85	mg/kg	0.11	SW6020	11/09/12 16:36	SLS	7440-38-2	
Cobalt	1.54	mg/kg	0.22	SW6020	11/09/12 16:36	SLS	7440-48-4	
Manganese	115	mg/kg	0.22	SW6020	11/09/12 16:36	SLS	7439-96-5	
Silver	Not detected	mg/kg	0.02	SW6020	11/09/12 16:36	SLS	7440-22-4	

Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	76-13-1	
Acetone	Not detected	ug/kg	540	5035/8260B	11/08/12 17:05	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	540	5035/8260B	11/08/12 17:05	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	540	5035/8260B	11/08/12 17:05	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	156-59-2	
Chloroform	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	540	5035/8260B	11/08/12 17:05	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	540	5035/8260B	11/08/12 17:05	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	56-23-5	
Benzene	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	108-87-2	



Analytical Laboratory Report

Lab Sample ID: S54512.13 (continued)

Sample Tag: SB-A2-OY52_12'-13'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
cis-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	10061-01-5	
Toluene	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/08/12 17:05	WAT		
o-Xylene	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	95-47-6	
Styrene	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	98-82-8	
Bromoform	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	50	5035/8260B	11/08/12 17:05	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54512.14
Sample Tag: SB-A2-OY52_20'-21'
Collected Date/Time: 11/07/2012 16:35
Matrix: Soil
COC Reference: 68762

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.5	IR
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	11/09/12 01:00	SLR		
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Inorganics

Total Solids	91	%	1	Std M 2540 B	11/08/12 12:00	RGS		
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Metals

Arsenic	3.04	mg/kg	0.11	SW6020	11/09/12 16:45	SLS	7440-38-2	
Cobalt	3.18	mg/kg	0.22	SW6020	11/09/12 16:45	SLS	7440-48-4	
Manganese	214	mg/kg	0.22	SW6020	11/09/12 16:45	SLS	7439-96-5	
Silver	0.02	mg/kg	0.02	SW6020	11/09/12 16:45	SLS	7440-22-4	

Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	76-13-1	
Acetone	Not detected	ug/kg	620	5035/8260B	11/08/12 17:23	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	620	5035/8260B	11/08/12 17:23	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	620	5035/8260B	11/08/12 17:23	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	620	5035/8260B	11/08/12 17:23	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	620	5035/8260B	11/08/12 17:23	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	108-87-2	



Analytical Laboratory Report

Lab Sample ID: S54512.14 (continued)

Sample Tag: SB-A2-OY52_20'-21'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/08/12 17:23	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 17:23	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54512.15
Sample Tag: SB-A2-OY52_25'-26'
Collected Date/Time: 11/07/2012 16:42
Matrix: Soil
COC Reference: 68762

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.5	IR
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	11/09/12 01:00	SLR		
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Inorganics

Total Solids	85	%	1	Std M 2540 B	11/08/12 12:00	RGS		
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Metals

Arsenic	2.90	mg/kg	0.12	SW6020	11/09/12 16:49	SLS	7440-38-2	
Cobalt	2.22	mg/kg	0.23	SW6020	11/09/12 16:49	SLS	7440-48-4	
Manganese	209	mg/kg	0.23	SW6020	11/09/12 16:49	SLS	7439-96-5	
Silver	0.02	mg/kg	0.02	SW6020	11/09/12 16:49	SLS	7440-22-4	

Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	76-13-1	
Acetone	Not detected	ug/kg	660	5035/8260B	11/08/12 17:42	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	660	5035/8260B	11/08/12 17:42	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	660	5035/8260B	11/08/12 17:42	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	660	5035/8260B	11/08/12 17:42	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	660	5035/8260B	11/08/12 17:42	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	108-87-2	



Analytical Laboratory Report

Lab Sample ID: S54512.15 (continued)

Sample Tag: SB-A2-OY52_25'-26'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/08/12 17:42	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/08/12 17:42	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54512.16
Sample Tag: SB-A2-OY52_29'-30'
Collected Date/Time: 11/07/2012 16:50
Matrix: Soil
COC Reference: 68762

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.5	IR
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	11/09/12 01:00	SLR		
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Inorganics

Total Solids	91	%	1	Std M 2540 B	11/08/12 12:00	RGS		
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Metals

Arsenic	2.77	mg/kg	0.12	SW6020	11/09/12 16:53	SLS	7440-38-2	
Cobalt	4.44	mg/kg	0.23	SW6020	11/09/12 16:53	SLS	7440-48-4	
Manganese	318	mg/kg	0.23	SW6020	11/09/12 16:53	SLS	7439-96-5	
Silver	0.03	mg/kg	0.02	SW6020	11/09/12 16:53	SLS	7440-22-4	

Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	76-13-1	
Acetone	Not detected	ug/kg	630	5035/8260B	11/08/12 18:00	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	630	5035/8260B	11/08/12 18:00	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	630	5035/8260B	11/08/12 18:00	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	630	5035/8260B	11/08/12 18:00	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	630	5035/8260B	11/08/12 18:00	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	108-87-2	



Analytical Laboratory Report

Lab Sample ID: S54512.16 (continued)

Sample Tag: SB-A2-OY52_29'-30'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/08/12 18:00	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/08/12 18:00	WAT	120-82-1	



2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

68763

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Randy Christensen			
COMPANY ARCADIS			
ADDRESS 10559 Citation Drive Suite 100			
CITY Brighton		STATE MI	ZIP CODE 48116
PHONE NO. 810-225-1910	FAX NO.	P.O. NO. PO 125047	
E-MAIL ADDRESS randy.christensen@arcadis-us.com		QUOTE NO. Task#: 105	

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti		STATE MI	ZIP CODE 48198
PHONE NO. 313-486-9208	E-MAIL ADDRESS dfavero@racertrust.org		

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Lansing Plant 2 Project#: B0064479.2012	SAMPLER(S) - PLEASE PRINT/SIGN NAME Alex Villanar / alex.villanar
TURNAROUND TIME REQUIRED ☐ 1 DAY ☒ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER	
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER	

MATRIX CODE:	GW=GROUNDWATER	WW=WASTEWATER	S=SOIL	L=LIQUID	SD=SOLID	
	SL=SLUDGE	DW=DRINKING WATER	O=OIL	WP=WPIPE	A=AIR	W=WASTE

Containers & Preservatives

MERIT LAB NO. FOR LAB USE ONLY	YEAR 2012		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES										
	DATE	TIME				NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	TCL	TCL	TAL
54512.01	11/7	13:40	SB-A2-OBS2-11-15'	GW	2		2						X		
.02	11/7	-	SB-A2-DUP4	GW	2		2						X		
.03	11/7	13:55	SB-A2-OBS2-21-22'	S	2								X		
.03.04	11/7	14:27	SB-A2-OVS2-2'-3'	S	2								X		
.04.05	11/7	14:35	SB-A2-OVS2-7'-8'	S	2								X		
.05.06	11/7	14:40	SB-A2-OVS2-13-14'	S	2								X		
.06.07	11/7	14:45	SB-A2-OVS2-18'-19'	S	2								X		
.09	11/7	14:48	SB-A2-OVS2-15'-19'	GW	3		2						X		
.09	11/7	15:51	SB-A2-OVS2-24'-25'	S	2								X		
.10	11/7	15:00	SB-A2-OVS2-29'-30'	S	2								X		
.11	11/7	15:54	SB-A2-OVS2-3'-4'	S	2								X		
.12	11/7	16:20	SB-A2-OVS2-7'-8'	S	2								X		

Certifications	
☐ OHIO VAP	☐ Drinking Water
☐ DoD	☐ NPDES
Project Locations	
☐ Detroit	☐ New York
☐ Other	
Special Instructions	

HNO₃ preserved
bottles are
field filtered

RELINQUISHED BY: SIGNATURE/ORGANIZATION OR Villanar / PME	☒ Sampler	DATE 11/7/12	TIME 18:20
RELINQUISHED BY: SIGNATURE/ORGANIZATION PM Storage		DATE 11/7/12	TIME 18:50
RELINQUISHED BY: SIGNATURE/ORGANIZATION PM Storage		DATE 11/8/12	TIME 9:30
RELINQUISHED BY: SIGNATURE/ORGANIZATION Isabel Villanar		DATE 11/8/12	TIME 9:30

RELINQUISHED BY: SIGNATURE/ORGANIZATION Isabel Villanar	DATE 11/7/12	TIME 10:10
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
NOTES:		TEMP. ON ARRIVAL 4.5

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



Analytical Laboratory Report

Report ID: S54514.01(01)
Generated on 11/12/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:

Andy Ball (andyball@meritlabs.com)
Tabitha Faust (tfaust@meritlabs.com)

Report Summary

Lab Sample ID(s): S54514.01-S54514.05
Project: Lansing Plant 2 Project#: B0064479.2012
Collected Date: 11/07/2012
Submitted Date/Time: 11/08/2012 10:10
Sampled by: Alex Villhauer
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (5 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S54514.01	SB-A4-MX47_1'-2'	Soil	11/07/2012 10:15
S54514.02	SB-A4-MX47_7'-8'	Soil	11/07/2012 10:25
S54514.03	SB-A4-MX47_18'-19	Soil	11/07/2012 10:30
S54514.04	SB-A4-DUP3	Soil	11/07/2012 00:01
S54514.05	SB-A4-MX47_5'-9'	Groundwater	11/07/2012 10:40



Analytical Laboratory Report

Lab Sample ID: S54514.01
Sample Tag: SB-A4-MX47_1'-2'
Collected Date/Time: 11/07/2012 10:15
Matrix: Soil
COC Reference: 68759

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	11/09/12 01:00	SLR		
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Inorganics

Total Solids	88	%	1	Std M 2540 B	11/08/12 12:00	RGS		
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Metals

Cadmium	0.19	mg/kg	0.11	SW6020	11/09/12 17:27	SLS	7440-43-9	
Cobalt	4.98	mg/kg	0.22	SW6020	11/09/12 17:27	SLS	7440-48-4	
Copper	15.0	mg/kg	0.22	SW6020	11/09/12 17:27	SLS	7440-50-8	
Manganese	402	mg/kg	0.22	SW6020	11/12/12 12:27	SLS	7439-96-5	
Selenium	Not detected	mg/kg	0.11	SW6020	11/12/12 16:27	SLS	7782-49-2	
Zinc	26.7	mg/kg	1.1	SW6020	11/09/12 17:27	SLS	7440-66-6	



Analytical Laboratory Report

Lab Sample ID: S54514.02
Sample Tag: SB-A4-MX47_7'-8'
Collected Date/Time: 11/07/2012 10:25
Matrix: Soil
COC Reference: 68759

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	11/09/12 01:00	SLR		
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Inorganics

Total Solids	53	%	1	Std M 2540 B	11/08/12 12:00	RGS		
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Metals

Cadmium	0.24	mg/kg	0.19	SW6020	11/09/12 17:31	SLS	7440-43-9	
Cobalt	5.89	mg/kg	0.38	SW6020	11/09/12 17:31	SLS	7440-48-4	
Copper	20.2	mg/kg	0.38	SW6020	11/09/12 17:31	SLS	7440-50-8	
Manganese	164	mg/kg	0.38	SW6020	11/12/12 12:30	SLS	7439-96-5	
Selenium	0.87	mg/kg	0.19	SW6020	11/12/12 16:30	SLS	7782-49-2	
Zinc	45.2	mg/kg	1.9	SW6020	11/09/12 17:31	SLS	7440-66-6	



Analytical Laboratory Report

Lab Sample ID: S54514.03

Sample Tag: SB-A4-MX47_18'-19

Collected Date/Time: 11/07/2012 10:30

Matrix: Soil

COC Reference: 68759

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	11/09/12 01:00	SLR		
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Inorganics

Total Solids	89	%	1	Std M 2540 B	11/08/12 12:00	RGS		
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Metals

Cadmium	Not detected	mg/kg	0.11	SW6020	11/09/12 17:36	SLS	7440-43-9	
Cobalt	3.56	mg/kg	0.22	SW6020	11/09/12 17:36	SLS	7440-48-4	
Copper	9.63	mg/kg	0.22	SW6020	11/09/12 17:36	SLS	7440-50-8	
Manganese	249	mg/kg	0.22	SW6020	11/12/12 12:32	SLS	7439-96-5	
Selenium	0.13	mg/kg	0.11	SW6020	11/12/12 16:32	SLS	7782-49-2	
Zinc	18.7	mg/kg	1.1	SW6020	11/09/12 17:36	SLS	7440-66-6	



Analytical Laboratory Report

Lab Sample ID: S54514.04
Sample Tag: SB-A4-DUP3
Collected Date/Time: 11/07/2012 00:01
Matrix: Soil
COC Reference: 68759

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	11/09/12 01:00	SLR		
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Inorganics

Total Solids	90	%	1	Std M 2540 B	11/08/12 12:00	RGS		
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Metals

Cadmium	0.42	mg/kg	0.11	SW6020	11/09/12 17:40	SLS	7440-43-9	
Cobalt	3.43	mg/kg	0.22	SW6020	11/09/12 17:40	SLS	7440-48-4	
Copper	15.7	mg/kg	0.22	SW6020	11/09/12 17:40	SLS	7440-50-8	
Manganese	144	mg/kg	0.22	SW6020	11/12/12 12:35	SLS	7439-96-5	
Selenium	0.15	mg/kg	0.11	SW6020	11/12/12 16:34	SLS	7782-49-2	
Zinc	64.9	mg/kg	1.1	SW6020	11/09/12 17:40	SLS	7440-66-6	



Analytical Laboratory Report

Lab Sample ID: S54514.05

Sample Tag: SB-A4-MX47_5'-9'

Collected Date/Time: 11/07/2012 10:40

Matrix: Groundwater

COC Reference: 68759

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.5	IR
1	125ml Plastic	HNO3	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3015A	11/09/12 01:00	SLR		
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Metals

Cadmium, Dissolved	Not detected	mg/L	0.001	E200.8	11/09/12 14:38	SLS	7440-43-9	
Cobalt, Dissolved	Not detected	mg/L	0.002	E200.8	11/09/12 14:38	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	E200.8	11/09/12 14:38	SLS	7440-50-8	
Manganese, Dissolved	1.78	mg/L	0.002	E200.8	11/09/12 14:38	SLS	7439-96-5	
Selenium, Dissolved	0.001	mg/L	0.001	E200.8	11/12/12 15:30	SLS	7782-49-2	
Zinc, Dissolved	0.01	mg/L	0.01	E200.8	11/09/12 14:38	SLS	7440-66-6	

Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	11/08/12 14:29	WAT	123-91-1	
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REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME **Randy Christensen**

COMPANY **ARCADIS**

ADDRESS **10559 Citation Drive Suite 100**

CITY **Brighton** STATE **MI** ZIP CODE **48116**

PHONE NO. **810-225-1910** FAX NO. P.O. NO. **PO 125047**

E-MAIL ADDRESS **randy.christensen@arcadis-us.com** QUOTE NO. **Task# 105**

CONTACT NAME **Dave Favero** ☐ SAME

COMPANY **RACER TRUST**

ADDRESS **2930 Ecorse Road**

CITY **Ypsilanti** STATE **MI** ZIP CODE **48198**

PHONE NO. **313-486-9208** E-MAIL ADDRESS **dfavero@racertrust.org**

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Lansing Plant 2 Project# B0064479.2012			SAMPLER(S) - PLEASE PRINT/SIGN NAME Alex Villhauer										TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☒ OTHER 5 day		DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER		Certifications ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES		Project Locations ☐ Detroit ☐ New York ☐ Other		Special Instructions	
MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WPIPE A=AIR W=WASTE			# Containers & Preservatives										vocs		SVOCs		PCBs		Metals (w/Hg)			
MERIT LAB NO. FOR LAB USE ONLY	YEAR 2012	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	TCL	TCL	TAL	Cd, Co, Cr, Fe, Pb, Mn	1,4 dioxane (5TMS)						
S4514.01	11/7	10:15 SB-A4-MX47-1'-2'		1																		
.02	11/7	10:25 SB-A4-MX47-7'-8'		1																		
.03	11/7	10:30 SB-A4-MX47-18'-19'		1																		
.04	11/7	SB-A4-DUP3		1																		
.05	11/7	10:40 SB-A4-MX47-5'-9'	GW	3																		

HND₂ preserved is field filtered

RELINQUISHED BY: **AE Villhauer / PME** ☒ Sampler DATE **11/7/12** TIME **18:50**

RECEIVED BY: **PM Storage** DATE **11/7/12** TIME **18:50**

RELINQUISHED BY: **PM Storage** DATE **11/8/12** TIME **9:30**

RECEIVED BY: **ISL** DATE **11/8/12** TIME **9:30**

RELINQUISHED BY: **ISL** DATE **11/8/12** TIME **9:30**

RELINQUISHED BY: **ISL** DATE **11/8/12** TIME **9:30**

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL **4.5**



Analytical Laboratory Report

Report ID: S54535.01(01)
Generated on 11/13/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:

Andy Ball (andyball@meritlabs.com)
Tabitha Faust (tfaust@meritlabs.com)

Report Summary

Lab Sample ID(s): S54535.01-S54535.23
Project: Lansing Plant 2 Project#: B0064479.2012
Collected Date: 11/08/2012
Submitted Date/Time: 11/09/2012 10:45
Sampled by: Alex Villhauer
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (23 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S54535.01	Trip Blank	Methanol	11/08/2012 08:30
S54535.02	SB-A2-PC52_2.5'-3.5'	Soil	11/08/2012 08:58
S54535.03	SB-A2-PC52_7'-8'	Soil	11/08/2012 09:10
S54535.04	SB-A2-PC52_12'-13'	Soil	11/08/2012 09:18
S54535.05	SB-A2-PC52_18'-19'	Soil	11/08/2012 09:35
S54535.06	SB-A2-PC52_23'-24'	Soil	11/08/2012 09:50
S54535.07	SB-A2-PC52_23'-24' MS	Soil	11/08/2012 09:50
S54535.08	SB-A2-PC52_23'-24' MSD	Soil	11/08/2012 09:50
S54535.09	SB-A2-PC52_25'-29'	Groundwater	11/08/2012 10:00
S54535.10	SB-A2-OX76_2'-3'	Soil	11/08/2012 11:12
S54535.11	SB-A2-OX76_7'-8'	Soil	11/08/2012 11:15
S54535.12	SB-A2-OX76_13'-14'	Soil	11/08/2012 12:40
S54535.13	SB-A2-OX76_18'-19'	Soil	11/08/2012 12:52
S54535.14	SB-A2-OX76_23'-24'	Soil	11/08/2012 13:00
S54535.15	SB-A2-OX76_29'-30'	Soil	11/08/2012 13:06
S54535.16	SB-A2-PH76_1.5'-2.5'	Soil	11/08/2012 13:29
S54535.17	SB-A2-PH76_7'-8'	Soil	11/08/2012 13:30
S54535.18	SB-A2-Dup5	Soil	11/08/2012 00:01
S54535.19	SB-A2-PH76_10'-14'	Groundwater	11/08/2012 13:40
S54535.20	SB-A2-PH76_14'-15'	Soil	11/08/2012 13:55
S54535.21	SB-A2-PH76_19'-20'	Soil	11/08/2012 14:02
S54535.22	SB-A2-PH76_25'-26'	Soil	11/08/2012 14:05
S54535.23	SB-A2-PH76_29'-30'	Soil	11/08/2012 14:10



Analytical Laboratory Report

Lab Sample ID: S54535.01
Sample Tag: Trip Blank
Collected Date/Time: 11/08/2012 08:30
Matrix: Methanol
COC Reference: 68760

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	76-13-1	
Acetone	Not detected	ug/kg	500	5035/8260B	11/11/12 14:02	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	500	5035/8260B	11/11/12 14:02	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	500	5035/8260B	11/11/12 14:02	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	156-59-2	
Chloroform	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	500	5035/8260B	11/11/12 14:02	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	500	5035/8260B	11/11/12 14:02	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	56-23-5	
Benzene	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	10061-01-5	
Toluene	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/11/12 14:02	WAT		
o-Xylene	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	95-47-6	
Styrene	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	100-42-5	



Analytical Laboratory Report

Lab Sample ID: S54535.01 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Isopropylbenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	98-82-8	
Bromoform	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 14:02	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54535.02
Sample Tag: SB-A2-PC52_2.5'-3.5'
Collected Date/Time: 11/08/2012 08:58
Matrix: Soil
COC Reference: 68760

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.6	IR
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	11/12/12 01:00	SLR		
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Inorganics

Total Solids	92	%	1	Std M 2540 B	11/09/12 12:00	RGS		
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Metals

Arsenic	0.87	mg/kg	0.11	SW6020	11/12/12 20:15	SLS	7440-38-2	
Cobalt	1.80	mg/kg	0.22	SW6020	11/12/12 20:15	SLS	7440-48-4	
Manganese	136	mg/kg	0.22	SW6020	11/12/12 13:29	SLS	7439-96-5	
Silver	Not detected	mg/kg	0.02	SW6020	11/12/12 20:15	SLS	7440-22-4	

Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	76-13-1	
Acetone	Not detected	ug/kg	600	5035/8260B	11/11/12 14:21	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	600	5035/8260B	11/11/12 14:21	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	600	5035/8260B	11/11/12 14:21	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	600	5035/8260B	11/11/12 14:21	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	600	5035/8260B	11/11/12 14:21	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	108-87-2	



Analytical Laboratory Report

Lab Sample ID: S54535.02 (continued)

Sample Tag: SB-A2-PC52_2.5'-3.5'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/11/12 14:21	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:21	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54535.03
Sample Tag: SB-A2-PC52_7'-8'
Collected Date/Time: 11/08/2012 09:10
Matrix: Soil
COC Reference: 68760

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.6	IR
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	11/12/12 01:00	SLR		
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Inorganics

Total Solids	90	%	1	Std M 2540 B	11/09/12 12:00	RGS		
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Metals

Arsenic	1.84	mg/kg	0.11	SW6020	11/12/12 20:19	SLS	7440-38-2	
Cobalt	6.10	mg/kg	0.23	SW6020	11/12/12 20:19	SLS	7440-48-4	
Manganese	301	mg/kg	0.23	SW6020	11/12/12 13:33	SLS	7439-96-5	
Silver	Not detected	mg/kg	0.02	SW6020	11/12/12 20:19	SLS	7440-22-4	

Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	76-13-1	
Acetone	Not detected	ug/kg	600	5035/8260B	11/11/12 14:41	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	600	5035/8260B	11/11/12 14:41	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	600	5035/8260B	11/11/12 14:41	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	600	5035/8260B	11/11/12 14:41	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	600	5035/8260B	11/11/12 14:41	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	108-87-2	



Analytical Laboratory Report

Lab Sample ID: S54535.03 (continued)

Sample Tag: SB-A2-PC52_7'-8'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/11/12 14:41	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 14:41	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54535.04
Sample Tag: SB-A2-PC52_12'-13'
Collected Date/Time: 11/08/2012 09:18
Matrix: Soil
COC Reference: 68760

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.6	IR
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	11/12/12 01:00	SLR		
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Inorganics

Total Solids	84	%	1	Std M 2540 B	11/09/12 12:00	RGS		
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Metals

Arsenic	0.75	mg/kg	0.12	SW6020	11/12/12 20:23	SLS	7440-38-2	
Cobalt	1.62	mg/kg	0.23	SW6020	11/12/12 20:23	SLS	7440-48-4	
Manganese	191	mg/kg	0.23	SW6020	11/12/12 13:41	SLS	7439-96-5	
Silver	0.02	mg/kg	0.02	SW6020	11/12/12 20:23	SLS	7440-22-4	

Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	76-13-1	
Acetone	Not detected	ug/kg	690	5035/8260B	11/11/12 15:01	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	690	5035/8260B	11/11/12 15:01	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	690	5035/8260B	11/11/12 15:01	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	690	5035/8260B	11/11/12 15:01	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	690	5035/8260B	11/11/12 15:01	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	108-87-2	



Analytical Laboratory Report

Lab Sample ID: S54535.04 (continued)

Sample Tag: SB-A2-PC52_12'-13'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/11/12 15:01	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 15:01	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54535.05
Sample Tag: SB-A2-PC52_18'-19'
Collected Date/Time: 11/08/2012 09:35
Matrix: Soil
COC Reference: 68760

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.6	IR
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	11/12/12 01:00	SLR		
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Inorganics

Total Solids	89	%	1	Std M 2540 B	11/09/12 12:00	RGS		
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Metals

Arsenic	3.32	mg/kg	0.11	SW6020	11/12/12 20:27	SLS	7440-38-2	
Cobalt	6.75	mg/kg	0.23	SW6020	11/12/12 20:27	SLS	7440-48-4	
Manganese	337	mg/kg	0.23	SW6020	11/12/12 13:44	SLS	7439-96-5	
Silver	0.04	mg/kg	0.02	SW6020	11/12/12 20:27	SLS	7440-22-4	

Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	76-13-1	
Acetone	Not detected	ug/kg	600	5035/8260B	11/11/12 15:21	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	600	5035/8260B	11/11/12 15:21	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	600	5035/8260B	11/11/12 15:21	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	600	5035/8260B	11/11/12 15:21	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	600	5035/8260B	11/11/12 15:21	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	108-87-2	



Analytical Laboratory Report

Lab Sample ID: S54535.05 (continued)

Sample Tag: SB-A2-PC52_18'-19'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/11/12 15:21	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:21	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54535.06
Sample Tag: SB-A2-PC52_23'-24'
Collected Date/Time: 11/08/2012 09:50
Matrix: Soil
COC Reference: 68760

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.6	IR
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	11/12/12 01:00	SLR		
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Inorganics

Total Solids	88	%	1	Std M 2540 B	11/09/12 12:00	RGS		
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Metals

Arsenic	3.66	mg/kg	0.12	SW6020	11/12/12 20:48	SLS	7440-38-2	
Cobalt	8.03	mg/kg	0.24	SW6020	11/12/12 20:48	SLS	7440-48-4	
Manganese	348	mg/kg	0.24	SW6020	11/12/12 14:18	SLS	7439-96-5	
Silver	0.04	mg/kg	0.02	SW6020	11/12/12 20:48	SLS	7440-22-4	

Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	76-13-1	
Acetone	Not detected	ug/kg	610	5035/8260B	11/11/12 15:40	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	610	5035/8260B	11/11/12 15:40	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	610	5035/8260B	11/11/12 15:40	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	610	5035/8260B	11/11/12 15:40	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	610	5035/8260B	11/11/12 15:40	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	108-87-2	



Analytical Laboratory Report

Lab Sample ID: S54535.06 (continued)

Sample Tag: SB-A2-PC52_23'-24'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/11/12 15:40	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 15:40	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54535.07

Sample Tag: SB-A2-PC52_23'-24' MS

Collected Date/Time: 11/08/2012 09:50

Matrix: Soil

COC Reference: 68760

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.6	IR
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion Completed 3050B 11/12/12 01:00 SLR

Inorganics

Total Solids 88 % 1 Std M 2540 B 11/09/12 12:00 RGS

Metals

Arsenic	28.1	mg/kg	0.11	SW6020	11/12/12 20:52	SLS	7440-38-2
Cobalt	31.2	mg/kg	0.22	SW6020	11/12/12 20:52	SLS	7440-48-4
Manganese	341	mg/kg	0.22	SW6020	11/12/12 14:22	SLS	7439-96-5
Silver	22.11	mg/kg	0.02	SW6020	11/12/12 20:52	SLS	7440-22-4

Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	3,420	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	76-13-1	1
Acetone	2,860	ug/kg	660	5035/8260B	11/11/12 20:16	WAT	67-64-1	1
Carbon disulfide	3,220	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	75-15-0	1
Methyl Acetate	3,170	ug/kg	660	5035/8260B	11/11/12 20:16	WAT	79-20-9	1
tert-Methyl butyl ether (MTBE)	3,320	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	1634-04-4	1
2-Butanone (MEK)	2,650	ug/kg	660	5035/8260B	11/11/12 20:16	WAT	78-93-3	1
Dichlorodifluoromethane	3,980	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	75-71-8	1
Chloromethane	3,550	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	74-87-3	1
Vinyl chloride	3,250	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	75-01-4	1
Bromomethane	3,240	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	74-83-9	1
Chloroethane	3,380	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	75-00-3	1
Trichlorofluoromethane	3,370	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	75-69-4	1
1,1-Dichloroethene	3,410	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	75-35-4	1
Methylene chloride	3,170	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	75-09-2	1
trans-1,2-Dichloroethene	3,380	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	156-60-5	1
1,1-Dichloroethane	3,340	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	75-34-3	1
cis-1,2-Dichloroethene	3,310	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	156-59-2	1
Chloroform	3,260	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	67-66-3	1
1,1,1-Trichloroethane	3,210	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	71-55-6	1
Cyclohexane	3,080	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	110-82-7	1
4-Methyl-2-pentanone (MIBK)	3,370	ug/kg	660	5035/8260B	11/11/12 20:16	WAT	108-10-1	1
2-Hexanone	3,280	ug/kg	660	5035/8260B	11/11/12 20:16	WAT	591-78-6	1
Carbon tetrachloride	2,880	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	56-23-5	1
Benzene	3,260	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	71-43-2	1
1,2-Dichloroethane	3,300	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	107-06-2	1
Trichloroethene	3,280	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	79-01-6	1
1,2-Dichloropropane	3,410	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	78-87-5	1
Bromodichloromethane	3,190	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	75-27-4	1

1-Spiked at 3.31mg/kg



Analytical Laboratory Report

Lab Sample ID: S54535.07 (continued)

Sample Tag: SB-A2-PC52_23'-24' MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Methyl cyclohexane	3,370	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	108-87-2	1
cis-1,3-Dichloropropene	3,150	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	10061-01-5	1
Toluene	3,230	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	108-88-3	1
trans-1,3-Dichloropropene	3,080	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	10061-02-6	1
1,1,2-Trichloroethane	3,440	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	79-00-5	1
Tetrachloroethene	2,950	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	127-18-4	1
Dibromochloromethane	3,140	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	124-48-1	1
1,2-Dibromoethane	3,490	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	106-93-4	1
Chlorobenzene	3,230	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	108-90-7	1
1,1,2,2-Tetrachloroethane	3,540	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	79-34-5	1
Ethylbenzene	3,250	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	100-41-4	1
p,m-Xylene	6,700	ug/kg	100	5035/8260B	11/11/12 20:16	WAT		1
o-Xylene	3,310	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	95-47-6	1
Styrene	3,270	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	100-42-5	1
Isopropylbenzene	3,280	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	98-82-8	1
Bromoform	3,240	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	75-25-2	1
1,3-Dichlorobenzene	3,310	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	541-73-1	1
1,4-Dichlorobenzene	3,150	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	106-46-7	1
1,2-Dichlorobenzene	3,200	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	95-50-1	1
1,2-Dibromo-3-chloropropane	3,270	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	96-12-8	1
1,2,4-Trichlorobenzene	3,210	ug/kg	70	5035/8260B	11/11/12 20:16	WAT	120-82-1	1

1-Spiked at 3.31mg/kg



Analytical Laboratory Report

Lab Sample ID: S54535.08

Sample Tag: SB-A2-PC52_23'-24' MSD

Collected Date/Time: 11/08/2012 09:50

Matrix: Soil

COC Reference: 68760

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.6	IR
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	11/12/12 01:00	SLR		
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Inorganics

Total Solids	87	%	1	Std M 2540 B	11/09/12 12:00	RGS		
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Metals

Arsenic	29.2	mg/kg	0.12	SW6020	11/12/12 20:57	SLS	7440-38-2	
Cobalt	32.2	mg/kg	0.23	SW6020	11/12/12 20:57	SLS	7440-48-4	
Manganese	345	mg/kg	0.23	SW6020	11/12/12 14:26	SLS	7439-96-5	
Silver	23.31	mg/kg	0.02	SW6020	11/12/12 20:57	SLS	7440-22-4	

Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	3,360	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	76-13-1	1
Acetone	2,910	ug/kg	670	5035/8260B	11/11/12 20:36	WAT	67-64-1	1
Carbon disulfide	3,200	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	75-15-0	1
Methyl Acetate	3,170	ug/kg	670	5035/8260B	11/11/12 20:36	WAT	79-20-9	1
tert-Methyl butyl ether (MTBE)	3,340	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	1634-04-4	1
2-Butanone (MEK)	2,720	ug/kg	670	5035/8260B	11/11/12 20:36	WAT	78-93-3	1
Dichlorodifluoromethane	3,610	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	75-71-8	1
Chloromethane	3,440	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	74-87-3	1
Vinyl chloride	3,120	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	75-01-4	1
Bromomethane	3,210	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	74-83-9	1
Chloroethane	3,350	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	75-00-3	1
Trichlorofluoromethane	3,190	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	75-69-4	1
1,1-Dichloroethene	3,460	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	75-35-4	1
Methylene chloride	3,180	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	75-09-2	1
trans-1,2-Dichloroethene	3,310	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	156-60-5	1
1,1-Dichloroethane	3,340	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	75-34-3	1
cis-1,2-Dichloroethene	3,330	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	156-59-2	1
Chloroform	3,320	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	67-66-3	1
1,1,1-Trichloroethane	3,230	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	71-55-6	1
Cyclohexane	2,960	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	110-82-7	1
4-Methyl-2-pentanone (MIBK)	3,310	ug/kg	670	5035/8260B	11/11/12 20:36	WAT	108-10-1	1
2-Hexanone	3,230	ug/kg	670	5035/8260B	11/11/12 20:36	WAT	591-78-6	1
Carbon tetrachloride	2,780	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	56-23-5	1
Benzene	3,200	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	71-43-2	1
1,2-Dichloroethane	3,310	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	107-06-2	1
Trichloroethene	3,220	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	79-01-6	1
1,2-Dichloropropane	3,400	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	78-87-5	1
Bromodichloromethane	3,230	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	75-27-4	1

1-Spiked at 3.35mg/kg



Analytical Laboratory Report

Lab Sample ID: S54535.08 (continued)

Sample Tag: SB-A2-PC52_23'-24' MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Methyl cyclohexane	3,170	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	108-87-2	1
cis-1,3-Dichloropropene	3,210	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	10061-01-5	1
Toluene	3,190	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	108-88-3	1
trans-1,3-Dichloropropene	3,130	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	10061-02-6	1
1,1,2-Trichloroethane	3,370	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	79-00-5	1
Tetrachloroethene	2,870	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	127-18-4	1
Dibromochloromethane	3,190	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	124-48-1	1
1,2-Dibromoethane	3,510	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	106-93-4	1
Chlorobenzene	3,180	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	108-90-7	1
1,1,2,2-Tetrachloroethane	3,430	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	79-34-5	1
Ethylbenzene	3,180	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	100-41-4	1
p,m-Xylene	6,500	ug/kg	100	5035/8260B	11/11/12 20:36	WAT		1
o-Xylene	3,250	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	95-47-6	1
Styrene	3,180	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	100-42-5	1
Isopropylbenzene	3,170	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	98-82-8	1
Bromoform	3,220	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	75-25-2	1
1,3-Dichlorobenzene	3,310	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	541-73-1	1
1,4-Dichlorobenzene	3,150	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	106-46-7	1
1,2-Dichlorobenzene	3,230	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	95-50-1	1
1,2-Dibromo-3-chloropropane	3,380	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	96-12-8	1
1,2,4-Trichlorobenzene	3,180	ug/kg	70	5035/8260B	11/11/12 20:36	WAT	120-82-1	1

1-Spiked at 3.35mg/kg



Analytical Laboratory Report

Lab Sample ID: S54535.09
Sample Tag: SB-A2-PC52_25'-29'
Collected Date/Time: 11/08/2012 10:00
Matrix: Groundwater
COC Reference: 68760

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3015A	11/09/12 01:00	SLR		
Metal Digestion	Completed			3015A	11/09/12 01:00	SLR		

Metals

Arsenic, Dissolved	0.002	mg/L	0.001	SW6020	11/09/12 14:42	SLS	7440-38-2	
Arsenic	0.002	mg/L	0.001	SW6020	11/09/12 14:42	SLS	7440-38-2	
Cobalt, Dissolved	0.004	mg/L	0.002	SW6020	11/09/12 14:42	SLS	7440-48-4	
Cobalt	0.004	mg/L	0.002	SW6020	11/09/12 14:42	SLS	7440-48-4	
Manganese, Dissolved	0.349	mg/L	0.002	SW6020	11/09/12 14:42	SLS	7439-96-5	
Manganese	0.349	mg/L	0.002	SW6020	11/09/12 14:42	SLS	7439-96-5	
Silver, Dissolved	Not detected	mg/L	0.0002	SW6020	11/09/12 14:42	SLS	7440-22-4	
Silver	Not detected	mg/L	0.0002	SW6020	11/09/12 14:42	SLS	7440-22-4	

Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	11/09/12 16:40	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	76-13-1	
Acetone	16	ug/L	10	SW8260B	11/11/12 18:27	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	11/11/12 18:27	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	11/11/12 18:27	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	156-60-5	
1,1-Dichloroethane	6	ug/L	1	SW8260B	11/11/12 18:27	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	11/11/12 18:27	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	11/11/12 18:27	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	107-06-2	



Analytical Laboratory Report

Lab Sample ID: S54535.09 (continued)

Sample Tag: SB-A2-PC52_25'-29'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Trichloroethene	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	11/11/12 18:27	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	11/11/12 18:27	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S54535.10
Sample Tag: SB-A2-OX76_2'-3'
Collected Date/Time: 11/08/2012 11:12
Matrix: Soil
COC Reference: 68760

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.6	IR
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	84	%	1	Std M 2540 B	11/09/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	76-13-1	
Acetone	Not detected	ug/kg	720	5035/8260B	11/11/12 16:00	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	720	5035/8260B	11/11/12 16:00	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	720	5035/8260B	11/11/12 16:00	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	720	5035/8260B	11/11/12 16:00	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	720	5035/8260B	11/11/12 16:00	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S54535.10 (continued)

Sample Tag: SB-A2-OX76_2'-3'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/11/12 16:00	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 16:00	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54535.11
Sample Tag: SB-A2-OX76_7'-8'
Collected Date/Time: 11/08/2012 11:15
Matrix: Soil
COC Reference: 68760

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.6	IR
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	95	%	1	Std M 2540 B	11/09/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	76-13-1	
Acetone	Not detected	ug/kg	530	5035/8260B	11/11/12 16:20	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	530	5035/8260B	11/11/12 16:20	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	530	5035/8260B	11/11/12 16:20	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	156-59-2	
Chloroform	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	530	5035/8260B	11/11/12 16:20	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	530	5035/8260B	11/11/12 16:20	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	56-23-5	
Benzene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	10061-01-5	
Toluene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S54535.11 (continued)

Sample Tag: SB-A2-OX76_7'-8'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/11/12 16:20	WAT		
o-Xylene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	95-47-6	
Styrene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	98-82-8	
Bromoform	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:20	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54535.12
Sample Tag: SB-A2-OX76_13'-14'
Collected Date/Time: 11/08/2012 12:40
Matrix: Soil
COC Reference: 68760

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.6	IR
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	90	%	1	Std M 2540 B	11/09/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	76-13-1	
Acetone	Not detected	ug/kg	610	5035/8260B	11/11/12 16:40	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	610	5035/8260B	11/11/12 16:40	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	610	5035/8260B	11/11/12 16:40	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	610	5035/8260B	11/11/12 16:40	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	610	5035/8260B	11/11/12 16:40	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S54535.12 (continued)

Sample Tag: SB-A2-OX76_13'-14'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/11/12 16:40	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 16:40	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54535.13
Sample Tag: SB-A2-OX76_18'-19'
Collected Date/Time: 11/08/2012 12:52
Matrix: Soil
COC Reference: 68761

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.6	IR
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	97	%	1	Std M 2540 B	11/09/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	76-13-1	
Acetone	Not detected	ug/kg	540	5035/8260B	11/11/12 16:59	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	540	5035/8260B	11/11/12 16:59	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	540	5035/8260B	11/11/12 16:59	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	156-59-2	
Chloroform	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	540	5035/8260B	11/11/12 16:59	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	540	5035/8260B	11/11/12 16:59	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	56-23-5	
Benzene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	10061-01-5	
Toluene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S54535.13 (continued)

Sample Tag: SB-A2-OX76_18'-19'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/11/12 16:59	WAT		
o-Xylene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	95-47-6	
Styrene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	98-82-8	
Bromoform	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 16:59	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54535.14
Sample Tag: SB-A2-OX76_23'-24'
Collected Date/Time: 11/08/2012 13:00
Matrix: Soil
COC Reference: 68761

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.6	IR
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	90	%	1	Std M 2540 B	11/09/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	76-13-1	
Acetone	Not detected	ug/kg	590	5035/8260B	11/11/12 17:19	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	590	5035/8260B	11/11/12 17:19	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	590	5035/8260B	11/11/12 17:19	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	590	5035/8260B	11/11/12 17:19	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	590	5035/8260B	11/11/12 17:19	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S54535.14 (continued)

Sample Tag: SB-A2-OX76_23'-24'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/11/12 17:19	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 17:19	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54535.15
Sample Tag: SB-A2-OX76_29'-30'
Collected Date/Time: 11/08/2012 13:06
Matrix: Soil
COC Reference: 68761

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.6	IR
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	87	%	1	Std M 2540 B	11/09/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	76-13-1	
Acetone	Not detected	ug/kg	680	5035/8260B	11/11/12 17:39	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	680	5035/8260B	11/11/12 17:39	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	680	5035/8260B	11/11/12 17:39	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	680	5035/8260B	11/11/12 17:39	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	680	5035/8260B	11/11/12 17:39	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S54535.15 (continued)

Sample Tag: SB-A2-OX76_29'-30'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/11/12 17:39	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 17:39	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54535.16
Sample Tag: SB-A2-PH76_1.5'-2.5'
Collected Date/Time: 11/08/2012 13:29
Matrix: Soil
COC Reference: 68761

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.6	IR
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	96	%	1	Std M 2540 B	11/09/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	76-13-1	
Acetone	Not detected	ug/kg	540	5035/8260B	11/11/12 17:59	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	540	5035/8260B	11/11/12 17:59	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	540	5035/8260B	11/11/12 17:59	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	156-59-2	
Chloroform	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	540	5035/8260B	11/11/12 17:59	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	540	5035/8260B	11/11/12 17:59	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	56-23-5	
Benzene	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	10061-01-5	
Toluene	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S54535.16 (continued)

Sample Tag: SB-A2-PH76_1.5'-2.5'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/11/12 17:59	WAT		
o-Xylene	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	95-47-6	
Styrene	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	98-82-8	
Bromoform	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	50	5035/8260B	11/11/12 17:59	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54535.17
Sample Tag: SB-A2-PH76_7'-8'
Collected Date/Time: 11/08/2012 13:30
Matrix: Soil
COC Reference: 68761

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.6	IR
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	89	%	1	Std M 2540 B	11/09/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	76-13-1	
Acetone	Not detected	ug/kg	620	5035/8260B	11/11/12 18:18	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	620	5035/8260B	11/11/12 18:18	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	620	5035/8260B	11/11/12 18:18	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	620	5035/8260B	11/11/12 18:18	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	620	5035/8260B	11/11/12 18:18	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S54535.17 (continued)

Sample Tag: SB-A2-PH76_7'-8'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/11/12 18:18	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:18	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54535.18
Sample Tag: SB-A2-Dup5
Collected Date/Time: 11/08/2012 00:01
Matrix: Soil
COC Reference: 68761

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.6	IR
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	89	%	1	Std M 2540 B	11/09/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	76-13-1	
Acetone	Not detected	ug/kg	640	5035/8260B	11/11/12 18:38	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	640	5035/8260B	11/11/12 18:38	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	640	5035/8260B	11/11/12 18:38	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	640	5035/8260B	11/11/12 18:38	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	640	5035/8260B	11/11/12 18:38	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S54535.18 (continued)

Sample Tag: SB-A2-Dup5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/11/12 18:38	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 18:38	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54535.19
Sample Tag: SB-A2-PH76_10'-14'
Collected Date/Time: 11/08/2012 13:40
Matrix: Groundwater
COC Reference: 68761

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	11/09/12 16:58	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	76-13-1	
Acetone	86	ug/L	10	SW8260B	11/11/12 18:47	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	11/11/12 18:47	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	1634-04-4	
2-Butanone (MEK)	26	ug/L	10	SW8260B	11/11/12 18:47	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	75-71-8	
Chloromethane	3	ug/L	1	SW8260B	11/11/12 18:47	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	74-83-9	
Chloroethane	7	ug/L	1	SW8260B	11/11/12 18:47	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	71-55-6	
Cyclohexane	20	ug/L	1	SW8260B	11/11/12 18:47	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	11/11/12 18:47	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	11/11/12 18:47	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	56-23-5	
Benzene	33	ug/L	1	SW8260B	11/11/12 18:47	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	75-27-4	
Methyl cyclohexane	8	ug/L	1	SW8260B	11/11/12 18:47	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	10061-01-5	
Toluene	4	ug/L	1	SW8260B	11/11/12 18:47	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	79-34-5	
Ethylbenzene	15	ug/L	1	SW8260B	11/11/12 18:47	WAT	100-41-4	
p,m-Xylene	26	ug/L	2	SW8260B	11/11/12 18:47	WAT		
o-Xylene	17	ug/L	1	SW8260B	11/11/12 18:47	WAT	95-47-6	



Analytical Laboratory Report

Lab Sample ID: S54535.19 (continued)

Sample Tag: SB-A2-PH76_10'-14'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Styrene	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	100-42-5	
Isopropylbenzene	28	ug/L	1	SW8260B	11/11/12 18:47	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	11/11/12 18:47	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S54535.20
Sample Tag: SB-A2-PH76_14'-15'
Collected Date/Time: 11/08/2012 13:55
Matrix: Soil
COC Reference: 68761

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.6	IR
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	90	%	1	Std M 2540 B	11/09/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	76-13-1	
Acetone	Not detected	ug/kg	700	5035/8260B	11/11/12 18:58	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	700	5035/8260B	11/11/12 18:58	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	700	5035/8260B	11/11/12 18:58	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	700	5035/8260B	11/11/12 18:58	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	700	5035/8260B	11/11/12 18:58	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	56-23-5	
Benzene	1,690	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S54535.20 (continued)

Sample Tag: SB-A2-PH76_14'-15'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/11/12 18:58	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	11/11/12 18:58	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54535.21
Sample Tag: SB-A2-PH76_19'-20'
Collected Date/Time: 11/08/2012 14:02
Matrix: Soil
COC Reference: 68761

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.6	IR
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	88	%	1	Std M 2540 B	11/09/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	76-13-1	
Acetone	Not detected	ug/kg	610	5035/8260B	11/11/12 19:17	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	610	5035/8260B	11/11/12 19:17	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	610	5035/8260B	11/11/12 19:17	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	610	5035/8260B	11/11/12 19:17	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	610	5035/8260B	11/11/12 19:17	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S54535.21 (continued)

Sample Tag: SB-A2-PH76_19'-20'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/11/12 19:17	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:17	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54535.22
Sample Tag: SB-A2-PH76_25'-26'
Collected Date/Time: 11/08/2012 14:05
Matrix: Soil
COC Reference: 68761

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.6	IR
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	62	%	1	Std M 2540 B	11/09/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	76-13-1	
Acetone	Not detected	ug/kg	1,100	5035/8260B	11/11/12 19:37	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	1,100	5035/8260B	11/11/12 19:37	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	1,100	5035/8260B	11/11/12 19:37	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	156-59-2	
Chloroform	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	1,100	5035/8260B	11/11/12 19:37	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	1,100	5035/8260B	11/11/12 19:37	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	56-23-5	
Benzene	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	10061-01-5	
Toluene	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S54535.22 (continued)

Sample Tag: SB-A2-PH76_25'-26'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	200	5035/8260B	11/11/12 19:37	WAT		
o-Xylene	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	95-47-6	
Styrene	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	100	5035/8260B	11/11/12 19:37	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S54535.23
Sample Tag: SB-A2-PH76_29'-30'
Collected Date/Time: 11/08/2012 14:10
Matrix: Soil
COC Reference: 68761

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.6	IR
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Total Solids	91	%	1	Std M 2540 B	11/09/12 12:00	RGS		
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	76-13-1	
Acetone	Not detected	ug/kg	620	5035/8260B	11/11/12 19:57	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	620	5035/8260B	11/11/12 19:57	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	620	5035/8260B	11/11/12 19:57	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	620	5035/8260B	11/11/12 19:57	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	620	5035/8260B	11/11/12 19:57	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S54535.23 (continued)

Sample Tag: SB-A2-PH76_29'-30'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	11/11/12 19:57	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	11/11/12 19:57	WAT	120-82-1	

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME **Randy Christensen**
COMPANY **ARCADIS**
ADDRESS **10559 Citiation Drive Suite 100**
CITY **Brighton** STATE **MI** ZIP CODE **48116**
PHONE NO. **810-225-1910** FAX NO. P.O. NO. **PO 125047**
E-MAIL ADDRESS **randy.christensen@arcadis-us.com** QUOTE NO. **Task#: 105**

CONTACT NAME **Dave Favero** ☐ SAME
COMPANY **RACER TRUST**
ADDRESS **2930 Ecorse Road**
CITY **Ypsilanti** STATE **MI** ZIP CODE **48198**
PHONE NO. **313-486-9208** E-MAIL ADDRESS **dfavero@racertrust.org**

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME **Lansing Plant 2 Project#: B0064479 2012** SAMPLER(S) - PLEASE PRINT/SIGN NAME **Alex Villhena / [Signature]**
TURNAROUND TIME REQUIRED ☐ 1 DAY ☒ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIFE A=AIR W=WASTE

Containers & Preservatives

MERIT LAB NO. FOR LAB USE ONLY	YEAR 2012		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	TCL	TCL	TAL	As, C	1,4 d	M	MS	☐ Other _____	Special Instructions
	DATE	TIME																			
54535.01	11/8	8:30	Trip blank		1						1		X								HNO ₃ preserved bottle is field filtered
.02	11/8	8:58	SB-A2-PCS2-2.5'-3.5'	S	2	1					1		X			X					
.03	11/8	9:10	SB-A2-PCS2-7'-8'	S	2	1					1		X			X					
.04	11/8	9:18	SB-A2-PCS2-12'-13'	S	2	1					1		X			X					
.05	11/8	9:35	SB-A2-PCS2-18'-19'	S	2	1					1		X			X					
.06	11/8	9:50	SB-A2-PCS2-23'-24'	S	2	1					1		X			X					
.07	11/8	9:50	SB-A2-PCS2-23'-24' MS	S	2	1					1		X			X		X			
.08	11/8	9:50	SB-A2-PCS2-23'-24' MSD	S	2	1					1		X			X		X			
.09	11/8	10:00	SB-A2-PCS2-25'-29'	GW	3	2	1						X			X					
.10	11/8	11:12	SB-A2-OX76-2'-3'	S	2	1					1		X								
.11	11/8	11:15	SB-A2-OX76-7'-8'	S	2	1					1		X								
.12	11/8	12:40	SB-A2-OX76-13'-14'	S	2	1					1		X								

RELINQUISHED BY: **[Signature] / PME** ☒ Sampler DATE **11/8/12** TIME **12:30**
RELINQUISHED BY: **PM Environmental Storage** DATE **11/8/12** TIME **12:30**
RELINQUISHED BY: DATE TIME
RELINQUISHED BY: **[Signature] Mer** DATE **11-9-12** TIME **9:50**

RELINQUISHED BY: **[Signature] Mer** DATE **11-9-12** TIME
RELINQUISHED BY: **Talison Faust** DATE **11-9-12** TIME **10:45**
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
NOTES: TEMP. ON ARRIVAL **4.6**
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

Merit

Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
 Phone (517) 332-0167 Fax (517) 332-4034
 www.meritlabs.com

C.O.C. PAGE # 2 OF 2

68761

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Randy Christensen			
COMPANY ARCADIS			
ADDRESS 10559 Citation Drive Suite 100			
CITY Brighton	STATE MI	ZIP CODE 48116	
PHONE NO. 810-225-1910	FAX NO.	P.O. NO. PO 125047	
E-MAIL ADDRESS randy.christensen@arcadis-us.com		QUOTE NO. Task#: 105	

CONTACT NAME Dave Favero		☐ SAME	
COMPANY RACER TRUST			
ADDRESS 2930 Ecorse Road			
CITY Ypsilanti	STATE MI	ZIP CODE 48198	
PHONE NO. 313-486-9208	E-MAIL ADDRESS dfavero@racertrust.org		

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Lansing Plant 2 Project#: B0064479.2012	SAMPLER(S) - PLEASE PRINT/SIGN NAME Alex Villhauer / <i>[Signature]</i>
TURNAROUND TIME REQUIRED ☐ 1 DAY ☒ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER	
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER	

MATRIX CODE:	GW=GROUNDWATER	WW=WASTEWATER	S=SOIL	L=LIQUID	SD=SOLID
	SL=SLUDGE	DW=DRINKING WATER	O=OIL	WP=WIPE	A=AIR
			W=WASTE		

MERIT LAB NO. FOR LAB USE ONLY	YEAR 2012		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	TCL	TCL	TAL	Ag, Cd	1,4c																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															</
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RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>[Signature]</i> / PME	☒ Sampler	DATE 11/8/12	TIME 17:30
RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>[Signature]</i> PM Environmental Storage		DATE 11/8/12	TIME 17:50
RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>[Signature]</i> mes		DATE 11-9-12	TIME 9:50

RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>[Signature]</i> MoA	DATE 11-9-12	TIME 10:45
RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>[Signature]</i> Tuller Forest		
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
NOTES:		TEMP. ON ARRIVAL 4.0

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



Analytical Laboratory Report

Report ID: S54672.01(01)
Generated on 11/21/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:

Andy Ball (andyball@meritlabs.com)
Tabitha Faust (tfaust@meritlabs.com)

Report Summary

Lab Sample ID(s): S54672.01
Project: Lansing Plant Project# B0064479.2012.00105
Collected Date: 11/20/2012
Submitted Date/Time: 11/20/2012 14:35
Sampled by: Austin Westhuis
P.O. #: N/A

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S54672.01	MW-12-18-(28-33)	Water	11/20/2012 14:00



Analytical Laboratory Report

Lab Sample ID: S54672.01

Sample Tag: MW-12-18-(28-33)

Collected Date/Time: 11/20/2012 14:00

Matrix: Water

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	15.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	11/21/12 12:20	WAT		
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Organics - Volatiles

TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	11/20/12 19:30	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	11/20/12 19:30	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	11/20/12 19:30	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	156-60-5	
1,1-Dichloroethane	2	ug/L	1	SW8260B	11/20/12 19:30	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	11/20/12 19:30	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	11/20/12 19:30	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	11/20/12 19:30	WAT		



Analytical Laboratory Report

Lab Sample ID: S54672.01 (continued)

Sample Tag: MW-12-18-(28-33)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
o-Xylene	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	11/20/12 19:30	WAT	96-12-8	

ID#: _____

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 1 of 1

Lab Work Order # _____

Send Results to:	Contact & Company Name: Randy Christensen / ARCADIS		Telephone: 810-225-1940		Preservative B										
	Address: 10559 Citation Dr, Suite 100		Fax: 810-229-8837		Filtered (✓)										
	City State Zip Brighton MI 48116		Email Address: Randy.Christensen@arcadis-us.com		# of Containers 3										
					Container Information										
PARAMETER ANALYSIS & METHOD															
Project Name/Location (City, State): RACER Trust / Lansing, MI					Project #: 80064419.2012.00105										
Sampler's Printed Name: Austin Westhuis					Sampler's Signature: <i>[Signature]</i>										
Sample ID		Collection		Type (✓)		Matrix									
		Date	Time	Comp	Grab										
MW-12-18-(28-33)		11/20/12	1400		✓	W		TAL VOC							

Special Instructions/Comments:
24 hour TAT

☐ Special QA/QC Instructions(✓):

Laboratory Information and Receipt		Relinquished By	Received By	Relinquished By	Laboratory Received By
Lab Name: Merit	Cooler Custody Seal (✓)	Printed Name: Austin Westhuis	Printed Name:	Printed Name:	Printed Name: Andrew Bell
☒ Cooler packed with ice (✓)	☐ Intact ☐ Not Intact	Signature: <i>[Signature]</i>	Signature:	Signature:	Signature: <i>[Signature]</i>
Specify Turnaround Requirements: 24 hour TAT	Sample Receipt: ON ICE	Firm: ARCADIS	Firm/Courier:	Firm/Courier:	Firm: Merit
Shipping Tracking #:	Condition/Cooler Temp: 15.2	Date/Time: 11/20/12 1435	Date/Time:	Date/Time:	Date/Time: 20 Nov 12 1435



Analytical Laboratory Report

Report ID: S54679.01(01)
Generated on 11/21/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:

Andy Ball (andyball@meritlabs.com)
Tabitha Faust (tfaust@meritlabs.com)

Report Summary

Lab Sample ID(s): S54679.01
Project: Lansing Plant 3 Project# B0064480.2012
Collected Date: 11/20/2012
Submitted Date/Time: 11/20/2012 15:30
Sampled by: Colleen Barton
P.O. #: N/A

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S54679.01	LMW-12-11(10-11)	Soil	11/20/2012 15:00



Analytical Laboratory Report

Lab Sample ID: S54679.01

Sample Tag: LMW-12-11(10-11)

Collected Date/Time: 11/20/2012 15:00

Matrix: Soil

COC Reference: 68726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz Glass	None	Yes	13.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Inorganics

Flashpoint for Solids	Not detected	mm/sec	2.2	SW1030	11/20/12 16:00	RGS		
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C.O.C. PAGE # 1 OF 1

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REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME				Randy Christensen			
COMPANY				ARCADIS			
ADDRESS				10559 Citation Drive Suite 100			
CITY			STATE		ZIP CODE		
Brighton			MI		48116		
PHONE NO.		FAX NO.		P.O. NO.			
810-225-1910				PO			
E-MAIL ADDRESS				QUOTE NO.			
randy.christensen@arcadis-us.com				Task#			

CONTACT NAME		Dave Favero		☐ SAME	
COMPANY		RACER TRUST			
ADDRESS		2930 Ecorse Road			
CITY		Ypsilanti		STATE	MI
				ZIP CODE	48198
PHONE NO.		E-MAIL ADDRESS			
313-486-9208		dfavero@racertrust.org			

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Lansing Plant 3 Project# B0064480.2012.	SAMPLER(S) - PLEASE PRINT/SIGN NAME <i>Colleen B. ...</i>
TURNAROUND TIME REQUIRED ☒ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER	
DELIVERABLES REQUIRED ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER	

MATRIX	GW=GROUNDWATER	WW=WASTEWATER	S=SOIL	L=LIQUID	SD=SOLID
CODE:	SL=SLUDGE	DW=DRINKING WATER	O=OIL	WP=WPIE	A=AIR W=WASTE

[illegible][illegible]

RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>CLB arcedis</i>	☒ ☐ Sampler	DATE 11-20-12	TIME 1530
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE		TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE		TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES:	TEMP. ON ARRIVAL	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS			

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



Analytical Laboratory Report

Revised Report

Report ID: S54776.01(02)

Generated on 12/17/2012

Replaces report S54776.01(01) generated on 12/07/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837

Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:

Andy Ball (andyball@meritlabs.com)

Tabitha Faust (tfaust@meritlabs.com)

Report Summary

Lab Sample ID(s): S54776.01-S54776.11

Project: Lansing Plant #2 Project# B0064479.2012

Collected Date: 11/30/2012

Submitted Date/Time: 12/03/2012 11:15

Sampled by: Alex Villhauer

P.O. #: PO125047

Changed sample tags on .01-.06 per client request

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

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Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Revised Report

Sample Summary (11 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S54776.01	SB-A2-OY47_2'-3'	Soil	11/30/2012 09:08
S54776.02	SB-A2-OY47_8'-9'	Soil	11/30/2012 09:20
S54776.03	SB-A2-OY47_18'-19'	Soil	11/30/2012 09:38
S54776.04	SB-A2-OY47_29'-30'	Soil	11/30/2012 09:56
S54776.05	SB-A2-OY47_29'-30' MS	Soil	11/30/2012 09:56
S54776.06	SB-A2-OY47_29'-30' MSD	Soil	11/30/2012 09:56
S54776.07	SB-A2-PQ53_7'-8'	Soil	11/30/2012 14:40
S54776.08	SB-A2-PQ53_15'-15.5'	Soil	11/30/2012 14:50
S54776.09	SB-A2-PM54_15'-15.5'	Soil	11/30/2012 15:15
S54776.10	SB-A2-PM54_12.5'-13.5'	Soil	11/30/2012 16:00
S54776.11	Trip Blank	Methanol	11/30/2012 08:30



Analytical Laboratory Report

Revised Report

Lab Sample ID: S54776.01
Sample Tag: SB-A2-OY47_2'-3'
Collected Date/Time: 11/30/2012 09:08
Matrix: Soil
COC Reference: 82419

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3050B	12/06/12 01:00	SLR		
Inorganics								
Total Solids	90	%	1	Std M 2540 B	12/03/12 13:00	RGS		
Metals								
Arsenic	0.49	mg/kg	0.10	SW6020	12/06/12 18:42	SLS	7440-38-2	
Cobalt	1.52	mg/kg	0.20	SW6020	12/06/12 18:42	SLS	7440-48-4	
Manganese	37.1	mg/kg	0.20	SW6020	12/06/12 18:42	SLS	7439-96-5	
Silver	Not detected	mg/kg	0.02	SW6020	12/06/12 18:42	SLS	7440-22-4	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S54776.02
Sample Tag: SB-A2-OY47_8'-9'
Collected Date/Time: 11/30/2012 09:20
Matrix: Soil
COC Reference: 82419

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3050B	12/06/12 01:00	SLR		
Inorganics								
Total Solids	90	%	1	Std M 2540 B	12/03/12 13:00	RGS		
Metals								
Arsenic	1.78	mg/kg	0.10	SW6020	12/06/12 18:46	SLS	7440-38-2	
Cobalt	2.99	mg/kg	0.20	SW6020	12/06/12 18:46	SLS	7440-48-4	
Manganese	186	mg/kg	0.20	SW6020	12/06/12 18:46	SLS	7439-96-5	
Silver	Not detected	mg/kg	0.02	SW6020	12/06/12 18:46	SLS	7440-22-4	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S54776.03
Sample Tag: SB-A2-OY47_18'-19'
Collected Date/Time: 11/30/2012 09:38
Matrix: Soil
COC Reference: 82419

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	12/06/12 01:00	SLR		
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Inorganics

Total Solids	92	%	1	Std M 2540 B	12/03/12 13:00	RGS		
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Metals

Arsenic	1.87	mg/kg	0.10	SW6020	12/06/12 18:50	SLS	7440-38-2	
Cobalt	3.01	mg/kg	0.20	SW6020	12/06/12 18:50	SLS	7440-48-4	
Manganese	208	mg/kg	0.20	SW6020	12/06/12 18:50	SLS	7439-96-5	
Silver	0.02	mg/kg	0.02	SW6020	12/06/12 18:50	SLS	7440-22-4	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S54776.04
Sample Tag: SB-A2-OY47_29'-30'
Collected Date/Time: 11/30/2012 09:56
Matrix: Soil
COC Reference: 82419

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	12/06/12 01:00	SLR		
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Inorganics

Total Solids	89	%	1	Std M 2540 B	12/03/12 13:00	RGS		
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Metals

Arsenic	1.98	mg/kg	0.10	SW6020	12/06/12 19:19	SLS	7440-38-2	
Cobalt	3.08	mg/kg	0.20	SW6020	12/06/12 19:19	SLS	7440-48-4	
Manganese	237	mg/kg	0.20	SW6020	12/06/12 19:19	SLS	7439-96-5	
Silver	0.03	mg/kg	0.02	SW6020	12/06/12 19:19	SLS	7440-22-4	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S54776.05

Sample Tag: SB-A2-OY47_29'-30' MS

Collected Date/Time: 11/30/2012 09:56

Matrix: Soil

COC Reference: 82419

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	12/06/12 01:00	SLR		
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Inorganics

Total Solids	90	%	1	Std M 2540 B	12/03/12 13:00	RGS		
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Metals

Arsenic	23.2	mg/kg	0.10	SW6020	12/06/12 19:23	SLS	7440-38-2	
Cobalt	24.9	mg/kg	0.50	SW6020	12/06/12 19:23	SLS	7440-48-4	
Manganese	236	mg/kg	0.50	SW6020	12/06/12 19:23	SLS	7439-96-5	
Silver	20.43	mg/kg	0.20	SW6020	12/06/12 19:23	SLS	7440-22-4	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S54776.06
Sample Tag: SB-A2-OY47_29'-30' MSD
Collected Date/Time: 11/30/2012 09:56
Matrix: Soil
COC Reference: 82419

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3050B	12/06/12 01:00	SLR		
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Inorganics

Total Solids	89	%	1	Std M 2540 B	12/03/12 13:00	RGS		
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Metals

Arsenic	23.3	mg/kg	0.10	SW6020	12/06/12 19:27	SLS	7440-38-2	
Cobalt	24.8	mg/kg	0.50	SW6020	12/06/12 19:27	SLS	7440-48-4	
Manganese	235	mg/kg	0.50	SW6020	12/06/12 19:27	SLS	7439-96-5	
Silver	20.69	mg/kg	0.20	SW6020	12/06/12 19:27	SLS	7440-22-4	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S54776.07

Sample Tag: SB-A2-PQ53_7'-8'

Collected Date/Time: 11/30/2012 14:40

Matrix: Soil

COC Reference: 82419

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	12/03/12 20:14	EMR		
Mercury Digestion	Completed			SW7471A	12/05/12 14:00	JRH		
Metal Digestion	Completed			3050B	12/06/12 01:00	SLR		

Inorganics

Total Solids	90	%	1	Std M 2540 B	12/03/12 13:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.19	SW6020	12/06/12 18:54	SLS	7440-36-0	
Arsenic	1.55	mg/kg	0.10	SW6020	12/06/12 18:54	SLS	7440-38-2	
Barium	32.7	mg/kg	1.0	SW6020	12/06/12 18:54	SLS	7440-39-3	
Boron	Not detected	mg/kg	3.9	SW6020	12/06/12 18:54	SLS	7440-42-8	
Cadmium	0.14	mg/kg	0.10	SW6020	12/06/12 18:54	SLS	7440-43-9	
Chromium	4.02	mg/kg	0.19	SW6020	12/06/12 18:54	SLS	7440-47-3	
Cobalt	2.94	mg/kg	0.19	SW6020	12/06/12 18:54	SLS	7440-48-4	
Copper	8.65	mg/kg	0.19	SW6020	12/06/12 18:54	SLS	7440-50-8	
Lead	7.93	mg/kg	0.19	SW6020	12/06/12 18:54	SLS	7439-92-1	
Manganese	193	mg/kg	0.19	SW6020	12/06/12 18:54	SLS	7439-96-5	
Mercury	0.0124	mg/kg	0.0055	SW7471A	12/05/12 16:44	JRT	7439-97-6	
Nickel	6.17	mg/kg	0.19	SW6020	12/06/12 18:54	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.10	SW6020	12/06/12 18:54	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.02	SW6020	12/06/12 18:54	SLS	7440-22-4	
Vanadium	6.16	mg/kg	0.19	SW6020	12/06/12 18:54	SLS	7440-62-2	
Zinc	19.7	mg/kg	1.0	SW6020	12/06/12 18:54	SLS	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	208-96-8	
Acetophenone	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	98-86-2	
Anthracene	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	SW8270C	12/04/12 19:25	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	100-52-7	
Benzo(a)anthracene	200	ug/kg	100	SW8270C	12/04/12 19:25	PL	56-55-3	
Benzo(a)pyrene	200	ug/kg	100	SW8270C	12/04/12 19:25	PL	50-32-8	
Benzo(b)fluoranthene	200	ug/kg	100	SW8270C	12/04/12 19:25	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	191-24-2	
Benzo(k)fluoranthene	200	ug/kg	100	SW8270C	12/04/12 19:25	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	85-68-7	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S54776.07 (continued)

Sample Tag: SB-A2-PQ53_7'-8'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Chloronaphthalene	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	105-60-2	
Carbazole	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	108-60-1	
Chrysene	300	ug/kg	100	SW8270C	12/04/12 19:25	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	SW8270C	12/04/12 19:25	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	SW8270C	12/04/12 19:25	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	SW8270C	12/04/12 19:25	PL	117-81-7	
Fluoranthene	500	ug/kg	100	SW8270C	12/04/12 19:25	PL	206-44-0	
Fluorene	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	SW8270C	12/04/12 19:25	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	86-30-6	
Naphthalene	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	SW8270C	12/04/12 19:25	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	87-86-5	
Phenanthrene	300	ug/kg	100	SW8270C	12/04/12 19:25	PL	85-01-8	
Phenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	108-95-2	
Pyrene	400	ug/kg	100	SW8270C	12/04/12 19:25	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	95-95-4	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S54776.07 (continued)

Sample Tag: SB-A2-PQ53_7'-8'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,6-Trichlorophenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:25	PL	88-06-2	
Organics - Volatiles								
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	76-13-1	
Acetone	Not detected	ug/kg	610	5035/8260B	12/05/12 23:41	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	610	5035/8260B	12/05/12 23:41	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	610	5035/8260B	12/05/12 23:41	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	610	5035/8260B	12/05/12 23:41	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	610	5035/8260B	12/05/12 23:41	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	12/05/12 23:41	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	541-73-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S54776.07 (continued)

Sample Tag: SB-A2-PQ53_7'-8'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	12/05/12 23:41	WAT	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S54776.08

Sample Tag: SB-A2-PQ53_15'-15.5'

Collected Date/Time: 11/30/2012 14:50

Matrix: Soil

COC Reference: 82419

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	12/03/12 20:14	EMR		
Mercury Digestion	Completed			SW7471A	12/05/12 14:00	JRH		
Metal Digestion	Completed			3050B	12/06/12 01:00	SLR		

Inorganics

Total Solids	89	%	1	Std M 2540 B	12/03/12 13:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	SW6020	12/06/12 18:58	SLS	7440-36-0	
Arsenic	0.94	mg/kg	0.10	SW6020	12/06/12 18:58	SLS	7440-38-2	
Barium	15.4	mg/kg	1.0	SW6020	12/06/12 18:58	SLS	7440-39-3	
Boron	Not detected	mg/kg	3.9	SW6020	12/06/12 18:58	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	SW6020	12/06/12 18:58	SLS	7440-43-9	
Chromium	2.27	mg/kg	0.20	SW6020	12/06/12 18:58	SLS	7440-47-3	
Cobalt	1.70	mg/kg	0.20	SW6020	12/06/12 18:58	SLS	7440-48-4	
Copper	4.68	mg/kg	0.20	SW6020	12/06/12 18:58	SLS	7440-50-8	
Lead	3.59	mg/kg	0.20	SW6020	12/06/12 18:58	SLS	7439-92-1	
Manganese	243	mg/kg	0.20	SW6020	12/06/12 18:58	SLS	7439-96-5	
Mercury	0.0264	mg/kg	0.0055	SW7471A	12/05/12 16:46	JRT	7439-97-6	
Nickel	3.89	mg/kg	0.20	SW6020	12/06/12 18:58	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.10	SW6020	12/06/12 18:58	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.02	SW6020	12/06/12 18:58	SLS	7440-22-4	
Vanadium	4.02	mg/kg	0.20	SW6020	12/06/12 18:58	SLS	7440-62-2	
Zinc	9.4	mg/kg	1.0	SW6020	12/06/12 18:58	SLS	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	208-96-8	
Acetophenone	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	98-86-2	
Anthracene	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	SW8270C	12/04/12 19:58	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	100-52-7	
Benzo(a)anthracene	200	ug/kg	100	SW8270C	12/04/12 19:58	PL	56-55-3	
Benzo(a)pyrene	200	ug/kg	100	SW8270C	12/04/12 19:58	PL	50-32-8	
Benzo(b)fluoranthene	200	ug/kg	100	SW8270C	12/04/12 19:58	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	191-24-2	
Benzo(k)fluoranthene	200	ug/kg	100	SW8270C	12/04/12 19:58	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	85-68-7	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S54776.08 (continued)

Sample Tag: SB-A2-PQ53_15'-15.5'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Chloronaphthalene	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	105-60-2	
Carbazole	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	108-60-1	
Chrysene	300	ug/kg	100	SW8270C	12/04/12 19:58	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	SW8270C	12/04/12 19:58	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	SW8270C	12/04/12 19:58	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	SW8270C	12/04/12 19:58	PL	117-81-7	
Fluoranthene	400	ug/kg	100	SW8270C	12/04/12 19:58	PL	206-44-0	
Fluorene	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	SW8270C	12/04/12 19:58	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	86-30-6	
Naphthalene	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	SW8270C	12/04/12 19:58	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	87-86-5	
Phenanthrene	200	ug/kg	100	SW8270C	12/04/12 19:58	PL	85-01-8	
Phenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	108-95-2	
Pyrene	300	ug/kg	100	SW8270C	12/04/12 19:58	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	95-95-4	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S54776.08 (continued)

Sample Tag: SB-A2-PQ53_15'-15.5'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,6-Trichlorophenol	Not detected	ug/kg	100	SW8270C	12/04/12 19:58	PL	88-06-2	
Organics - Volatiles								
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	76-13-1	
Acetone	Not detected	ug/kg	620	5035/8260B	12/06/12 00:00	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	620	5035/8260B	12/06/12 00:00	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	620	5035/8260B	12/06/12 00:00	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	620	5035/8260B	12/06/12 00:00	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	620	5035/8260B	12/06/12 00:00	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	12/06/12 00:00	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	541-73-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S54776.08 (continued)

Sample Tag: SB-A2-PQ53_15'-15.5'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:00	WAT	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S54776.09

Sample Tag: SB-A2-PM54_15'-15.5'

Collected Date/Time: 11/30/2012 15:15

Matrix: Soil

COC Reference: 82419

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	12/03/12 20:14	EMR		
Mercury Digestion	Completed			SW7471A	12/05/12 14:00	JRH		
Metal Digestion	Completed			3050B	12/06/12 01:00	SLR		

Inorganics

Total Solids	91	%	1	Std M 2540 B	12/03/12 13:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	SW6020	12/06/12 19:02	SLS	7440-36-0	
Arsenic	1.94	mg/kg	0.10	SW6020	12/06/12 19:02	SLS	7440-38-2	
Barium	24.3	mg/kg	1.0	SW6020	12/06/12 19:02	SLS	7440-39-3	
Boron	Not detected	mg/kg	4.0	SW6020	12/06/12 19:02	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	SW6020	12/06/12 19:02	SLS	7440-43-9	
Chromium	3.94	mg/kg	0.20	SW6020	12/06/12 19:02	SLS	7440-47-3	
Cobalt	2.65	mg/kg	0.20	SW6020	12/06/12 19:02	SLS	7440-48-4	
Copper	7.70	mg/kg	0.20	SW6020	12/06/12 19:02	SLS	7440-50-8	
Lead	3.75	mg/kg	0.20	SW6020	12/06/12 19:02	SLS	7439-92-1	
Manganese	199	mg/kg	0.20	SW6020	12/06/12 19:02	SLS	7439-96-5	
Mercury	0.0082	mg/kg	0.0055	SW7471A	12/05/12 16:48	JRT	7439-97-6	
Nickel	6.43	mg/kg	0.20	SW6020	12/06/12 19:02	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.10	SW6020	12/06/12 19:02	SLS	7782-49-2	
Silver	0.02	mg/kg	0.02	SW6020	12/06/12 19:02	SLS	7440-22-4	
Vanadium	5.73	mg/kg	0.20	SW6020	12/06/12 19:02	SLS	7440-62-2	
Zinc	12.2	mg/kg	1.0	SW6020	12/06/12 19:02	SLS	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	208-96-8	
Acetophenone	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	98-86-2	
Anthracene	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	SW8270C	12/04/12 20:31	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	85-68-7	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S54776.09 (continued)

Sample Tag: SB-A2-PM54_15'-15.5'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Chloronaphthalene	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	105-60-2	
Carbazole	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	108-60-1	
Chrysene	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	SW8270C	12/04/12 20:31	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	SW8270C	12/04/12 20:31	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	SW8270C	12/04/12 20:31	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	206-44-0	
Fluorene	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	SW8270C	12/04/12 20:31	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	86-30-6	
Naphthalene	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	SW8270C	12/04/12 20:31	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	85-01-8	
Phenol	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	108-95-2	
Pyrene	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	95-95-4	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S54776.09 (continued)

Sample Tag: SB-A2-PM54_15'-15.5'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,6-Trichlorophenol	Not detected	ug/kg	100	SW8270C	12/04/12 20:31	PL	88-06-2	
Organics - Volatiles								
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	76-13-1	
Acetone	Not detected	ug/kg	600	5035/8260B	12/06/12 00:20	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	600	5035/8260B	12/06/12 00:20	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	600	5035/8260B	12/06/12 00:20	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	600	5035/8260B	12/06/12 00:20	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	600	5035/8260B	12/06/12 00:20	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	12/06/12 00:20	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	541-73-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S54776.09 (continued)

Sample Tag: SB-A2-PM54_15'-15.5'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:20	WAT	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S54776.10
Sample Tag: SB-A2-PM54_12.5'-13.5'
Collected Date/Time: 11/30/2012 16:00
Matrix: Soil
COC Reference: 82419

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	12/03/12 20:14	EMR		
Mercury Digestion	Completed			SW7471A	12/05/12 14:00	JRH		
Metal Digestion	Completed			3050B	12/06/12 01:00	SLR		

Inorganics

Total Solids	94	%	1	Std M 2540 B	12/03/12 13:00	RGS		
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Metals

Antimony	Not detected	mg/kg	0.20	SW6020	12/06/12 19:07	SLS	7440-36-0	
Arsenic	0.54	mg/kg	0.10	SW6020	12/06/12 19:07	SLS	7440-38-2	
Barium	4.2	mg/kg	1.0	SW6020	12/06/12 19:07	SLS	7440-39-3	
Boron	Not detected	mg/kg	4.0	SW6020	12/06/12 19:07	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.10	SW6020	12/06/12 19:07	SLS	7440-43-9	
Chromium	0.87	mg/kg	0.20	SW6020	12/06/12 19:07	SLS	7440-47-3	
Cobalt	0.91	mg/kg	0.20	SW6020	12/06/12 19:07	SLS	7440-48-4	
Copper	1.95	mg/kg	0.20	SW6020	12/06/12 19:07	SLS	7440-50-8	
Lead	0.99	mg/kg	0.20	SW6020	12/06/12 19:07	SLS	7439-92-1	
Manganese	119	mg/kg	0.20	SW6020	12/06/12 19:07	SLS	7439-96-5	
Mercury	Not detected	mg/kg	0.0053	SW7471A	12/05/12 16:54	JRT	7439-97-6	
Nickel	1.90	mg/kg	0.20	SW6020	12/06/12 19:07	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.10	SW6020	12/06/12 19:07	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.02	SW6020	12/06/12 19:07	SLS	7440-22-4	
Vanadium	1.47	mg/kg	0.20	SW6020	12/06/12 19:07	SLS	7440-62-2	
Zinc	3.9	mg/kg	1.0	SW6020	12/06/12 19:07	SLS	7440-66-6	

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	208-96-8	
Acetophenone	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	98-86-2	
Anthracene	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	120-12-7	
Atrazine	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	SW8270C	12/04/12 21:04	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	85-68-7	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S54776.10 (continued)

Sample Tag: SB-A2-PM54_12.5'-13.5'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2-Chloronaphthalene	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	105-60-2	
Carbazole	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	108-60-1	
Chrysene	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	SW8270C	12/04/12 21:04	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	SW8270C	12/04/12 21:04	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	SW8270C	12/04/12 21:04	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	206-44-0	
Fluorene	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	193-39-5	
Isophorone	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	SW8270C	12/04/12 21:04	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	86-30-6	
Naphthalene	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	SW8270C	12/04/12 21:04	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	85-01-8	
Phenol	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	108-95-2	
Pyrene	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	95-95-4	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S54776.10 (continued)

Sample Tag: SB-A2-PM54_12.5'-13.5'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,6-Trichlorophenol	Not detected	ug/kg	100	SW8270C	12/04/12 21:04	PL	88-06-2	
Organics - Volatiles								
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	76-13-1	
Acetone	Not detected	ug/kg	590	5035/8260B	12/06/12 00:40	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	590	5035/8260B	12/06/12 00:40	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	590	5035/8260B	12/06/12 00:40	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	590	5035/8260B	12/06/12 00:40	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	590	5035/8260B	12/06/12 00:40	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	12/06/12 00:40	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	541-73-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S54776.10 (continued)

Sample Tag: SB-A2-PM54_12.5'-13.5'

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	12/06/12 00:40	WAT	120-82-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S54776.11
Sample Tag: Trip Blank
Collected Date/Time: 11/30/2012 08:30
Matrix: Methanol
COC Reference: 82419

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

TCL Volatile Organics HighLevl 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	76-13-1	
Acetone	Not detected	ug/kg	500	5035/8260B	12/05/12 20:03	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	500	5035/8260B	12/05/12 20:03	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	500	5035/8260B	12/05/12 20:03	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	156-59-2	
Chloroform	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	500	5035/8260B	12/05/12 20:03	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	500	5035/8260B	12/05/12 20:03	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	56-23-5	
Benzene	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	10061-01-5	
Toluene	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	12/05/12 20:03	WAT		
o-Xylene	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	95-47-6	
Styrene	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	100-42-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S54776.11 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevl 5035/8260 (continued)								
Isopropylbenzene	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	98-82-8	
Bromoform	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	50	5035/8260B	12/05/12 20:03	WAT	120-82-1	



Analytical Laboratory Report

Report ID: S55003.01(01)
Generated on 12/27/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:

Andy Ball (andyball@meritlabs.com)
Tabitha Faust (tfaust@meritlabs.com)

Report Summary

Lab Sample ID(s): S55003.01-S55003.08
Project: Lansing Plant #2 Project# B0064479.2012
Collected Date: 12/18/2012
Submitted Date/Time: 12/19/2012 09:30
Sampled by: Alex Villhauer
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (8 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S55003.01	MW-12-01	Groundwater	12/18/2012 12:46
S55003.02	Field Blank-1	Groundwater	12/18/2012 14:00
S55003.03	MW-12-02	Groundwater	12/18/2012 14:10
S55003.04	P2-MW-01	Groundwater	12/18/2012 15:05
S55003.05	MW-12-06	Groundwater	12/18/2012 17:20
S55003.06	MW-12-06 MS	Groundwater	12/18/2012 17:20
S55003.07	MW-12-06 MSD	Groundwater	12/18/2012 17:20
S55003.08	Trip Blank	Groundwater	12/18/2012 09:00



Analytical Laboratory Report

Lab Sample ID: S55003.01
Sample Tag: MW-12-01
Collected Date/Time: 12/18/2012 12:46
Matrix: Groundwater
COC Reference: 78975

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	1L Amber	None	Yes	5.0	IR
2	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	12/20/12 19:52	EMR		
Extraction, PCB	Completed			3510C	12/19/12 11:08	ADB		
Mercury Digestion	Completed			SW7471A	12/20/12 14:00	JRH		
Metal Digestion	Completed			3015A	12/26/12 01:00	SLR		
pH check for VOCs	<2	STD Units		N/A	12/26/12 21:48	WAT		

Metals

Antimony	Not detected	mg/L	0.002	SW6020	12/26/12 15:22	SLS	7440-36-0
Arsenic	Not detected	mg/L	0.002	SW6020	12/26/12 15:22	SLS	7440-38-2
Barium	0.038	mg/L	0.010	SW6020	12/26/12 15:22	SLS	7440-39-3
Boron	0.08	mg/L	0.04	SW6020	12/26/12 15:22	SLS	7440-42-8
Cadmium	Not detected	mg/L	0.001	SW6020	12/26/12 15:22	SLS	7440-43-9
Chromium	Not detected	mg/L	0.010	SW6020	12/26/12 15:22	SLS	7440-47-3
Cobalt	Not detected	mg/L	0.010	SW6020	12/26/12 15:22	SLS	7440-48-4
Copper	Not detected	mg/L	0.002	SW6020	12/26/12 15:22	SLS	7440-50-8
Lead	Not detected	mg/L	0.002	SW6020	12/26/12 15:22	SLS	7439-92-1
Manganese	0.427	mg/L	0.010	SW6020	12/26/12 15:22	SLS	7439-96-5
Mercury	Not detected	mg/L	0.0001	SW7471A	12/20/12 17:03	JRT	7439-97-6
Nickel	Not detected	mg/L	0.010	SW6020	12/26/12 15:22	SLS	7440-02-0
Selenium	Not detected	mg/L	0.002	SW6020	12/26/12 15:22	SLS	7782-49-2
Silver	Not detected	mg/L	0.0002	SW6020	12/26/12 15:22	SLS	7440-22-4
Vanadium	Not detected	mg/L	0.002	SW6020	12/26/12 15:22	SLS	7440-62-2
Zinc	Not detected	mg/L	0.010	SW6020	12/26/12 15:22	SLS	7440-66-6

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/L	0.05	SW8082A	12/19/12 13:50	JAN	12674-11-2
PCB-1242	Not detected	ug/L	0.1	SW8082A	12/19/12 13:50	JAN	53469-21-9
PCB-1221	Not detected	ug/L	0.1	SW8082A	12/19/12 13:50	JAN	11104-28-2
PCB-1232	Not detected	ug/L	0.1	SW8082A	12/19/12 13:50	JAN	11141-16-5
PCB-1248	Not detected	ug/L	0.1	SW8082A	12/19/12 13:50	JAN	12672-29-6
PCB-1254	Not detected	ug/L	0.1	SW8082A	12/19/12 13:50	JAN	11097-69-1
PCB-1260	Not detected	ug/L	0.05	SW8082A	12/19/12 13:50	JAN	11096-82-5

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	83-32-9
Acenaphthylene	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	208-96-8
Acetophenone	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	98-86-2
Anthracene	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	120-12-7
Atrazine	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	1912-24-9



Analytical Laboratory Report

Lab Sample ID: S55003.01 (continued)

Sample Tag: MW-12-01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	12/21/12 17:12	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	3	ug/L	1	SW8270C	12/21/12 17:12	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	86-30-6	



Analytical Laboratory Report

Lab Sample ID: S55003.01 (continued)

Sample Tag: MW-12-01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Naphthalene	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 17:12	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	12/20/12 19:10	JGH	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	12/26/12 18:35	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	12/26/12 18:35	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	12/26/12 18:35	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	12/26/12 18:35	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	12/26/12 18:35	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S55003.01 (continued)

Sample Tag: MW-12-01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/26/12 18:35	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	12/26/12 18:35	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S55003.02
Sample Tag: Field Blank-1
Collected Date/Time: 12/18/2012 14:00
Matrix: Groundwater
COC Reference: 78975

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.0	IR
2	40ml Glass	HCL	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	12/20/12 19:52	EMR		
pH check for VOCs	<2	STD Units		N/A	12/26/12 21:48	WAT		

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	83-32-9
Acenaphthylene	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	208-96-8
Acetophenone	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	98-86-2
Anthracene	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	120-12-7
Atrazine	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	1912-24-9
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	92-52-4
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	101-55-3
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	84-74-2
Benzaldehyde	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	100-52-7
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	56-55-3
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	50-32-8
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	205-99-2
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	191-24-2
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	207-08-9
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	85-68-7
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	91-58-7
2-Chlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	95-57-8
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	59-50-7
4-Chloroaniline	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	106-47-8
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	7005-72-3
Caprolactam	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	105-60-2
Carbazole	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	86-74-8
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	111-91-1
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	111-44-4
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	108-60-1
Chrysene	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	218-01-9
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	120-83-2
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	105-67-9
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	51-28-5
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	121-14-2
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	606-20-2
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	534-52-1
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	12/21/12 17:45	PL	53-70-3
Dibenzofuran	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	132-64-9
Diethyl phthalate	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	84-66-2
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	131-11-3
bis(2-Ethylhexyl)phthalate	1	ug/L	1	SW8270C	12/21/12 17:45	PL	117-81-7



Analytical Laboratory Report

Lab Sample ID: S55003.02 (continued)

Sample Tag: Field Blank-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Fluoranthene	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 17:45	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	12/20/12 19:28	JGH	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	12/26/12 18:57	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	12/26/12 18:57	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	12/26/12 18:57	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	156-59-2	
Chloroform	7	ug/L	1	SW8260B	12/26/12 18:57	WAT	67-66-3	



Analytical Laboratory Report

Lab Sample ID: S55003.02 (continued)

Sample Tag: Field Blank-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	12/26/12 18:57	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	12/26/12 18:57	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	78-87-5	
Bromodichloromethane	3	ug/L	1	SW8260B	12/26/12 18:57	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/26/12 18:57	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	12/26/12 18:57	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S55003.03
Sample Tag: MW-12-02
Collected Date/Time: 12/18/2012 14:10
Matrix: Groundwater
COC Reference: 78975

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	1L Amber	None	Yes	5.0	IR
2	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	12/20/12 19:52	EMR		
Extraction, PCB	Completed			3510C	12/19/12 11:08	ADB		
Mercury Digestion	Completed			SW7471A	12/20/12 14:00	JRH		
Metal Digestion	Completed			3015A	12/26/12 01:00	SLR		
pH check for VOCs	<2	STD Units		N/A	12/26/12 21:48	WAT		

Metals

Antimony	Not detected	mg/L	0.002	SW6020	12/26/12 15:26	SLS	7440-36-0
Arsenic	0.010	mg/L	0.002	SW6020	12/26/12 15:26	SLS	7440-38-2
Barium	0.210	mg/L	0.010	SW6020	12/26/12 15:26	SLS	7440-39-3
Boron	0.06	mg/L	0.04	SW6020	12/26/12 15:26	SLS	7440-42-8
Cadmium	Not detected	mg/L	0.001	SW6020	12/26/12 15:26	SLS	7440-43-9
Chromium	Not detected	mg/L	0.010	SW6020	12/26/12 15:26	SLS	7440-47-3
Cobalt	Not detected	mg/L	0.010	SW6020	12/26/12 15:26	SLS	7440-48-4
Copper	Not detected	mg/L	0.002	SW6020	12/26/12 15:26	SLS	7440-50-8
Lead	Not detected	mg/L	0.002	SW6020	12/26/12 15:26	SLS	7439-92-1
Manganese	0.157	mg/L	0.010	SW6020	12/26/12 15:26	SLS	7439-96-5
Mercury	Not detected	mg/L	0.0001	SW7471A	12/20/12 17:05	JRT	7439-97-6
Nickel	Not detected	mg/L	0.010	SW6020	12/26/12 15:26	SLS	7440-02-0
Selenium	Not detected	mg/L	0.002	SW6020	12/26/12 15:26	SLS	7782-49-2
Silver	Not detected	mg/L	0.0002	SW6020	12/26/12 15:26	SLS	7440-22-4
Vanadium	Not detected	mg/L	0.002	SW6020	12/26/12 15:26	SLS	7440-62-2
Zinc	Not detected	mg/L	0.010	SW6020	12/26/12 15:26	SLS	7440-66-6

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/L	0.05	SW8082A	12/19/12 14:00	JAN	12674-11-2
PCB-1242	Not detected	ug/L	0.1	SW8082A	12/19/12 14:00	JAN	53469-21-9
PCB-1221	Not detected	ug/L	0.1	SW8082A	12/19/12 14:00	JAN	11104-28-2
PCB-1232	Not detected	ug/L	0.1	SW8082A	12/19/12 14:00	JAN	11141-16-5
PCB-1248	Not detected	ug/L	0.1	SW8082A	12/19/12 14:00	JAN	12672-29-6
PCB-1254	Not detected	ug/L	0.1	SW8082A	12/19/12 14:00	JAN	11097-69-1
PCB-1260	Not detected	ug/L	0.05	SW8082A	12/19/12 14:00	JAN	11096-82-5

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	83-32-9
Acenaphthylene	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	208-96-8
Acetophenone	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	98-86-2
Anthracene	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	120-12-7
Atrazine	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	1912-24-9



Analytical Laboratory Report

Lab Sample ID: S55003.03 (continued)

Sample Tag: MW-12-02

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	12/21/12 18:18	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	1	ug/L	1	SW8270C	12/21/12 18:18	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	86-30-6	



Analytical Laboratory Report

Lab Sample ID: S55003.03 (continued)

Sample Tag: MW-12-02

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Naphthalene	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 18:18	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	12/20/12 19:47	JGH	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	12/26/12 20:26	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	12/26/12 20:26	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	12/26/12 20:26	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	12/26/12 20:26	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	12/26/12 20:26	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S55003.03 (continued)

Sample Tag: MW-12-02

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/26/12 20:26	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	12/26/12 20:26	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S55003.04
Sample Tag: P2-MW-01
Collected Date/Time: 12/18/2012 15:05
Matrix: Groundwater
COC Reference: 78975

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	1L Amber	None	Yes	5.0	IR
2	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	12/20/12 19:52	EMR		
Extraction, PCB	Completed			3510C	12/19/12 11:08	ADB		
Mercury Digestion	Completed			SW7471A	12/20/12 14:00	JRH		
Metal Digestion	Completed			3015A	12/26/12 01:00	SLR		
pH check for VOCs	<2	STD Units		N/A	12/26/12 21:48	WAT		

Metals

Antimony	Not detected	mg/L	0.002	SW6020	12/26/12 16:27	SLS	7440-36-0
Arsenic	Not detected	mg/L	0.002	SW6020	12/26/12 16:27	SLS	7440-38-2
Barium	0.080	mg/L	0.010	SW6020	12/26/12 16:27	SLS	7440-39-3
Boron	Not detected	mg/L	0.04	SW6020	12/26/12 16:27	SLS	7440-42-8
Cadmium	Not detected	mg/L	0.001	SW6020	12/26/12 16:27	SLS	7440-43-9
Chromium	Not detected	mg/L	0.010	SW6020	12/26/12 16:27	SLS	7440-47-3
Cobalt	Not detected	mg/L	0.010	SW6020	12/26/12 16:27	SLS	7440-48-4
Copper	0.010	mg/L	0.002	SW6020	12/26/12 16:27	SLS	7440-50-8
Lead	Not detected	mg/L	0.002	SW6020	12/26/12 16:27	SLS	7439-92-1
Manganese	Not detected	mg/L	0.010	SW6020	12/26/12 16:27	SLS	7439-96-5
Mercury	Not detected	mg/L	0.0001	SW7471A	12/20/12 17:07	JRT	7439-97-6
Nickel	Not detected	mg/L	0.010	SW6020	12/26/12 16:27	SLS	7440-02-0
Selenium	Not detected	mg/L	0.002	SW6020	12/26/12 16:27	SLS	7782-49-2
Silver	Not detected	mg/L	0.0002	SW6020	12/26/12 16:27	SLS	7440-22-4
Vanadium	Not detected	mg/L	0.002	SW6020	12/26/12 16:27	SLS	7440-62-2
Zinc	Not detected	mg/L	0.010	SW6020	12/26/12 16:27	SLS	7440-66-6

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/L	0.05	SW8082A	12/19/12 14:11	JAN	12674-11-2
PCB-1242	Not detected	ug/L	0.1	SW8082A	12/19/12 14:11	JAN	53469-21-9
PCB-1221	Not detected	ug/L	0.1	SW8082A	12/19/12 14:11	JAN	11104-28-2
PCB-1232	Not detected	ug/L	0.1	SW8082A	12/19/12 14:11	JAN	11141-16-5
PCB-1248	Not detected	ug/L	0.1	SW8082A	12/19/12 14:11	JAN	12672-29-6
PCB-1254	Not detected	ug/L	0.1	SW8082A	12/19/12 14:11	JAN	11097-69-1
PCB-1260	Not detected	ug/L	0.05	SW8082A	12/19/12 14:11	JAN	11096-82-5

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	83-32-9
Acenaphthylene	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	208-96-8
Acetophenone	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	98-86-2
Anthracene	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	120-12-7
Atrazine	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	1912-24-9



Analytical Laboratory Report

Lab Sample ID: S55003.04 (continued)

Sample Tag: P2-MW-01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	12/21/12 18:51	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	86-30-6	



Analytical Laboratory Report

Lab Sample ID: S55003.04 (continued)

Sample Tag: P2-MW-01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Naphthalene	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 18:51	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	12/20/12 20:05	JGH	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	12/26/12 19:19	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	12/26/12 19:19	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	12/26/12 19:19	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	12/26/12 19:19	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	12/26/12 19:19	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S55003.04 (continued)

Sample Tag: P2-MW-01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/26/12 19:19	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	12/26/12 19:19	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S55003.05
Sample Tag: MW-12-06
Collected Date/Time: 12/18/2012 17:20
Matrix: Groundwater
COC Reference: 78975

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	1L Amber	None	Yes	5.0	IR
2	40ml Glass	HCL	Yes	5.0	IR
2	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	12/20/12 19:54	EMR		
Extraction, PCB	Completed			3510C	12/19/12 11:09	ADB		
Mercury Digestion	Completed			SW7471A	12/20/12 14:00	JRH		
Mercury Digestion	Completed			SW7471A	12/20/12 14:00	JRH		
Metal Digestion	Completed			3015A	12/26/12 01:00	SLR		
Metal Digestion	Completed			3015A	12/26/12 01:00	SLR		
pH check for VOCs	<2	STD Units		N/A	12/26/12 21:55	WAT		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	SW6020	12/26/12 16:31	SLS	7440-36-0	
Antimony	Not detected	mg/L	0.002	SW6020	12/26/12 15:31	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	SW6020	12/26/12 16:31	SLS	7440-38-2	
Arsenic	0.003	mg/L	0.002	SW6020	12/26/12 15:31	SLS	7440-38-2	
Barium, Dissolved	0.020	mg/L	0.010	SW6020	12/26/12 16:31	SLS	7440-39-3	
Barium	0.031	mg/L	0.010	SW6020	12/26/12 15:31	SLS	7440-39-3	
Boron, Dissolved	0.09	mg/L	0.04	SW6020	12/26/12 16:31	SLS	7440-42-8	
Boron	0.11	mg/L	0.04	SW6020	12/26/12 15:31	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	SW6020	12/26/12 16:31	SLS	7440-43-9	
Cadmium	Not detected	mg/L	0.001	SW6020	12/26/12 15:31	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	SW6020	12/26/12 16:31	SLS	7440-47-3	
Chromium	0.036	mg/L	0.010	SW6020	12/26/12 15:31	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	SW6020	12/26/12 16:31	SLS	7440-48-4	
Cobalt	Not detected	mg/L	0.010	SW6020	12/26/12 15:31	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	SW6020	12/26/12 16:31	SLS	7440-50-8	
Copper	0.028	mg/L	0.002	SW6020	12/26/12 15:31	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	SW6020	12/26/12 16:31	SLS	7439-92-1	
Lead	0.003	mg/L	0.002	SW6020	12/26/12 15:31	SLS	7439-92-1	
Manganese, Dissolved	0.051	mg/L	0.010	SW6020	12/26/12 16:31	SLS	7439-96-5	
Manganese	0.337	mg/L	0.010	SW6020	12/26/12 15:31	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	SW7471A	12/20/12 17:09	JRT	7439-97-6	
Mercury	Not detected	mg/L	0.0001	SW7471A	12/20/12 16:53	JRT	7439-97-6	
Nickel, Dissolved	Not detected	mg/L	0.010	SW6020	12/26/12 16:31	SLS	7440-02-0	
Nickel	0.040	mg/L	0.010	SW6020	12/26/12 15:31	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	SW6020	12/26/12 16:31	SLS	7782-49-2	
Selenium	Not detected	mg/L	0.002	SW6020	12/26/12 15:31	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	SW6020	12/26/12 16:31	SLS	7440-22-4	
Silver	0.0104	mg/L	0.0002	SW6020	12/26/12 15:31	SLS	7440-22-4	
Vanadium, Dissolved	Not detected	mg/L	0.002	SW6020	12/26/12 16:31	SLS	7440-62-2	
Vanadium	0.006	mg/L	0.002	SW6020	12/26/12 15:31	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	SW6020	12/26/12 16:31	SLS	7440-66-6	
Zinc	0.022	mg/L	0.010	SW6020	12/26/12 15:31	SLS	7440-66-6	



Analytical Laboratory Report

Lab Sample ID: S55003.05 (continued)

Sample Tag: MW-12-06

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides								
TCL PCB List Dissolved (Column 1)								
PCB-1016	Not detected	ug/L	0.05	SW8082A	12/19/12 12:42	JAN	12674-11-2	
PCB-1242	Not detected	ug/L	0.1	SW8082A	12/19/12 12:42	JAN	53469-21-9	
PCB-1221	Not detected	ug/L	0.1	SW8082A	12/19/12 12:42	JAN	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	SW8082A	12/19/12 12:42	JAN	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	SW8082A	12/19/12 12:42	JAN	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	SW8082A	12/19/12 12:42	JAN	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	SW8082A	12/19/12 12:42	JAN	11096-82-5	
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	98-86-2	
Anthracene	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	120-12-7	
Atrazine	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	SW8270C	12/21/12 19:24	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	7005-72-3	
Caprolactam	1	ug/L	1	SW8270C	12/21/12 19:24	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	SW8270C	12/21/12 19:24	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	SW8270C	12/21/12 19:24	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	SW8270C	12/21/12 19:24	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	86-73-7	



Analytical Laboratory Report

Lab Sample ID: S55003.05 (continued)

Sample Tag: MW-12-06

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	85-01-8	
Phenol	1	ug/L	1	SW8270C	12/21/12 19:24	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	12/21/12 19:24	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	12/20/12 20:23	JGH	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	12/26/12 19:42	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	12/26/12 19:42	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	12/26/12 19:42	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	110-82-7	



Analytical Laboratory Report

Lab Sample ID: S55003.05 (continued)

Sample Tag: MW-12-06

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	12/26/12 19:42	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	12/26/12 19:42	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/26/12 19:42	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	12/26/12 19:42	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S55003.06
Sample Tag: MW-12-06 MS
Collected Date/Time: 12/18/2012 17:20
Matrix: Groundwater
COC Reference: 78975

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	1L Amber	None	Yes	5.0	IR
2	40ml Glass	HCL	Yes	5.0	IR
2	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	12/20/12 19:54	EMR		
Extraction, PCB	Completed			3510C	12/19/12 11:09	ADB		
Mercury Digestion	Completed			SW7471A	12/20/12 14:00	JRH		
Mercury Digestion	Completed			SW7471A	12/20/12 14:00	JRH		
Metal Digestion	Completed			3015A	12/26/12 01:00	SLR		
Metal Digestion	Completed			3015A	12/26/12 01:00	SLR		
pH check for VOCs	<2	STD Units		N/A	12/26/12 14:29	WAT		

Metals

Antimony, Dissolved	0.105	mg/L	0.005	SW6020	12/26/12 16:35	SLS	7440-36-0	
Antimony	0.105	mg/L	0.002	SW6020	12/26/12 15:35	SLS	7440-36-0	
Arsenic, Dissolved	0.104	mg/L	0.002	SW6020	12/26/12 16:35	SLS	7440-38-2	
Arsenic	0.108	mg/L	0.002	SW6020	12/26/12 15:35	SLS	7440-38-2	
Barium, Dissolved	0.120	mg/L	0.005	SW6020	12/26/12 16:35	SLS	7440-39-3	
Barium	0.136	mg/L	0.010	SW6020	12/26/12 15:35	SLS	7440-39-3	
Boron, Dissolved	0.18	mg/L	0.05	SW6020	12/26/12 16:35	SLS	7440-42-8	
Boron	0.20	mg/L	0.04	SW6020	12/26/12 15:35	SLS	7440-42-8	
Cadmium, Dissolved	0.1032	mg/L	0.0005	SW6020	12/26/12 16:35	SLS	7440-43-9	
Cadmium	0.105	mg/L	0.001	SW6020	12/26/12 15:35	SLS	7440-43-9	
Chromium, Dissolved	0.101	mg/L	0.005	SW6020	12/26/12 16:35	SLS	7440-47-3	
Chromium	0.140	mg/L	0.010	SW6020	12/26/12 15:35	SLS	7440-47-3	
Cobalt, Dissolved	0.100	mg/L	0.005	SW6020	12/26/12 16:35	SLS	7440-48-4	
Cobalt	0.107	mg/L	0.010	SW6020	12/26/12 15:35	SLS	7440-48-4	
Copper, Dissolved	0.100	mg/L	0.004	SW6020	12/26/12 16:35	SLS	7440-50-8	
Copper	0.126	mg/L	0.002	SW6020	12/26/12 15:35	SLS	7440-50-8	
Lead, Dissolved	0.102	mg/L	0.003	SW6020	12/26/12 16:35	SLS	7439-92-1	
Lead	0.103	mg/L	0.002	SW6020	12/26/12 15:35	SLS	7439-92-1	
Manganese, Dissolved	0.153	mg/L	0.005	SW6020	12/26/12 16:35	SLS	7439-96-5	
Manganese	0.453	mg/L	0.010	SW6020	12/26/12 15:35	SLS	7439-96-5	
Mercury, Dissolved	0.0019	mg/L	0.0001	SW7471A	12/20/12 17:11	JRT	7439-97-6	
Mercury	0.0019	mg/L	0.0001	SW7471A	12/20/12 16:55	JRT	7439-97-6	
Nickel, Dissolved	0.102	mg/L	0.005	SW6020	12/26/12 16:35	SLS	7440-02-0	
Nickel	0.141	mg/L	0.010	SW6020	12/26/12 15:35	SLS	7440-02-0	
Selenium, Dissolved	0.100	mg/L	0.005	SW6020	12/26/12 16:35	SLS	7782-49-2	
Selenium	0.100	mg/L	0.002	SW6020	12/26/12 15:35	SLS	7782-49-2	
Silver, Dissolved	0.1008	mg/L	0.0002	SW6020	12/26/12 16:35	SLS	7440-22-4	
Silver	0.1134	mg/L	0.0002	SW6020	12/26/12 15:35	SLS	7440-22-4	
Vanadium, Dissolved	0.103	mg/L	0.004	SW6020	12/26/12 16:35	SLS	7440-62-2	
Vanadium	0.111	mg/L	0.002	SW6020	12/26/12 15:35	SLS	7440-62-2	
Zinc, Dissolved	0.103	mg/L	0.005	SW6020	12/26/12 16:35	SLS	7440-66-6	
Zinc	0.125	mg/L	0.005	SW6020	12/26/12 15:35	SLS	7440-66-6	



Analytical Laboratory Report

Lab Sample ID: S55003.06 (continued)

Sample Tag: MW-12-06 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides								
TCL PCB List Dissolved (Column 1)								
PCB-1016	0.4	ug/L	0.05	SW8082A	12/19/12 13:23	JAN	12674-11-2	
PCB-1242	Not detected	ug/L	0.1	SW8082A	12/19/12 13:23	JAN	53469-21-9	
PCB-1221	Not detected	ug/L	0.1	SW8082A	12/19/12 13:23	JAN	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	SW8082A	12/19/12 13:23	JAN	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	SW8082A	12/19/12 13:23	JAN	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	SW8082A	12/19/12 13:23	JAN	11097-69-1	
PCB-1260	0.5	ug/L	0.05	SW8082A	12/19/12 13:23	JAN	11096-82-5	
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	32	ug/L	1	SW8270C	12/21/12 19:57	PL	83-32-9	1
Acenaphthylene	38	ug/L	1	SW8270C	12/21/12 19:57	PL	208-96-8	1
Acetophenone	27	ug/L	1	SW8270C	12/21/12 19:57	PL	98-86-2	1
Anthracene	33	ug/L	1	SW8270C	12/21/12 19:57	PL	120-12-7	1
Atrazine	31	ug/L	1	SW8270C	12/21/12 19:57	PL	1912-24-9	1
1,1'-Biphenyl	32	ug/L	1	SW8270C	12/21/12 19:57	PL	92-52-4	1
4-Bromophenyl phenyl ether	33	ug/L	1	SW8270C	12/21/12 19:57	PL	101-55-3	1
di-n-Butyl phthalate	33	ug/L	1	SW8270C	12/21/12 19:57	PL	84-74-2	1
Benzaldehyde	26	ug/L	1	SW8270C	12/21/12 19:57	PL	100-52-7	1
Benzo(a)anthracene	33	ug/L	1	SW8270C	12/21/12 19:57	PL	56-55-3	1
Benzo(a)pyrene	34	ug/L	1	SW8270C	12/21/12 19:57	PL	50-32-8	1
Benzo(b)fluoranthene	34	ug/L	1	SW8270C	12/21/12 19:57	PL	205-99-2	1
Benzo(ghi)perylene	28	ug/L	1	SW8270C	12/21/12 19:57	PL	191-24-2	1
Benzo(k)fluoranthene	34	ug/L	1	SW8270C	12/21/12 19:57	PL	207-08-9	1
Butyl benzyl phthalate	35	ug/L	1	SW8270C	12/21/12 19:57	PL	85-68-7	1
2-Chloronaphthalene	30	ug/L	1	SW8270C	12/21/12 19:57	PL	91-58-7	1
2-Chlorophenol	27	ug/L	1	SW8270C	12/21/12 19:57	PL	95-57-8	1
4-Chloro-3-methylphenol	32	ug/L	1	SW8270C	12/21/12 19:57	PL	59-50-7	1
4-Chloroaniline	9	ug/L	2	SW8270C	12/21/12 19:57	PL	106-47-8	1
4-Chlorophenyl phenyl ether	34	ug/L	1	SW8270C	12/21/12 19:57	PL	7005-72-3	1
Caprolactam	14	ug/L	1	SW8270C	12/21/12 19:57	PL	105-60-2	1
Carbazole	31	ug/L	1	SW8270C	12/21/12 19:57	PL	86-74-8	1
bis(2-Chloroethoxy)methane	28	ug/L	1	SW8270C	12/21/12 19:57	PL	111-91-1	1
bis(2-Chloroethyl)ether	25	ug/L	1	SW8270C	12/21/12 19:57	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	27	ug/L	1	SW8270C	12/21/12 19:57	PL	108-60-1	1
Chrysene	34	ug/L	1	SW8270C	12/21/12 19:57	PL	218-01-9	1
2,4-Dichlorophenol	31	ug/L	1	SW8270C	12/21/12 19:57	PL	120-83-2	1
2,4-Dimethylphenol	30	ug/L	1	SW8270C	12/21/12 19:57	PL	105-67-9	1
2,4-Dinitrophenol	23	ug/L	1	SW8270C	12/21/12 19:57	PL	51-28-5	1
2,4-Dinitrotoluene	32	ug/L	1	SW8270C	12/21/12 19:57	PL	121-14-2	1
2,6-Dinitrotoluene	33	ug/L	1	SW8270C	12/21/12 19:57	PL	606-20-2	1
4,6-Dinitro-2-methylphenol	26	ug/L	1	SW8270C	12/21/12 19:57	PL	534-52-1	1
Dibenzo(ah)anthracene	28	ug/L	1	SW8270C	12/21/12 19:57	PL	53-70-3	1
Dibenzofuran	33	ug/L	1	SW8270C	12/21/12 19:57	PL	132-64-9	1
Diethyl phthalate	34	ug/L	2	SW8270C	12/21/12 19:57	PL	84-66-2	1
Dimethyl phthalate	34	ug/L	2	SW8270C	12/21/12 19:57	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	36	ug/L	2	SW8270C	12/21/12 19:57	PL	117-81-7	1
Fluoranthene	33	ug/L	1	SW8270C	12/21/12 19:57	PL	206-44-0	1

1-Sample spiked at 0.052 mg/l



Analytical Laboratory Report

Lab Sample ID: S55003.06 (continued)

Sample Tag: MW-12-06 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Fluorene	34	ug/L	1	SW8270C	12/21/12 19:57	PL	86-73-7	1
Hexachlorobutadiene	25	ug/L	1	SW8270C	12/21/12 19:57	PL	87-68-3	1
Hexachlorocyclopentadiene	31	ug/L	1	SW8270C	12/21/12 19:57	PL	77-47-4	1
Hexachloroethane	23	ug/L	1	SW8270C	12/21/12 19:57	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	29	ug/L	1	SW8270C	12/21/12 19:57	PL	193-39-5	1
Isophorone	37	ug/L	1	SW8270C	12/21/12 19:57	PL	78-59-1	1
2-Methylnaphthalene	31	ug/L	1	SW8270C	12/21/12 19:57	PL	91-57-6	1
2-Methylphenol	27	ug/L	1	SW8270C	12/21/12 19:57	PL	95-48-7	1
3-, 4-Methylphenol	27	ug/L	1	SW8270C	12/21/12 19:57	PL	3/4-Cresol	1
2-Nitroaniline	33	ug/L	1	SW8270C	12/21/12 19:57	PL	88-74-4	1
2-Nitrophenol	29	ug/L	1	SW8270C	12/21/12 19:57	PL	88-75-5	1
3-Nitroaniline	21	ug/L	1	SW8270C	12/21/12 19:57	PL	99-09-2	1
4-Nitroaniline	26	ug/L	1	SW8270C	12/21/12 19:57	PL	100-01-6	1
4-Nitrophenol	25	ug/L	1	SW8270C	12/21/12 19:57	PL	100-02-7	1
N-Nitrosodi-n-propylamine	28	ug/L	1	SW8270C	12/21/12 19:57	PL	621-64-7	1
N-Nitrosodiphenylamine	33	ug/L	1	SW8270C	12/21/12 19:57	PL	86-30-6	1
Naphthalene	27	ug/L	1	SW8270C	12/21/12 19:57	PL	91-20-3	1
Nitrobenzene	27	ug/L	1	SW8270C	12/21/12 19:57	PL	98-95-3	1
di-n-Octyl phthalate	37	ug/L	1	SW8270C	12/21/12 19:57	PL	117-84-0	1
Pentachlorophenol	26	ug/L	1	SW8270C	12/21/12 19:57	PL	87-86-5	1
Phenanthrene	32	ug/L	1	SW8270C	12/21/12 19:57	PL	85-01-8	1
Phenol	20	ug/L	1	SW8270C	12/21/12 19:57	PL	108-95-2	1
Pyrene	35	ug/L	1	SW8270C	12/21/12 19:57	PL	129-00-0	1
2,4,5-Trichlorophenol	33	ug/L	1	SW8270C	12/21/12 19:57	PL	95-95-4	1
2,4,6-Trichlorophenol	33	ug/L	1	SW8270C	12/21/12 19:57	PL	88-06-2	1
Organics - Volatiles								
1,4-Dioxane	46	ug/L	5	SW8260B - SIM	12/26/12 18:51	WAT	123-91-1	2
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	50	ug/L	1	SW8260B	12/26/12 21:11	WAT	76-13-1	2
Acetone	22	ug/L	10	SW8260B	12/26/12 21:11	WAT	67-64-1	2
Carbon disulfide	39	ug/L	1	SW8260B	12/26/12 21:11	WAT	75-15-0	2
Methyl Acetate	45	ug/L	10	SW8260B	12/26/12 21:11	WAT	79-20-9	2
tert-Methyl butyl ether (MTBE)	47	ug/L	1	SW8260B	12/26/12 21:11	WAT	1634-04-4	2
2-Butanone (MEK)	27	ug/L	10	SW8260B	12/26/12 21:11	WAT	78-93-3	2
Dichlorodifluoromethane	22	ug/L	1	SW8260B	12/26/12 21:11	WAT	75-71-8	2
Chloromethane	35	ug/L	1	SW8260B	12/26/12 21:11	WAT	74-87-3	2
Vinyl chloride	36	ug/L	1	SW8260B	12/26/12 21:11	WAT	75-01-4	2
Bromomethane	43	ug/L	1	SW8260B	12/26/12 21:11	WAT	74-83-9	2
Chloroethane	45	ug/L	1	SW8260B	12/26/12 21:11	WAT	75-00-3	2
Trichlorofluoromethane	51	ug/L	1	SW8260B	12/26/12 21:11	WAT	75-69-4	2
1,1-Dichloroethene	50	ug/L	1	SW8260B	12/26/12 21:11	WAT	75-35-4	2
Methylene chloride	48	ug/L	1	SW8260B	12/26/12 21:11	WAT	75-09-2	2
trans-1,2-Dichloroethene	49	ug/L	1	SW8260B	12/26/12 21:11	WAT	156-60-5	2
1,1-Dichloroethane	50	ug/L	1	SW8260B	12/26/12 21:11	WAT	75-34-3	2
cis-1,2-Dichloroethene	49	ug/L	1	SW8260B	12/26/12 21:11	WAT	156-59-2	2

1-Sample spiked at 0.052 mg/l

2-Spiked at 50ug/l



Analytical Laboratory Report

Lab Sample ID: S55003.06 (continued)

Sample Tag: MW-12-06 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Chloroform	51	ug/L	1	SW8260B	12/26/12 21:11	WAT	67-66-3	1
1,1,1-Trichloroethane	51	ug/L	1	SW8260B	12/26/12 21:11	WAT	71-55-6	1
Cyclohexane	40	ug/L	1	SW8260B	12/26/12 21:11	WAT	110-82-7	1
4-Methyl-2-pentanone (MIBK)	48	ug/L	10	SW8260B	12/26/12 21:11	WAT	108-10-1	1
2-Hexanone	33	ug/L	10	SW8260B	12/26/12 21:11	WAT	591-78-6	1
Carbon tetrachloride	56	ug/L	1	SW8260B	12/26/12 21:11	WAT	56-23-5	1
Benzene	50	ug/L	1	SW8260B	12/26/12 21:11	WAT	71-43-2	1
1,2-Dichloroethane	54	ug/L	1	SW8260B	12/26/12 21:11	WAT	107-06-2	1
Trichloroethene	51	ug/L	1	SW8260B	12/26/12 21:11	WAT	79-01-6	1
1,2-Dichloropropane	52	ug/L	1	SW8260B	12/26/12 21:11	WAT	78-87-5	1
Bromodichloromethane	52	ug/L	1	SW8260B	12/26/12 21:11	WAT	75-27-4	1
Methyl cyclohexane	50	ug/L	1	SW8260B	12/26/12 21:11	WAT	108-87-2	1
cis-1,3-Dichloropropene	48	ug/L	1	SW8260B	12/26/12 21:11	WAT	10061-01-5	1
Toluene	50	ug/L	1	SW8260B	12/26/12 21:11	WAT	108-88-3	1
trans-1,3-Dichloropropene	47	ug/L	1	SW8260B	12/26/12 21:11	WAT	10061-02-6	1
1,1,2-Trichloroethane	52	ug/L	1	SW8260B	12/26/12 21:11	WAT	79-00-5	1
Tetrachloroethene	45	ug/L	1	SW8260B	12/26/12 21:11	WAT	127-18-4	1
Dibromochloromethane	49	ug/L	1	SW8260B	12/26/12 21:11	WAT	124-48-1	1
Chlorobenzene	49	ug/L	1	SW8260B	12/26/12 21:11	WAT	108-90-7	1
1,1,2,2-Tetrachloroethane	50	ug/L	1	SW8260B	12/26/12 21:11	WAT	79-34-5	1
Ethylbenzene	50	ug/L	1	SW8260B	12/26/12 21:11	WAT	100-41-4	1
p,m-Xylene	97	ug/L	2	SW8260B	12/26/12 21:11	WAT		1
o-Xylene	50	ug/L	1	SW8260B	12/26/12 21:11	WAT	95-47-6	1
Styrene	45	ug/L	1	SW8260B	12/26/12 21:11	WAT	100-42-5	1
Isopropylbenzene	50	ug/L	1	SW8260B	12/26/12 21:11	WAT	98-82-8	1
Bromoform	51	ug/L	1	SW8260B	12/26/12 21:11	WAT	75-25-2	1
1,3-Dichlorobenzene	49	ug/L	1	SW8260B	12/26/12 21:11	WAT	541-73-1	1
1,4-Dichlorobenzene	48	ug/L	1	SW8260B	12/26/12 21:11	WAT	106-46-7	1
1,2-Dichlorobenzene	49	ug/L	1	SW8260B	12/26/12 21:11	WAT	95-50-1	1
1,2,4-Trichlorobenzene	48	ug/L	1	SW8260B	12/26/12 21:11	WAT	120-82-1	1
1,2-Dibromoethane	50	ug/L	1	SW8260B	12/26/12 21:11	WAT	106-93-4	1
1,2-Dibromo-3-chloropropane	46	ug/L	1	SW8260B	12/26/12 21:11	WAT	96-12-8	1

1-Spiked at 50ug/l



Analytical Laboratory Report

Lab Sample ID: S55003.07
Sample Tag: MW-12-06 MSD
Collected Date/Time: 12/18/2012 17:20
Matrix: Groundwater
COC Reference: 78975

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	1L Amber	None	Yes	5.0	IR
2	40ml Glass	HCL	Yes	5.0	IR
2	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	12/20/12 19:54	EMR		
Extraction, PCB	Completed			3510C	12/19/12 11:09	ADB		
Mercury Digestion	Completed			SW7471A	12/20/12 14:00	JRH		
Mercury Digestion	Completed			SW7471A	12/20/12 14:00	JRH		
Metal Digestion	Completed			3015A	12/26/12 01:00	SLR		
Metal Digestion	Completed			3015A	12/26/12 01:00	SLR		
pH check for VOCs	<2	STD Units		N/A	12/26/12 14:30	WAT		

Metals

Antimony, Dissolved	0.105	mg/L	0.005	SW6020	12/26/12 16:39	SLS	7440-36-0	
Antimony	0.105	mg/L	0.002	SW6020	12/26/12 15:39	SLS	7440-36-0	
Arsenic, Dissolved	0.106	mg/L	0.002	SW6020	12/26/12 16:39	SLS	7440-38-2	
Arsenic	0.111	mg/L	0.002	SW6020	12/26/12 15:39	SLS	7440-38-2	
Barium, Dissolved	0.127	mg/L	0.005	SW6020	12/26/12 16:39	SLS	7440-39-3	
Barium	0.143	mg/L	0.010	SW6020	12/26/12 15:39	SLS	7440-39-3	
Boron, Dissolved	0.19	mg/L	0.05	SW6020	12/26/12 16:39	SLS	7440-42-8	
Boron	0.20	mg/L	0.04	SW6020	12/26/12 15:39	SLS	7440-42-8	
Cadmium, Dissolved	0.1041	mg/L	0.0005	SW6020	12/26/12 16:39	SLS	7440-43-9	
Cadmium	0.104	mg/L	0.001	SW6020	12/26/12 15:39	SLS	7440-43-9	
Chromium, Dissolved	0.101	mg/L	0.005	SW6020	12/26/12 16:39	SLS	7440-47-3	
Chromium	0.140	mg/L	0.010	SW6020	12/26/12 15:39	SLS	7440-47-3	
Cobalt, Dissolved	0.101	mg/L	0.005	SW6020	12/26/12 16:39	SLS	7440-48-4	
Cobalt	0.107	mg/L	0.010	SW6020	12/26/12 15:39	SLS	7440-48-4	
Copper, Dissolved	0.099	mg/L	0.004	SW6020	12/26/12 16:39	SLS	7440-50-8	
Copper	0.130	mg/L	0.002	SW6020	12/26/12 15:39	SLS	7440-50-8	
Lead, Dissolved	0.102	mg/L	0.003	SW6020	12/26/12 16:39	SLS	7439-92-1	
Lead	0.105	mg/L	0.002	SW6020	12/26/12 15:39	SLS	7439-92-1	
Manganese, Dissolved	0.154	mg/L	0.005	SW6020	12/26/12 16:39	SLS	7439-96-5	
Manganese	0.457	mg/L	0.010	SW6020	12/26/12 15:39	SLS	7439-96-5	
Mercury, Dissolved	0.0019	mg/L	0.0001	SW7471A	12/20/12 17:13	JRT	7439-97-6	
Mercury	0.0020	mg/L	0.0001	SW7471A	12/20/12 16:57	JRT	7439-97-6	
Nickel, Dissolved	0.103	mg/L	0.005	SW6020	12/26/12 16:39	SLS	7440-02-0	
Nickel	0.142	mg/L	0.010	SW6020	12/26/12 15:39	SLS	7440-02-0	
Selenium, Dissolved	0.101	mg/L	0.005	SW6020	12/26/12 16:39	SLS	7782-49-2	
Selenium	0.100	mg/L	0.002	SW6020	12/26/12 15:39	SLS	7782-49-2	
Silver, Dissolved	0.1010	mg/L	0.0002	SW6020	12/26/12 16:39	SLS	7440-22-4	
Silver	0.1120	mg/L	0.0002	SW6020	12/26/12 15:39	SLS	7440-22-4	
Vanadium, Dissolved	0.104	mg/L	0.004	SW6020	12/26/12 16:39	SLS	7440-62-2	
Vanadium	0.112	mg/L	0.002	SW6020	12/26/12 15:39	SLS	7440-62-2	
Zinc, Dissolved	0.101	mg/L	0.005	SW6020	12/26/12 16:39	SLS	7440-66-6	
Zinc	0.132	mg/L	0.005	SW6020	12/26/12 15:39	SLS	7440-66-6	



Analytical Laboratory Report

Lab Sample ID: S55003.07 (continued)

Sample Tag: MW-12-06 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides								
TCL PCB List Dissolved (Column 1)								
PCB-1016	0.4	ug/L	0.05	SW8082A	12/19/12 13:39	JAN	12674-11-2	
PCB-1242	Not detected	ug/L	0.1	SW8082A	12/19/12 13:39	JAN	53469-21-9	
PCB-1221	Not detected	ug/L	0.1	SW8082A	12/19/12 13:39	JAN	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	SW8082A	12/19/12 13:39	JAN	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	SW8082A	12/19/12 13:39	JAN	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	SW8082A	12/19/12 13:39	JAN	11097-69-1	
PCB-1260	0.5	ug/L	0.05	SW8082A	12/19/12 13:39	JAN	11096-82-5	
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	36	ug/L	1	SW8270C	12/21/12 20:30	PL	83-32-9	1
Acenaphthylene	42	ug/L	1	SW8270C	12/21/12 20:30	PL	208-96-8	1
Acetophenone	30	ug/L	1	SW8270C	12/21/12 20:30	PL	98-86-2	1
Anthracene	37	ug/L	1	SW8270C	12/21/12 20:30	PL	120-12-7	1
Atrazine	35	ug/L	1	SW8270C	12/21/12 20:30	PL	1912-24-9	1
1,1'-Biphenyl	36	ug/L	1	SW8270C	12/21/12 20:30	PL	92-52-4	1
4-Bromophenyl phenyl ether	36	ug/L	1	SW8270C	12/21/12 20:30	PL	101-55-3	1
di-n-Butyl phthalate	37	ug/L	1	SW8270C	12/21/12 20:30	PL	84-74-2	1
Benzaldehyde	29	ug/L	1	SW8270C	12/21/12 20:30	PL	100-52-7	1
Benzo(a)anthracene	37	ug/L	1	SW8270C	12/21/12 20:30	PL	56-55-3	1
Benzo(a)pyrene	38	ug/L	1	SW8270C	12/21/12 20:30	PL	50-32-8	1
Benzo(b)fluoranthene	38	ug/L	1	SW8270C	12/21/12 20:30	PL	205-99-2	1
Benzo(ghi)perylene	31	ug/L	1	SW8270C	12/21/12 20:30	PL	191-24-2	1
Benzo(k)fluoranthene	38	ug/L	1	SW8270C	12/21/12 20:30	PL	207-08-9	1
Butyl benzyl phthalate	39	ug/L	1	SW8270C	12/21/12 20:30	PL	85-68-7	1
2-Chloronaphthalene	33	ug/L	1	SW8270C	12/21/12 20:30	PL	91-58-7	1
2-Chlorophenol	30	ug/L	1	SW8270C	12/21/12 20:30	PL	95-57-8	1
4-Chloro-3-methylphenol	36	ug/L	1	SW8270C	12/21/12 20:30	PL	59-50-7	1
4-Chloroaniline	10	ug/L	2	SW8270C	12/21/12 20:30	PL	106-47-8	1
4-Chlorophenyl phenyl ether	38	ug/L	1	SW8270C	12/21/12 20:30	PL	7005-72-3	1
Caprolactam	6	ug/L	1	SW8270C	12/21/12 20:30	PL	105-60-2	1
Carbazole	35	ug/L	1	SW8270C	12/21/12 20:30	PL	86-74-8	1
bis(2-Chloroethoxy)methane	31	ug/L	1	SW8270C	12/21/12 20:30	PL	111-91-1	1
bis(2-Chloroethyl)ether	28	ug/L	1	SW8270C	12/21/12 20:30	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	29	ug/L	1	SW8270C	12/21/12 20:30	PL	108-60-1	1
Chrysene	38	ug/L	1	SW8270C	12/21/12 20:30	PL	218-01-9	1
2,4-Dichlorophenol	35	ug/L	1	SW8270C	12/21/12 20:30	PL	120-83-2	1
2,4-Dimethylphenol	34	ug/L	1	SW8270C	12/21/12 20:30	PL	105-67-9	1
2,4-Dinitrophenol	28	ug/L	1	SW8270C	12/21/12 20:30	PL	51-28-5	1
2,4-Dinitrotoluene	36	ug/L	1	SW8270C	12/21/12 20:30	PL	121-14-2	1
2,6-Dinitrotoluene	37	ug/L	1	SW8270C	12/21/12 20:30	PL	606-20-2	1
4,6-Dinitro-2-methylphenol	30	ug/L	1	SW8270C	12/21/12 20:30	PL	534-52-1	1
Dibenzo(ah)anthracene	32	ug/L	1	SW8270C	12/21/12 20:30	PL	53-70-3	1
Dibenzofuran	36	ug/L	1	SW8270C	12/21/12 20:30	PL	132-64-9	1
Diethyl phthalate	38	ug/L	2	SW8270C	12/21/12 20:30	PL	84-66-2	1
Dimethyl phthalate	38	ug/L	2	SW8270C	12/21/12 20:30	PL	131-11-3	1
bis(2-Ethylhexyl)phthalate	41	ug/L	2	SW8270C	12/21/12 20:30	PL	117-81-7	1
Fluoranthene	37	ug/L	1	SW8270C	12/21/12 20:30	PL	206-44-0	1

1-Sample spiked at 0.051 mg/l



Analytical Laboratory Report

Lab Sample ID: S55003.07 (continued)

Sample Tag: MW-12-06 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Fluorene	38	ug/L	1	SW8270C	12/21/12 20:30	PL	86-73-7	1
Hexachlorobutadiene	28	ug/L	1	SW8270C	12/21/12 20:30	PL	87-68-3	1
Hexachlorocyclopentadiene	35	ug/L	1	SW8270C	12/21/12 20:30	PL	77-47-4	1
Hexachloroethane	26	ug/L	1	SW8270C	12/21/12 20:30	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	32	ug/L	1	SW8270C	12/21/12 20:30	PL	193-39-5	1
Isophorone	41	ug/L	1	SW8270C	12/21/12 20:30	PL	78-59-1	1
2-Methylnaphthalene	34	ug/L	1	SW8270C	12/21/12 20:30	PL	91-57-6	1
2-Methylphenol	29	ug/L	1	SW8270C	12/21/12 20:30	PL	95-48-7	1
3-, 4-Methylphenol	30	ug/L	1	SW8270C	12/21/12 20:30	PL	3/4-Cresol	1
2-Nitroaniline	38	ug/L	1	SW8270C	12/21/12 20:30	PL	88-74-4	1
2-Nitrophenol	32	ug/L	1	SW8270C	12/21/12 20:30	PL	88-75-5	1
3-Nitroaniline	24	ug/L	1	SW8270C	12/21/12 20:30	PL	99-09-2	1
4-Nitroaniline	29	ug/L	1	SW8270C	12/21/12 20:30	PL	100-01-6	1
4-Nitrophenol	29	ug/L	1	SW8270C	12/21/12 20:30	PL	100-02-7	1
N-Nitrosodi-n-propylamine	31	ug/L	1	SW8270C	12/21/12 20:30	PL	621-64-7	1
N-Nitrosodiphenylamine	37	ug/L	1	SW8270C	12/21/12 20:30	PL	86-30-6	1
Naphthalene	31	ug/L	1	SW8270C	12/21/12 20:30	PL	91-20-3	1
Nitrobenzene	29	ug/L	1	SW8270C	12/21/12 20:30	PL	98-95-3	1
di-n-Octyl phthalate	41	ug/L	1	SW8270C	12/21/12 20:30	PL	117-84-0	1
Pentachlorophenol	30	ug/L	1	SW8270C	12/21/12 20:30	PL	87-86-5	1
Phenanthrene	36	ug/L	1	SW8270C	12/21/12 20:30	PL	85-01-8	1
Phenol	21	ug/L	1	SW8270C	12/21/12 20:30	PL	108-95-2	1
Pyrene	39	ug/L	1	SW8270C	12/21/12 20:30	PL	129-00-0	1
2,4,5-Trichlorophenol	37	ug/L	1	SW8270C	12/21/12 20:30	PL	95-95-4	1
2,4,6-Trichlorophenol	37	ug/L	1	SW8270C	12/21/12 20:30	PL	88-06-2	1
Organics - Volatiles								
1,4-Dioxane	48	ug/L	5	SW8260B - SIM	12/26/12 19:09	WAT	123-91-1	2
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	51	ug/L	1	SW8260B	12/26/12 21:33	WAT	76-13-1	2
Acetone	22	ug/L	10	SW8260B	12/26/12 21:33	WAT	67-64-1	2
Carbon disulfide	39	ug/L	1	SW8260B	12/26/12 21:33	WAT	75-15-0	2
Methyl Acetate	45	ug/L	10	SW8260B	12/26/12 21:33	WAT	79-20-9	2
tert-Methyl butyl ether (MTBE)	48	ug/L	1	SW8260B	12/26/12 21:33	WAT	1634-04-4	2
2-Butanone (MEK)	27	ug/L	10	SW8260B	12/26/12 21:33	WAT	78-93-3	2
Dichlorodifluoromethane	22	ug/L	1	SW8260B	12/26/12 21:33	WAT	75-71-8	2
Chloromethane	35	ug/L	1	SW8260B	12/26/12 21:33	WAT	74-87-3	2
Vinyl chloride	36	ug/L	1	SW8260B	12/26/12 21:33	WAT	75-01-4	2
Bromomethane	42	ug/L	1	SW8260B	12/26/12 21:33	WAT	74-83-9	2
Chloroethane	45	ug/L	1	SW8260B	12/26/12 21:33	WAT	75-00-3	2
Trichlorofluoromethane	50	ug/L	1	SW8260B	12/26/12 21:33	WAT	75-69-4	2
1,1-Dichloroethene	50	ug/L	1	SW8260B	12/26/12 21:33	WAT	75-35-4	2
Methylene chloride	48	ug/L	1	SW8260B	12/26/12 21:33	WAT	75-09-2	2
trans-1,2-Dichloroethene	49	ug/L	1	SW8260B	12/26/12 21:33	WAT	156-60-5	2
1,1-Dichloroethane	51	ug/L	1	SW8260B	12/26/12 21:33	WAT	75-34-3	2
cis-1,2-Dichloroethene	50	ug/L	1	SW8260B	12/26/12 21:33	WAT	156-59-2	2

1-Sample spiked at 0.051 mg/l

2-Spiked at 50ug/l



Analytical Laboratory Report

Lab Sample ID: S55003.07 (continued)

Sample Tag: MW-12-06 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Chloroform	51	ug/L	1	SW8260B	12/26/12 21:33	WAT	67-66-3	1
1,1,1-Trichloroethane	52	ug/L	1	SW8260B	12/26/12 21:33	WAT	71-55-6	1
Cyclohexane	39	ug/L	1	SW8260B	12/26/12 21:33	WAT	110-82-7	1
4-Methyl-2-pentanone (MIBK)	49	ug/L	10	SW8260B	12/26/12 21:33	WAT	108-10-1	1
2-Hexanone	33	ug/L	10	SW8260B	12/26/12 21:33	WAT	591-78-6	1
Carbon tetrachloride	55	ug/L	1	SW8260B	12/26/12 21:33	WAT	56-23-5	1
Benzene	50	ug/L	1	SW8260B	12/26/12 21:33	WAT	71-43-2	1
1,2-Dichloroethane	53	ug/L	1	SW8260B	12/26/12 21:33	WAT	107-06-2	1
Trichloroethene	51	ug/L	1	SW8260B	12/26/12 21:33	WAT	79-01-6	1
1,2-Dichloropropane	52	ug/L	1	SW8260B	12/26/12 21:33	WAT	78-87-5	1
Bromodichloromethane	52	ug/L	1	SW8260B	12/26/12 21:33	WAT	75-27-4	1
Methyl cyclohexane	50	ug/L	1	SW8260B	12/26/12 21:33	WAT	108-87-2	1
cis-1,3-Dichloropropene	49	ug/L	1	SW8260B	12/26/12 21:33	WAT	10061-01-5	1
Toluene	51	ug/L	1	SW8260B	12/26/12 21:33	WAT	108-88-3	1
trans-1,3-Dichloropropene	48	ug/L	1	SW8260B	12/26/12 21:33	WAT	10061-02-6	1
1,1,2-Trichloroethane	53	ug/L	1	SW8260B	12/26/12 21:33	WAT	79-00-5	1
Tetrachloroethene	46	ug/L	1	SW8260B	12/26/12 21:33	WAT	127-18-4	1
Dibromochloromethane	49	ug/L	1	SW8260B	12/26/12 21:33	WAT	124-48-1	1
Chlorobenzene	49	ug/L	1	SW8260B	12/26/12 21:33	WAT	108-90-7	1
1,1,2,2-Tetrachloroethane	49	ug/L	1	SW8260B	12/26/12 21:33	WAT	79-34-5	1
Ethylbenzene	50	ug/L	1	SW8260B	12/26/12 21:33	WAT	100-41-4	1
p,m-Xylene	97	ug/L	2	SW8260B	12/26/12 21:33	WAT		1
o-Xylene	50	ug/L	1	SW8260B	12/26/12 21:33	WAT	95-47-6	1
Styrene	45	ug/L	1	SW8260B	12/26/12 21:33	WAT	100-42-5	1
Isopropylbenzene	50	ug/L	1	SW8260B	12/26/12 21:33	WAT	98-82-8	1
Bromoform	49	ug/L	1	SW8260B	12/26/12 21:33	WAT	75-25-2	1
1,3-Dichlorobenzene	49	ug/L	1	SW8260B	12/26/12 21:33	WAT	541-73-1	1
1,4-Dichlorobenzene	49	ug/L	1	SW8260B	12/26/12 21:33	WAT	106-46-7	1
1,2-Dichlorobenzene	50	ug/L	1	SW8260B	12/26/12 21:33	WAT	95-50-1	1
1,2,4-Trichlorobenzene	49	ug/L	1	SW8260B	12/26/12 21:33	WAT	120-82-1	1
1,2-Dibromoethane	50	ug/L	1	SW8260B	12/26/12 21:33	WAT	106-93-4	1
1,2-Dibromo-3-chloropropane	47	ug/L	1	SW8260B	12/26/12 21:33	WAT	96-12-8	1

1-Spiked at 50ug/l



Analytical Laboratory Report

Lab Sample ID: S55003.08
Sample Tag: Trip Blank
Collected Date/Time: 12/18/2012 09:00
Matrix: Groundwater
COC Reference: 78975

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	12/26/12 21:56	WAT		
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	12/26/12 14:39	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	12/26/12 20:04	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	12/26/12 20:04	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	12/26/12 20:04	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	156-59-2	
Chloroform	6	ug/L	1	SW8260B	12/26/12 20:04	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	12/26/12 20:04	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	12/26/12 20:04	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	78-87-5	
Bromodichloromethane	3	ug/L	1	SW8260B	12/26/12 20:04	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S55003.08 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/26/12 20:04	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	12/26/12 20:04	WAT	96-12-8	



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C.O.C. PAGE # 1 OF 1

78975

Rev 5.18.12



Analytical Laboratory Report

Report ID: S55033.01(01)
Generated on 01/02/2013

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
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Contacts for report questions:

Andy Ball (andyball@meritlabs.com)
Tabitha Faust (tfaust@meritlabs.com)

Report Summary

Lab Sample ID(s): S55033.01-S55033.08
Project: Lansing Plant 2 Project# B0064479.2012
Collected Date: 12/19/2012
Submitted Date/Time: 12/20/2012 10:00
Sampled by: Alex Villharer
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (8 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S55033.01	Trip Blank	Groundwater	12/19/2012 09:00
S55033.02	MW-12-05	Groundwater	12/19/2012 10:20
S55033.03	P2-MW-02	Groundwater	12/19/2012 11:41
S55033.04	MW-12-18	Groundwater	12/19/2012 13:10
S55033.05	MW-12-09	Groundwater	12/19/2012 15:15
S55033.06	MW-12-07	Groundwater	12/19/2012 16:20
S55033.07	Equipment Blank-1	Groundwater	12/19/2012 16:30
S55033.08	P2-MW-03	Groundwater	12/19/2012 17:45



Analytical Laboratory Report

Lab Sample ID: S55033.01
Sample Tag: Trip Blank
Collected Date/Time: 12/19/2012 09:00
Matrix: Groundwater
COC Reference: 78973

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	12/26/12 13:15	WAT		
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	12/26/12 16:27	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	12/28/12 03:50	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	12/28/12 03:50	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	12/28/12 03:50	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	12/28/12 03:50	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	12/28/12 03:50	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S55033.01 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/28/12 03:50	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	12/28/12 03:50	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S55033.02
Sample Tag: MW-12-05
Collected Date/Time: 12/19/2012 10:20
Matrix: Groundwater
COC Reference: 78973

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.5	IR
2	125ml Plastic	HNO3	Yes	4.5	IR
3	1L Amber	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	12/20/12 23:59	EMR		
Extraction, PCB	Completed			3510C	12/21/12 11:53	ADB		
Mercury Digestion	Completed			SW7471A	12/27/12 12:10	JRH		
Mercury Digestion	Completed			SW7471A	12/27/12 12:10	JRH		
Metal Digestion	Completed			3015A	12/26/12 01:00	SLR		
Metal Digestion	Completed			3015A	12/26/12 01:00	SLR		
pH check for VOCs	<2	STD Units		N/A	12/26/12 13:15	WAT		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	SW6020	12/26/12 18:32	SLS	7440-36-0
Antimony	Not detected	mg/L	0.002	SW6020	12/26/12 18:28	SLS	7440-36-0
Arsenic, Dissolved	Not detected	mg/L	0.002	SW6020	12/26/12 18:32	SLS	7440-38-2
Arsenic	Not detected	mg/L	0.002	SW6020	12/26/12 18:28	SLS	7440-38-2
Barium, Dissolved	0.030	mg/L	0.010	SW6020	12/26/12 18:32	SLS	7440-39-3
Barium	0.037	mg/L	0.010	SW6020	12/26/12 18:28	SLS	7440-39-3
Boron, Dissolved	0.06	mg/L	0.04	SW6020	12/26/12 18:32	SLS	7440-42-8
Boron	0.06	mg/L	0.04	SW6020	12/26/12 18:28	SLS	7440-42-8
Cadmium, Dissolved	Not detected	mg/L	0.001	SW6020	12/26/12 18:32	SLS	7440-43-9
Cadmium	Not detected	mg/L	0.001	SW6020	12/26/12 18:28	SLS	7440-43-9
Chromium, Dissolved	Not detected	mg/L	0.010	SW6020	12/26/12 18:32	SLS	7440-47-3
Chromium	0.033	mg/L	0.010	SW6020	12/26/12 18:28	SLS	7440-47-3
Cobalt, Dissolved	Not detected	mg/L	0.010	SW6020	12/26/12 18:32	SLS	7440-48-4
Cobalt	Not detected	mg/L	0.010	SW6020	12/26/12 18:28	SLS	7440-48-4
Copper, Dissolved	Not detected	mg/L	0.002	SW6020	12/26/12 18:32	SLS	7440-50-8
Copper	0.005	mg/L	0.002	SW6020	12/26/12 18:28	SLS	7440-50-8
Lead, Dissolved	Not detected	mg/L	0.002	SW6020	12/26/12 18:32	SLS	7439-92-1
Lead	Not detected	mg/L	0.002	SW6020	12/26/12 18:28	SLS	7439-92-1
Manganese, Dissolved	0.093	mg/L	0.010	SW6020	12/26/12 18:32	SLS	7439-96-5
Manganese	0.184	mg/L	0.010	SW6020	12/26/12 18:28	SLS	7439-96-5
Mercury, Dissolved	Not detected	mg/L	0.0001	SW7471A	12/27/12 15:06	JRT	7439-97-6
Mercury	Not detected	mg/L	0.0001	SW7471A	12/27/12 15:03	JRT	7439-97-6
Nickel, Dissolved	0.016	mg/L	0.010	SW6020	12/26/12 18:32	SLS	7440-02-0
Nickel	0.038	mg/L	0.010	SW6020	12/26/12 18:28	SLS	7440-02-0
Selenium, Dissolved	Not detected	mg/L	0.002	SW6020	12/26/12 18:32	SLS	7782-49-2
Selenium	Not detected	mg/L	0.002	SW6020	12/26/12 18:28	SLS	7782-49-2
Silver, Dissolved	Not detected	mg/L	0.0002	SW6020	12/26/12 18:32	SLS	7440-22-4
Silver	Not detected	mg/L	0.0002	SW6020	12/26/12 18:28	SLS	7440-22-4
Vanadium, Dissolved	Not detected	mg/L	0.002	SW6020	12/26/12 18:32	SLS	7440-62-2
Vanadium	0.002	mg/L	0.002	SW6020	12/26/12 18:28	SLS	7440-62-2
Zinc, Dissolved	Not detected	mg/L	0.010	SW6020	12/26/12 18:32	SLS	7440-66-6
Zinc	0.019	mg/L	0.010	SW6020	12/26/12 18:28	SLS	7440-66-6



Analytical Laboratory Report

Lab Sample ID: S55033.02 (continued)

Sample Tag: MW-12-05

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides								
TCL PCB List Dissolved (Column 1)								
PCB-1016	Not detected	ug/L	0.05	SW8082A	12/21/12 15:02	JAN	12674-11-2	
PCB-1242	Not detected	ug/L	0.1	SW8082A	12/21/12 15:02	JAN	53469-21-9	
PCB-1221	Not detected	ug/L	0.1	SW8082A	12/21/12 15:02	JAN	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	SW8082A	12/21/12 15:02	JAN	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	SW8082A	12/21/12 15:02	JAN	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	SW8082A	12/21/12 15:02	JAN	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	SW8082A	12/21/12 15:02	JAN	11096-82-5	
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	98-86-2	
Anthracene	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	120-12-7	
Atrazine	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	SW8270C	12/27/12 19:07	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	7005-72-3	
Caprolactam	2	ug/L	1	SW8270C	12/27/12 19:07	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	SW8270C	12/27/12 19:07	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	SW8270C	12/27/12 19:07	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	SW8270C	12/27/12 19:07	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	86-73-7	



Analytical Laboratory Report

Lab Sample ID: S55033.02 (continued)

Sample Tag: MW-12-05

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	85-01-8	
Phenol	2	ug/L	1	SW8270C	12/27/12 19:07	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 19:07	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	12/26/12 16:45	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	12/28/12 04:12	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	12/28/12 04:12	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	12/28/12 04:12	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	110-82-7	



Analytical Laboratory Report

Lab Sample ID: S55033.02 (continued)

Sample Tag: MW-12-05

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	12/28/12 04:12	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	12/28/12 04:12	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/28/12 04:12	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	12/28/12 04:12	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S55033.03
Sample Tag: P2-MW-02
Collected Date/Time: 12/19/2012 11:41
Matrix: Groundwater
COC Reference: 78973

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.5	IR
1	125ml Plastic	HNO3	Yes	4.5	IR
3	1L Amber	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	12/20/12 23:53	EMR		
Extraction, PCB	Completed			3510C	12/21/12 11:53	ADB		
Mercury Digestion	Completed			SW7471A	12/27/12 12:10	JRH		
Metal Digestion	Completed			3015A	12/26/12 01:00	SLR		
pH check for VOCs	<2	STD Units		N/A	12/26/12 13:15	WAT		

Metals

Antimony	Not detected	mg/L	0.002	SW6020	12/26/12 18:36	SLS	7440-36-0
Arsenic	0.002	mg/L	0.002	SW6020	12/26/12 18:36	SLS	7440-38-2
Barium	0.121	mg/L	0.010	SW6020	12/26/12 18:36	SLS	7440-39-3
Boron	0.04	mg/L	0.04	SW6020	12/26/12 18:36	SLS	7440-42-8
Cadmium	Not detected	mg/L	0.001	SW6020	12/26/12 18:36	SLS	7440-43-9
Chromium	0.026	mg/L	0.010	SW6020	12/26/12 18:36	SLS	7440-47-3
Cobalt	Not detected	mg/L	0.010	SW6020	12/26/12 18:36	SLS	7440-48-4
Copper	0.005	mg/L	0.002	SW6020	12/26/12 18:36	SLS	7440-50-8
Lead	Not detected	mg/L	0.002	SW6020	12/26/12 18:36	SLS	7439-92-1
Manganese	0.273	mg/L	0.010	SW6020	12/26/12 18:36	SLS	7439-96-5
Mercury	Not detected	mg/L	0.0001	SW7471A	12/27/12 14:49	JRT	7439-97-6
Nickel	0.026	mg/L	0.010	SW6020	12/26/12 18:36	SLS	7440-02-0
Selenium	Not detected	mg/L	0.002	SW6020	12/26/12 18:36	SLS	7782-49-2
Silver	Not detected	mg/L	0.0002	SW6020	12/26/12 18:36	SLS	7440-22-4
Vanadium	Not detected	mg/L	0.002	SW6020	12/26/12 18:36	SLS	7440-62-2
Zinc	Not detected	mg/L	0.010	SW6020	12/26/12 18:36	SLS	7440-66-6

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/L	0.05	SW8082A	12/21/12 15:13	JAN	12674-11-2
PCB-1242	Not detected	ug/L	0.1	SW8082A	12/21/12 15:13	JAN	53469-21-9
PCB-1221	Not detected	ug/L	0.1	SW8082A	12/21/12 15:13	JAN	11104-28-2
PCB-1232	Not detected	ug/L	0.1	SW8082A	12/21/12 15:13	JAN	11141-16-5
PCB-1248	Not detected	ug/L	0.1	SW8082A	12/21/12 15:13	JAN	12672-29-6
PCB-1254	Not detected	ug/L	0.1	SW8082A	12/21/12 15:13	JAN	11097-69-1
PCB-1260	Not detected	ug/L	0.05	SW8082A	12/21/12 15:13	JAN	11096-82-5

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	83-32-9
Acenaphthylene	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	208-96-8
Acetophenone	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	98-86-2
Anthracene	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	120-12-7
Atrazine	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	1912-24-9



Analytical Laboratory Report

Lab Sample ID: S55033.03 (continued)

Sample Tag: P2-MW-02

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	12/27/12 19:40	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	86-30-6	



Analytical Laboratory Report

Lab Sample ID: S55033.03 (continued)

Sample Tag: P2-MW-02

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Naphthalene	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 19:40	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	12/26/12 17:03	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	12/28/12 04:35	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	12/28/12 04:35	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	12/28/12 04:35	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	12/28/12 04:35	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	12/28/12 04:35	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S55033.03 (continued)

Sample Tag: P2-MW-02

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/28/12 04:35	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	12/28/12 04:35	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S55033.04
Sample Tag: MW-12-18
Collected Date/Time: 12/19/2012 13:10
Matrix: Groundwater
COC Reference: 78973

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.5	IR
2	125ml Plastic	HNO3	Yes	4.5	IR
3	1L Amber	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	12/20/12 23:53	EMR		
Extraction, PCB	Completed			3510C	12/21/12 11:53	ADB		
Mercury Digestion	Completed			SW7471A	12/27/12 12:10	JRH		
Mercury Digestion	Completed			SW7471A	12/27/12 12:10	JRH		
Metal Digestion	Completed			3015A	12/26/12 01:00	SLR		
Metal Digestion	Completed			3015A	12/26/12 01:00	SLR		
pH check for VOCs	<2	STD Units		N/A	12/26/12 13:15	WAT		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	SW6020	12/26/12 18:44	SLS	7440-36-0	
Antimony	Not detected	mg/L	0.002	SW6020	12/26/12 18:40	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	SW6020	12/26/12 18:44	SLS	7440-38-2	
Arsenic	Not detected	mg/L	0.002	SW6020	12/26/12 18:40	SLS	7440-38-2	
Barium, Dissolved	0.252	mg/L	0.010	SW6020	12/26/12 18:44	SLS	7440-39-3	
Barium	0.255	mg/L	0.010	SW6020	12/26/12 18:40	SLS	7440-39-3	
Boron, Dissolved	Not detected	mg/L	0.04	SW6020	12/26/12 18:44	SLS	7440-42-8	
Boron	0.04	mg/L	0.04	SW6020	12/26/12 18:40	SLS	7440-42-8	
Cadmium, Dissolved	Not detected	mg/L	0.001	SW6020	12/26/12 18:44	SLS	7440-43-9	
Cadmium	Not detected	mg/L	0.001	SW6020	12/26/12 18:40	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.010	SW6020	12/26/12 18:44	SLS	7440-47-3	
Chromium	Not detected	mg/L	0.010	SW6020	12/26/12 18:40	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.010	SW6020	12/26/12 18:44	SLS	7440-48-4	
Cobalt	Not detected	mg/L	0.010	SW6020	12/26/12 18:40	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.002	SW6020	12/26/12 18:44	SLS	7440-50-8	
Copper	0.008	mg/L	0.002	SW6020	12/26/12 18:40	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.002	SW6020	12/26/12 18:44	SLS	7439-92-1	
Lead	Not detected	mg/L	0.002	SW6020	12/26/12 18:40	SLS	7439-92-1	
Manganese, Dissolved	0.228	mg/L	0.010	SW6020	12/26/12 18:44	SLS	7439-96-5	
Manganese	0.247	mg/L	0.010	SW6020	12/26/12 18:40	SLS	7439-96-5	
Mercury, Dissolved	Not detected	mg/L	0.0001	SW7471A	12/27/12 14:53	JRT	7439-97-6	
Mercury	Not detected	mg/L	0.0001	SW7471A	12/27/12 14:51	JRT	7439-97-6	
Nickel, Dissolved	0.102	mg/L	0.010	SW6020	12/26/12 18:44	SLS	7440-02-0	
Nickel	0.104	mg/L	0.010	SW6020	12/26/12 18:40	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.002	SW6020	12/26/12 18:44	SLS	7782-49-2	
Selenium	Not detected	mg/L	0.002	SW6020	12/26/12 18:40	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	SW6020	12/26/12 18:44	SLS	7440-22-4	
Silver	Not detected	mg/L	0.0002	SW6020	12/26/12 18:40	SLS	7440-22-4	
Vanadium, Dissolved	Not detected	mg/L	0.002	SW6020	12/26/12 18:44	SLS	7440-62-2	
Vanadium	Not detected	mg/L	0.002	SW6020	12/26/12 18:40	SLS	7440-62-2	
Zinc, Dissolved	Not detected	mg/L	0.010	SW6020	12/26/12 18:44	SLS	7440-66-6	
Zinc	0.015	mg/L	0.010	SW6020	12/26/12 18:40	SLS	7440-66-6	



Analytical Laboratory Report

Lab Sample ID: S55033.04 (continued)

Sample Tag: MW-12-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides								
TCL PCB List (Column 1)								
PCB-1016	Not detected	ug/L	0.05	SW8082A	12/21/12 15:23	JAN	12674-11-2	
PCB-1242	Not detected	ug/L	0.1	SW8082A	12/21/12 15:23	JAN	53469-21-9	
PCB-1221	Not detected	ug/L	0.1	SW8082A	12/21/12 15:23	JAN	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	SW8082A	12/21/12 15:23	JAN	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	SW8082A	12/21/12 15:23	JAN	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	SW8082A	12/21/12 15:23	JAN	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	SW8082A	12/21/12 15:23	JAN	11096-82-5	
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics								
Acenaphthene	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	98-86-2	
Anthracene	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	120-12-7	
Atrazine	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	7005-72-3	
Caprolactam	1	ug/L	1	SW8270C	12/27/12 20:13	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	12/27/12 20:13	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	1	ug/L	1	SW8270C	12/27/12 20:13	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	86-73-7	



Analytical Laboratory Report

Lab Sample ID: S55033.04 (continued)

Sample Tag: MW-12-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	85-01-8	
Phenol	2	ug/L	1	SW8270C	12/27/12 20:13	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 20:13	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	12/26/12 17:21	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	12/28/12 04:56	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	12/28/12 04:56	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	12/28/12 04:56	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	156-60-5	
1,1-Dichloroethane	2	ug/L	1	SW8260B	12/28/12 04:56	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	110-82-7	



Analytical Laboratory Report

Lab Sample ID: S55033.04 (continued)

Sample Tag: MW-12-18

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	12/28/12 04:56	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	12/28/12 04:56	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/28/12 04:56	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	12/28/12 04:56	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S55033.05
Sample Tag: MW-12-09
Collected Date/Time: 12/19/2012 15:15
Matrix: Groundwater
COC Reference: 78973

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.5	IR
1	125ml Plastic	HNO3	Yes	4.5	IR
3	1L Amber	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	12/20/12 23:53	EMR		
Extraction, PCB	Completed			3510C	12/21/12 11:53	ADB		
Mercury Digestion	Completed			SW7471A	12/27/12 12:10	JRH		
Metal Digestion	Completed			3015A	12/27/12 01:00	SLR		
pH check for VOCs	<2	STD Units		N/A	12/26/12 13:15	WAT		

Metals

Antimony	Not detected	mg/L	0.002	SW6020	12/27/12 19:09	SLS	7440-36-0
Arsenic	0.003	mg/L	0.002	SW6020	12/27/12 19:09	SLS	7440-38-2
Barium	0.063	mg/L	0.010	SW6020	12/27/12 19:09	SLS	7440-39-3
Boron	0.16	mg/L	0.04	SW6020	12/27/12 19:09	SLS	7440-42-8
Cadmium	Not detected	mg/L	0.001	SW6020	12/27/12 19:09	SLS	7440-43-9
Chromium	Not detected	mg/L	0.010	SW6020	12/27/12 19:09	SLS	7440-47-3
Cobalt	Not detected	mg/L	0.010	SW6020	12/27/12 19:09	SLS	7440-48-4
Copper	0.003	mg/L	0.002	SW6020	12/27/12 19:09	SLS	7440-50-8
Lead	Not detected	mg/L	0.002	SW6020	12/27/12 19:09	SLS	7439-92-1
Manganese	0.698	mg/L	0.010	SW6020	12/27/12 19:09	SLS	7439-96-5
Mercury	Not detected	mg/L	0.0001	SW7471A	12/27/12 14:55	JRT	7439-97-6
Nickel	0.010	mg/L	0.010	SW6020	12/27/12 19:09	SLS	7440-02-0
Selenium	Not detected	mg/L	0.002	SW6020	12/27/12 19:09	SLS	7782-49-2
Silver	Not detected	mg/L	0.0002	SW6020	12/27/12 19:09	SLS	7440-22-4
Vanadium	Not detected	mg/L	0.002	SW6020	12/27/12 19:09	SLS	7440-62-2
Zinc	Not detected	mg/L	0.010	SW6020	12/27/12 19:09	SLS	7440-66-6

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/L	0.05	SW8082A	12/21/12 15:34	JAN	12674-11-2
PCB-1242	Not detected	ug/L	0.1	SW8082A	12/21/12 15:34	JAN	53469-21-9
PCB-1221	Not detected	ug/L	0.1	SW8082A	12/21/12 15:34	JAN	11104-28-2
PCB-1232	Not detected	ug/L	0.1	SW8082A	12/21/12 15:34	JAN	11141-16-5
PCB-1248	Not detected	ug/L	0.1	SW8082A	12/21/12 15:34	JAN	12672-29-6
PCB-1254	Not detected	ug/L	0.1	SW8082A	12/21/12 15:34	JAN	11097-69-1
PCB-1260	Not detected	ug/L	0.05	SW8082A	12/21/12 15:34	JAN	11096-82-5

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	83-32-9
Acenaphthylene	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	208-96-8
Acetophenone	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	98-86-2
Anthracene	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	120-12-7
Atrazine	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	1912-24-9



Analytical Laboratory Report

Lab Sample ID: S55033.05 (continued)

Sample Tag: MW-12-09

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	12/27/12 20:46	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	86-30-6	



Analytical Laboratory Report

Lab Sample ID: S55033.05 (continued)

Sample Tag: MW-12-09

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Naphthalene	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 20:46	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	12/26/12 17:39	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	12/28/12 05:19	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	12/28/12 05:19	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	12/28/12 05:19	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	12/28/12 05:19	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	12/28/12 05:19	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S55033.05 (continued)

Sample Tag: MW-12-09

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/28/12 05:19	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	12/28/12 05:19	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S55033.06
Sample Tag: MW-12-07
Collected Date/Time: 12/19/2012 16:20
Matrix: Groundwater
COC Reference: 78973

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.5	IR
1	125ml Plastic	HNO3	Yes	4.5	IR
3	1L Amber	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	12/20/12 23:53	EMR		
Extraction, PCB	Completed			3510C	12/21/12 11:53	ADB		
Mercury Digestion	Completed			SW7471A	12/27/12 12:10	JRH		
Metal Digestion	Completed			3015A	12/27/12 01:00	SLR		
pH check for VOCs	<2	STD Units		N/A	12/26/12 13:15	WAT		

Metals

Antimony	Not detected	mg/L	0.002	SW6020	12/27/12 19:14	SLS	7440-36-0
Arsenic	Not detected	mg/L	0.002	SW6020	12/27/12 19:14	SLS	7440-38-2
Barium	0.052	mg/L	0.010	SW6020	12/27/12 19:14	SLS	7440-39-3
Boron	0.05	mg/L	0.04	SW6020	12/27/12 19:14	SLS	7440-42-8
Cadmium	Not detected	mg/L	0.001	SW6020	12/27/12 19:14	SLS	7440-43-9
Chromium	Not detected	mg/L	0.010	SW6020	12/27/12 19:14	SLS	7440-47-3
Cobalt	Not detected	mg/L	0.010	SW6020	12/27/12 19:14	SLS	7440-48-4
Copper	0.007	mg/L	0.002	SW6020	12/27/12 19:14	SLS	7440-50-8
Lead	Not detected	mg/L	0.002	SW6020	12/27/12 19:14	SLS	7439-92-1
Manganese	0.067	mg/L	0.010	SW6020	12/27/12 19:14	SLS	7439-96-5
Mercury	Not detected	mg/L	0.0001	SW7471A	12/27/12 14:57	JRT	7439-97-6
Nickel	Not detected	mg/L	0.010	SW6020	12/27/12 19:14	SLS	7440-02-0
Selenium	Not detected	mg/L	0.002	SW6020	12/27/12 19:14	SLS	7782-49-2
Silver	Not detected	mg/L	0.0002	SW6020	12/27/12 19:14	SLS	7440-22-4
Vanadium	Not detected	mg/L	0.002	SW6020	12/27/12 19:14	SLS	7440-62-2
Zinc	Not detected	mg/L	0.010	SW6020	12/27/12 19:14	SLS	7440-66-6

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/L	0.05	SW8082A	12/21/12 15:44	JAN	12674-11-2
PCB-1242	Not detected	ug/L	0.1	SW8082A	12/21/12 15:44	JAN	53469-21-9
PCB-1221	Not detected	ug/L	0.1	SW8082A	12/21/12 15:44	JAN	11104-28-2
PCB-1232	Not detected	ug/L	0.1	SW8082A	12/21/12 15:44	JAN	11141-16-5
PCB-1248	Not detected	ug/L	0.1	SW8082A	12/21/12 15:44	JAN	12672-29-6
PCB-1254	Not detected	ug/L	0.1	SW8082A	12/21/12 15:44	JAN	11097-69-1
PCB-1260	Not detected	ug/L	0.05	SW8082A	12/21/12 15:44	JAN	11096-82-5

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	83-32-9
Acenaphthylene	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	208-96-8
Acetophenone	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	98-86-2
Anthracene	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	120-12-7
Atrazine	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	1912-24-9



Analytical Laboratory Report

Lab Sample ID: S55033.06 (continued)

Sample Tag: MW-12-07

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	12/27/12 21:19	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	86-30-6	



Analytical Laboratory Report

Lab Sample ID: S55033.06 (continued)

Sample Tag: MW-12-07

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Naphthalene	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 21:19	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	12/26/12 17:57	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	12/28/12 05:41	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	12/28/12 05:41	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	12/28/12 05:41	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	12/28/12 05:41	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	12/28/12 05:41	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S55033.06 (continued)

Sample Tag: MW-12-07

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/28/12 05:41	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	12/28/12 05:41	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S55033.07
Sample Tag: Equipment Blank-1
Collected Date/Time: 12/19/2012 16:30
Matrix: Groundwater
COC Reference: 78973

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	12/26/12 13:15	WAT		
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	12/26/12 18:15	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	12/28/12 06:03	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	12/28/12 06:03	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	12/28/12 06:03	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	12/28/12 06:03	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	12/28/12 06:03	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S55033.07 (continued)

Sample Tag: Equipment Blank-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/28/12 06:03	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	12/28/12 06:03	WAT	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S55033.08
Sample Tag: P2-MW-03
Collected Date/Time: 12/19/2012 17:45
Matrix: Groundwater
COC Reference: 78973

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.5	IR
2	125ml Plastic	HNO3	Yes	4.5	IR
5	1L Amber	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	12/20/12 23:53	EMR		
BNA Extraction	Completed			3510C	12/26/12 20:48	EMR		
Extraction, PCB	Completed			3510C	12/21/12 11:53	ADB		
Mercury Digestion	Completed			SW7471A	12/27/12 12:10	JRH		
Mercury Digestion	Completed			SW7471A	12/27/12 12:10	JRH		
Metal Digestion	Completed			3015A	12/27/12 01:00	SLR		
Metal Digestion	Completed			3015A	12/27/12 01:00	SLR		
pH check for VOCs	<2	STD Units		N/A	12/26/12 13:34	WAT		

Metals

Antimony, Dissolved	Not detected	mg/L	0.002	SW6020	12/27/12 19:22	SLS	7440-36-0
Antimony	Not detected	mg/L	0.002	SW6020	12/27/12 19:18	SLS	7440-36-0
Arsenic, Dissolved	0.004	mg/L	0.002	SW6020	12/27/12 19:22	SLS	7440-38-2
Arsenic	0.009	mg/L	0.002	SW6020	12/27/12 19:18	SLS	7440-38-2
Barium, Dissolved	0.363	mg/L	0.010	SW6020	12/27/12 19:22	SLS	7440-39-3
Barium	0.407	mg/L	0.010	SW6020	12/27/12 19:18	SLS	7440-39-3
Boron, Dissolved	0.09	mg/L	0.04	SW6020	12/27/12 19:22	SLS	7440-42-8
Boron	0.10	mg/L	0.04	SW6020	12/27/12 19:18	SLS	7440-42-8
Cadmium, Dissolved	Not detected	mg/L	0.001	SW6020	12/27/12 19:22	SLS	7440-43-9
Cadmium	Not detected	mg/L	0.001	SW6020	12/27/12 19:18	SLS	7440-43-9
Chromium, Dissolved	Not detected	mg/L	0.010	SW6020	12/27/12 19:22	SLS	7440-47-3
Chromium	Not detected	mg/L	0.010	SW6020	12/27/12 19:18	SLS	7440-47-3
Cobalt, Dissolved	Not detected	mg/L	0.010	SW6020	12/27/12 19:22	SLS	7440-48-4
Cobalt	Not detected	mg/L	0.010	SW6020	12/27/12 19:18	SLS	7440-48-4
Copper, Dissolved	Not detected	mg/L	0.002	SW6020	12/27/12 19:22	SLS	7440-50-8
Copper	0.009	mg/L	0.002	SW6020	12/27/12 19:18	SLS	7440-50-8
Lead, Dissolved	Not detected	mg/L	0.002	SW6020	12/27/12 19:22	SLS	7439-92-1
Lead	0.005	mg/L	0.002	SW6020	12/27/12 19:18	SLS	7439-92-1
Manganese, Dissolved	0.113	mg/L	0.010	SW6020	12/27/12 19:22	SLS	7439-96-5
Manganese	0.269	mg/L	0.010	SW6020	12/27/12 19:18	SLS	7439-96-5
Mercury, Dissolved	Not detected	mg/L	0.0001	SW7471A	12/27/12 15:01	JRT	7439-97-6
Mercury	Not detected	mg/L	0.0001	SW7471A	12/27/12 14:59	JRT	7439-97-6
Nickel, Dissolved	Not detected	mg/L	0.010	SW6020	12/27/12 19:22	SLS	7440-02-0
Nickel	Not detected	mg/L	0.010	SW6020	12/27/12 19:18	SLS	7440-02-0
Selenium, Dissolved	Not detected	mg/L	0.002	SW6020	12/27/12 19:22	SLS	7782-49-2
Selenium	Not detected	mg/L	0.002	SW6020	12/27/12 19:18	SLS	7782-49-2
Silver, Dissolved	Not detected	mg/L	0.0002	SW6020	12/27/12 19:22	SLS	7440-22-4
Silver	Not detected	mg/L	0.0002	SW6020	12/27/12 19:18	SLS	7440-22-4
Vanadium, Dissolved	Not detected	mg/L	0.002	SW6020	12/27/12 19:22	SLS	7440-62-2
Vanadium	0.008	mg/L	0.002	SW6020	12/27/12 19:18	SLS	7440-62-2
Zinc, Dissolved	Not detected	mg/L	0.010	SW6020	12/27/12 19:22	SLS	7440-66-6



Analytical Laboratory Report

Lab Sample ID: S55033.08 (continued)

Sample Tag: P2-MW-03

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals (continued)								
Zinc	0.017	mg/L	0.010	SW6020	12/27/12 19:18	SLS	7440-66-6	
Organics - PCBs/Pesticides								
TCL PCB List (Column 1)								
PCB-1016	Not detected	ug/L	0.05	SW8082A	12/21/12 15:55	JAN	12674-11-2	
PCB-1242	Not detected	ug/L	0.1	SW8082A	12/21/12 15:55	JAN	53469-21-9	
PCB-1221	Not detected	ug/L	0.1	SW8082A	12/21/12 15:55	JAN	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	SW8082A	12/21/12 15:55	JAN	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	SW8082A	12/21/12 15:55	JAN	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	SW8082A	12/21/12 15:55	JAN	11097-69-1	
PCB-1260	Not detected	ug/L	0.05	SW8082A	12/21/12 15:55	JAN	11096-82-5	
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics, Dissolved								
Acenaphthene	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	98-86-2	
Anthracene	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	120-12-7	
Atrazine	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	2	SW8270C	12/27/12 16:55	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	2	SW8270C	12/27/12 16:55	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	2	SW8270C	12/27/12 16:55	PL	131-11-3	



Analytical Laboratory Report

Lab Sample ID: S55033.08 (continued)

Sample Tag: P2-MW-03

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics, Dissolved (continued)								
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	2	SW8270C	12/27/12 16:55	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 16:55	PL	88-06-2	
TCL Semi-Volatile Organics								
Acenaphthene	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	208-96-8	
Acetophenone	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	98-86-2	
Anthracene	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	120-12-7	
Atrazine	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	7005-72-3	



Analytical Laboratory Report

Lab Sample ID: S55033.08 (continued)

Sample Tag: P2-MW-03

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Caprolactam	3	ug/L	1	SW8270C	12/27/12 21:52	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	12/27/12 21:52	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	86-30-6	
Naphthalene	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	85-01-8	
Phenol	3	ug/L	1	SW8270C	12/27/12 21:52	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	12/27/12 21:52	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	20	ug/L	5	SW8260B - SIM	12/26/12 18:33	WAT	123-91-1	



Analytical Laboratory Report

Lab Sample ID: S55033.08 (continued)

Sample Tag: P2-MW-03

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	12/28/12 06:25	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	12/28/12 06:25	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	12/28/12 06:25	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	12/28/12 06:25	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	12/28/12 06:25	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/28/12 06:25	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	12/28/12 06:25	WAT	96-12-8	



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INVOICE TO

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Containers & Preservatives

~~Q~~ MW-12-05 includes
field filtered volumes
for metals, PCBs, and SVOCs

~~Q~~ P2-MW-03 includes
field filtered volumes
for metals, and SVOCs

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 12/00/10		TIME 10:00	
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12/20/12		TIME 10:00	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 4.5		
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS			

Rev. 5.18.12



Analytical Laboratory Report

Revised Report

Report ID: S55050.01(02)

Generated on 02/05/2013

Replaces report S55050.01(01) generated on 01/09/2013

Report to

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Report Summary

Lab Sample ID(s): S55050.01-S55050.11

Project: Lansing Plant 2 Project# B0064479.2012

Collected Date: 12/20/2012

Submitted Date/Time: 12/21/2012 09:30

Sampled by: Alex Villharer

P.O. #: PO125047

Sample tag changed on .07 and .09 per client request

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Revised Report

Sample Summary (11 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S55050.01	Trip Blank	Groundwater	12/20/2012 08:20
S55050.02	P2-SB-03	Groundwater	12/20/2012 09:05
S55050.03	MW-12-08	Groundwater	12/20/2012 10:20
S55050.04	P2-SB-20	Groundwater	12/20/2012 11:18
S55050.05	P2-SB-06	Groundwater	12/20/2012 12:20
S55050.06	P2-DUP-3	Groundwater	12/20/2012 00:01
S55050.07	MW-02(2)	Groundwater	12/20/2012 14:30
S55050.08	MW-1 (2)	Groundwater	12/20/2012 15:35
S55050.09	MW-03(2)	Groundwater	12/20/2012 16:22
S55050.10	P2-DUP-4	Groundwater	12/20/2012 00:01
S55050.11	MW-12-17	Groundwater	12/20/2012 17:41



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.01
Sample Tag: Trip Blank
Collected Date/Time: 12/20/2012 08:20
Matrix: Groundwater
COC Reference: 78974

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	12/26/12 15:00	WAT		
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Organics - Volatiles

1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	12/27/12 05:47	WAT	123-91-1	
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TCL Volatile Organics 8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	01/03/13 01:59	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	01/03/13 01:59	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	01/03/13 01:59	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	01/03/13 01:59	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	01/03/13 01:59	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	124-48-1	
Chlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	79-34-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.01 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Ethylbenzene	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	01/03/13 01:59	JGH		
o-Xylene	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	01/03/13 01:59	JGH	96-12-8	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.02
Sample Tag: P2-SB-03
Collected Date/Time: 12/20/2012 09:05
Matrix: Groundwater
COC Reference: 78974

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.5	IR
3	1L Amber	None	Yes	4.5	IR
1	125ml Plastic	HNO3	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	12/27/12 19:20	EMR		
Extraction, PCB	Completed			3510C	12/26/12 10:00	CCM		
Mercury Digestion	Completed			SW7471A	12/28/12 12:00	JRH		
Metal Digestion	Completed			3015A	12/27/12 01:00	SLR		
pH check for VOCs	<2	STD Units		N/A	12/26/12 15:00	WAT		

Metals

Antimony	Not detected	mg/L	0.002	SW6020	12/27/12 20:42	SLS	7440-36-0
Arsenic	0.028	mg/L	0.002	SW6020	12/27/12 20:42	SLS	7440-38-2
Barium	0.226	mg/L	0.010	SW6020	12/27/12 20:42	SLS	7440-39-3
Boron	0.05	mg/L	0.04	SW6020	12/27/12 20:42	SLS	7440-42-8
Cadmium	Not detected	mg/L	0.001	SW6020	12/27/12 20:42	SLS	7440-43-9
Chromium	Not detected	mg/L	0.010	SW6020	12/27/12 20:42	SLS	7440-47-3
Cobalt	Not detected	mg/L	0.010	SW6020	12/27/12 20:42	SLS	7440-48-4
Copper	Not detected	mg/L	0.002	SW6020	12/27/12 20:42	SLS	7440-50-8
Lead	Not detected	mg/L	0.002	SW6020	12/27/12 20:42	SLS	7439-92-1
Manganese	0.042	mg/L	0.010	SW6020	12/27/12 20:42	SLS	7439-96-5
Mercury	Not detected	mg/L	0.0001	SW7471A	12/28/12 14:51	JRT	7439-97-6
Nickel	Not detected	mg/L	0.010	SW6020	12/27/12 20:42	SLS	7440-02-0
Selenium	Not detected	mg/L	0.002	SW6020	12/27/12 20:42	SLS	7782-49-2
Silver	Not detected	mg/L	0.0002	SW6020	12/27/12 20:42	SLS	7440-22-4
Vanadium	Not detected	mg/L	0.002	SW6020	12/27/12 20:42	SLS	7440-62-2
Zinc	Not detected	mg/L	0.010	SW6020	12/27/12 20:42	SLS	7440-66-6

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/L	0.05	SW8082A	12/26/12 20:59	JAN	12674-11-2
PCB-1242	Not detected	ug/L	0.1	SW8082A	12/26/12 20:59	JAN	53469-21-9
PCB-1221	Not detected	ug/L	0.1	SW8082A	12/26/12 20:59	JAN	11104-28-2
PCB-1232	Not detected	ug/L	0.1	SW8082A	12/26/12 20:59	JAN	11141-16-5
PCB-1248	Not detected	ug/L	0.1	SW8082A	12/26/12 20:59	JAN	12672-29-6
PCB-1254	Not detected	ug/L	0.1	SW8082A	12/26/12 20:59	JAN	11097-69-1
PCB-1260	Not detected	ug/L	0.05	SW8082A	12/26/12 20:59	JAN	11096-82-5

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	83-32-9
Acenaphthylene	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	208-96-8
Acetophenone	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	98-86-2
Anthracene	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	120-12-7
Atrazine	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	1912-24-9



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.02 (continued)

Sample Tag: P2-SB-03

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	01/08/13 23:28	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	86-30-6	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.02 (continued)

Sample Tag: P2-SB-03

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Naphthalene	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	01/08/13 23:28	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	12/27/12 06:05	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	01/03/13 02:21	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	01/03/13 02:21	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	01/03/13 02:21	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	01/03/13 02:21	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	01/03/13 02:21	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	124-48-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.02 (continued)

Sample Tag: P2-SB-03

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	01/03/13 02:21	JGH		
o-Xylene	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	01/03/13 02:21	JGH	96-12-8	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.03
Sample Tag: MW-12-08
Collected Date/Time: 12/20/2012 10:20
Matrix: Groundwater
COC Reference: 78974

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.5	IR
3	1L Amber	None	Yes	4.5	IR
1	125ml Plastic	HNO3	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	12/27/12 19:20	EMR		
Extraction, PCB	Completed			3510C	12/26/12 10:00	CCM		
Mercury Digestion	Completed			SW7471A	12/28/12 12:00	JRH		
Metal Digestion	Completed			3015A	12/27/12 01:00	SLR		
pH check for VOCs	<2	STD Units		N/A	12/26/12 15:35	WAT		

Metals

Antimony	Not detected	mg/L	0.002	SW6020	12/27/12 20:46	SLS	7440-36-0
Arsenic	Not detected	mg/L	0.002	SW6020	12/27/12 20:46	SLS	7440-38-2
Barium	0.326	mg/L	0.010	SW6020	12/27/12 20:46	SLS	7440-39-3
Boron	Not detected	mg/L	0.04	SW6020	12/27/12 20:46	SLS	7440-42-8
Cadmium	Not detected	mg/L	0.001	SW6020	12/27/12 20:46	SLS	7440-43-9
Chromium	Not detected	mg/L	0.010	SW6020	12/27/12 20:46	SLS	7440-47-3
Cobalt	Not detected	mg/L	0.010	SW6020	12/27/12 20:46	SLS	7440-48-4
Copper	0.010	mg/L	0.002	SW6020	12/27/12 20:46	SLS	7440-50-8
Lead	Not detected	mg/L	0.002	SW6020	12/27/12 20:46	SLS	7439-92-1
Manganese	0.672	mg/L	0.010	SW6020	12/27/12 20:46	SLS	7439-96-5
Mercury	Not detected	mg/L	0.0001	SW7471A	12/28/12 14:53	JRT	7439-97-6
Nickel	0.017	mg/L	0.010	SW6020	12/27/12 20:46	SLS	7440-02-0
Selenium	Not detected	mg/L	0.002	SW6020	12/27/12 20:46	SLS	7782-49-2
Silver	Not detected	mg/L	0.0002	SW6020	12/27/12 20:46	SLS	7440-22-4
Vanadium	Not detected	mg/L	0.002	SW6020	12/27/12 20:46	SLS	7440-62-2
Zinc	Not detected	mg/L	0.010	SW6020	12/27/12 20:46	SLS	7440-66-6

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/L	0.05	SW8082A	12/26/12 21:10	JAN	12674-11-2
PCB-1242	Not detected	ug/L	0.1	SW8082A	12/26/12 21:10	JAN	53469-21-9
PCB-1221	Not detected	ug/L	0.1	SW8082A	12/26/12 21:10	JAN	11104-28-2
PCB-1232	Not detected	ug/L	0.1	SW8082A	12/26/12 21:10	JAN	11141-16-5
PCB-1248	Not detected	ug/L	0.1	SW8082A	12/26/12 21:10	JAN	12672-29-6
PCB-1254	Not detected	ug/L	0.1	SW8082A	12/26/12 21:10	JAN	11097-69-1
PCB-1260	Not detected	ug/L	0.05	SW8082A	12/26/12 21:10	JAN	11096-82-5

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	83-32-9
Acenaphthylene	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	208-96-8
Acetophenone	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	98-86-2
Anthracene	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	120-12-7
Atrazine	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	1912-24-9



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.03 (continued)

Sample Tag: MW-12-08

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	01/09/13 00:01	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	86-30-6	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.03 (continued)

Sample Tag: MW-12-08

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Naphthalene	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 00:01	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	12/27/12 06:23	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	01/03/13 02:43	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	01/03/13 02:43	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	01/03/13 02:43	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	01/03/13 02:43	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	01/03/13 02:43	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	124-48-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.03 (continued)

Sample Tag: MW-12-08

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	01/03/13 02:43	JGH		
o-Xylene	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	01/03/13 02:43	JGH	96-12-8	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.04
Sample Tag: P2-SB-20
Collected Date/Time: 12/20/2012 11:18
Matrix: Groundwater
COC Reference: 78974

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.5	IR
3	1L Amber	None	Yes	4.5	IR
1	125ml Plastic	HNO3	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	12/27/12 19:20	EMR		
Extraction, PCB	Completed			3510C	12/26/12 10:00	CCM		
Mercury Digestion	Completed			SW7471A	12/28/12 12:00	JRH		
Metal Digestion	Completed			3015A	12/27/12 01:00	SLR		
pH check for VOCs	<2	STD Units		N/A	01/03/13 11:10	WAT		

Metals

Antimony	Not detected	mg/L	0.002	SW6020	12/28/12 13:54	SLS	7440-36-0
Arsenic	0.005	mg/L	0.002	SW6020	12/28/12 13:54	SLS	7440-38-2
Barium	0.032	mg/L	0.010	SW6020	12/28/12 13:54	SLS	7440-39-3
Boron	0.24	mg/L	0.04	SW6020	01/02/13 13:35	SLS	7440-42-8
Cadmium	Not detected	mg/L	0.001	SW6020	12/28/12 13:54	SLS	7440-43-9
Chromium	Not detected	mg/L	0.010	SW6020	12/28/12 13:54	SLS	7440-47-3
Cobalt	Not detected	mg/L	0.010	SW6020	12/28/12 13:54	SLS	7440-48-4
Copper	0.009	mg/L	0.002	SW6020	12/28/12 13:54	SLS	7440-50-8
Lead	0.003	mg/L	0.002	SW6020	01/02/13 13:35	SLS	7439-92-1
Manganese	0.029	mg/L	0.010	SW6020	12/28/12 13:54	SLS	7439-96-5
Mercury	Not detected	mg/L	0.0001	SW7471A	12/28/12 14:55	JRT	7439-97-6
Nickel	Not detected	mg/L	0.010	SW6020	12/28/12 13:54	SLS	7440-02-0
Selenium	Not detected	mg/L	0.002	SW6020	01/02/13 13:35	SLS	7782-49-2
Silver	Not detected	mg/L	0.0002	SW6020	01/02/13 13:35	SLS	7440-22-4
Vanadium	0.005	mg/L	0.002	SW6020	12/28/12 13:54	SLS	7440-62-2
Zinc	Not detected	mg/L	0.010	SW6020	12/28/12 13:54	SLS	7440-66-6

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/L	0.05	SW8082A	12/26/12 21:20	JAN	12674-11-2
PCB-1242	Not detected	ug/L	0.1	SW8082A	12/26/12 21:20	JAN	53469-21-9
PCB-1221	Not detected	ug/L	0.1	SW8082A	12/26/12 21:20	JAN	11104-28-2
PCB-1232	Not detected	ug/L	0.1	SW8082A	12/26/12 21:20	JAN	11141-16-5
PCB-1248	Not detected	ug/L	0.1	SW8082A	12/26/12 21:20	JAN	12672-29-6
PCB-1254	Not detected	ug/L	0.1	SW8082A	12/26/12 21:20	JAN	11097-69-1
PCB-1260	Not detected	ug/L	0.05	SW8082A	12/26/12 21:20	JAN	11096-82-5

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	83-32-9
Acenaphthylene	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	208-96-8
Acetophenone	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	98-86-2
Anthracene	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	120-12-7
Atrazine	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	1912-24-9



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.04 (continued)

Sample Tag: P2-SB-20

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	01/09/13 00:35	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	86-30-6	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.04 (continued)

Sample Tag: P2-SB-20

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Naphthalene	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 00:35	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	12/27/12 15:25	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	01/03/13 03:05	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	01/03/13 03:05	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	01/03/13 03:05	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	01/03/13 03:05	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	01/03/13 03:05	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	124-48-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.04 (continued)

Sample Tag: P2-SB-20

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	01/03/13 03:05	JGH		
o-Xylene	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	01/03/13 03:05	JGH	96-12-8	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.05
Sample Tag: P2-SB-06
Collected Date/Time: 12/20/2012 12:20
Matrix: Groundwater
COC Reference: 78974

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.5	IR
3	1L Amber	None	Yes	4.5	IR
1	125ml Plastic	HNO3	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	12/27/12 19:20	EMR		
Extraction, PCB	Completed			3510C	12/26/12 10:00	CCM		
Mercury Digestion	Completed			SW7471A	12/28/12 12:00	JRH		
Metal Digestion	Completed			3015A	12/27/12 01:00	SLR		
pH check for VOCs	<2	STD Units		N/A	12/28/12 10:30	WAT		

Metals

Antimony	Not detected	mg/L	0.002	SW6020	12/28/12 14:02	SLS	7440-36-0
Arsenic	Not detected	mg/L	0.002	SW6020	12/28/12 14:02	SLS	7440-38-2
Barium	0.091	mg/L	0.010	SW6020	12/28/12 14:02	SLS	7440-39-3
Boron	0.69	mg/L	0.04	SW6020	01/02/13 13:38	SLS	7440-42-8
Cadmium	Not detected	mg/L	0.001	SW6020	12/28/12 14:02	SLS	7440-43-9
Chromium	Not detected	mg/L	0.010	SW6020	12/28/12 14:02	SLS	7440-47-3
Cobalt	Not detected	mg/L	0.010	SW6020	12/28/12 14:02	SLS	7440-48-4
Copper	Not detected	mg/L	0.002	SW6020	12/28/12 14:02	SLS	7440-50-8
Lead	Not detected	mg/L	0.002	SW6020	01/02/13 13:38	SLS	7439-92-1
Manganese	0.495	mg/L	0.010	SW6020	12/28/12 14:02	SLS	7439-96-5
Mercury	Not detected	mg/L	0.0001	SW7471A	12/28/12 14:57	JRT	7439-97-6
Nickel	Not detected	mg/L	0.010	SW6020	12/28/12 14:02	SLS	7440-02-0
Selenium	Not detected	mg/L	0.002	SW6020	01/02/13 13:38	SLS	7782-49-2
Silver	Not detected	mg/L	0.0002	SW6020	01/02/13 13:38	SLS	7440-22-4
Vanadium	Not detected	mg/L	0.002	SW6020	12/28/12 14:02	SLS	7440-62-2
Zinc	Not detected	mg/L	0.010	SW6020	12/28/12 14:02	SLS	7440-66-6

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/L	0.05	SW8082A	12/26/12 21:31	JAN	12674-11-2
PCB-1242	Not detected	ug/L	0.1	SW8082A	12/26/12 21:31	JAN	53469-21-9
PCB-1221	Not detected	ug/L	0.1	SW8082A	12/26/12 21:31	JAN	11104-28-2
PCB-1232	Not detected	ug/L	0.1	SW8082A	12/26/12 21:31	JAN	11141-16-5
PCB-1248	Not detected	ug/L	0.1	SW8082A	12/26/12 21:31	JAN	12672-29-6
PCB-1254	Not detected	ug/L	0.1	SW8082A	12/26/12 21:31	JAN	11097-69-1
PCB-1260	Not detected	ug/L	0.05	SW8082A	12/26/12 21:31	JAN	11096-82-5

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	83-32-9
Acenaphthylene	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	208-96-8
Acetophenone	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	98-86-2
Anthracene	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	120-12-7
Atrazine	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	1912-24-9



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.05 (continued)

Sample Tag: P2-SB-06

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	01/09/13 01:09	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	86-30-6	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.05 (continued)

Sample Tag: P2-SB-06

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Naphthalene	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 01:09	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	22	ug/L	5	SW8260B - SIM	12/27/12 15:43	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	01/03/13 03:28	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	01/03/13 03:28	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	01/03/13 03:28	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	74-83-9	
Chloroethane	2	ug/L	1	SW8260B	01/03/13 03:28	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	156-60-5	
1,1-Dichloroethane	3	ug/L	1	SW8260B	01/03/13 03:28	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	01/03/13 03:28	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	01/03/13 03:28	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	124-48-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.05 (continued)

Sample Tag: P2-SB-06

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	01/03/13 03:28	JGH		
o-Xylene	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	01/03/13 03:28	JGH	96-12-8	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.06
Sample Tag: P2-DUP-3
Collected Date/Time: 12/20/2012 00:01
Matrix: Groundwater
COC Reference: 78974

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.5	IR
3	1L Amber	None	Yes	4.5	IR
1	125ml Plastic	HNO3	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	12/27/12 19:20	EMR		
Extraction, PCB	Completed			3510C	12/26/12 10:00	CCM		
Mercury Digestion	Completed			SW7471A	12/28/12 12:00	JRH		
Metal Digestion	Completed			3015A	12/27/12 01:00	SLR		
pH check for VOCs	<2	STD Units		N/A	12/28/12 10:30	WAT		

Metals

Antimony	Not detected	mg/L	0.002	SW6020	12/28/12 14:07	SLS	7440-36-0
Arsenic	Not detected	mg/L	0.002	SW6020	12/28/12 14:07	SLS	7440-38-2
Barium	0.096	mg/L	0.010	SW6020	12/28/12 14:07	SLS	7440-39-3
Boron	0.70	mg/L	0.04	SW6020	01/02/13 13:40	SLS	7440-42-8
Cadmium	Not detected	mg/L	0.001	SW6020	12/28/12 14:07	SLS	7440-43-9
Chromium	Not detected	mg/L	0.010	SW6020	12/28/12 14:07	SLS	7440-47-3
Cobalt	Not detected	mg/L	0.010	SW6020	12/28/12 14:07	SLS	7440-48-4
Copper	Not detected	mg/L	0.002	SW6020	12/28/12 14:07	SLS	7440-50-8
Lead	Not detected	mg/L	0.002	SW6020	01/02/13 13:40	SLS	7439-92-1
Manganese	0.495	mg/L	0.010	SW6020	12/28/12 14:07	SLS	7439-96-5
Mercury	Not detected	mg/L	0.0001	SW7471A	12/28/12 14:59	JRT	7439-97-6
Nickel	Not detected	mg/L	0.010	SW6020	12/28/12 14:07	SLS	7440-02-0
Selenium	Not detected	mg/L	0.002	SW6020	01/02/13 13:40	SLS	7782-49-2
Silver	Not detected	mg/L	0.0002	SW6020	01/02/13 13:40	SLS	7440-22-4
Vanadium	Not detected	mg/L	0.002	SW6020	12/28/12 14:07	SLS	7440-62-2
Zinc	Not detected	mg/L	0.010	SW6020	12/28/12 14:07	SLS	7440-66-6

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/L	0.05	SW8082A	12/26/12 21:41	JAN	12674-11-2
PCB-1242	Not detected	ug/L	0.1	SW8082A	12/26/12 21:41	JAN	53469-21-9
PCB-1221	Not detected	ug/L	0.1	SW8082A	12/26/12 21:41	JAN	11104-28-2
PCB-1232	Not detected	ug/L	0.1	SW8082A	12/26/12 21:41	JAN	11141-16-5
PCB-1248	Not detected	ug/L	0.1	SW8082A	12/26/12 21:41	JAN	12672-29-6
PCB-1254	Not detected	ug/L	0.1	SW8082A	12/26/12 21:41	JAN	11097-69-1
PCB-1260	Not detected	ug/L	0.05	SW8082A	12/26/12 21:41	JAN	11096-82-5

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	83-32-9
Acenaphthylene	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	208-96-8
Acetophenone	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	98-86-2
Anthracene	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	120-12-7
Atrazine	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	1912-24-9



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.06 (continued)

Sample Tag: P2-DUP-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	01/09/13 01:42	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	1	ug/L	1	SW8270C	01/09/13 01:42	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	86-30-6	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.06 (continued)

Sample Tag: P2-DUP-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Naphthalene	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 01:42	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	23	ug/L	5	SW8260B - SIM	12/27/12 16:01	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	01/03/13 03:50	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	01/03/13 03:50	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	01/03/13 03:50	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	74-83-9	
Chloroethane	2	ug/L	1	SW8260B	01/03/13 03:50	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	156-60-5	
1,1-Dichloroethane	3	ug/L	1	SW8260B	01/03/13 03:50	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	01/03/13 03:50	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	01/03/13 03:50	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	124-48-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.06 (continued)

Sample Tag: P2-DUP-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	01/03/13 03:50	JGH		
o-Xylene	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	01/03/13 03:50	JGH	96-12-8	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.07
Sample Tag: MW-02(2)
Collected Date/Time: 12/20/2012 14:30
Matrix: Groundwater
COC Reference: 78974

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.5	IR
3	1L Amber	None	Yes	4.5	IR
1	125ml Plastic	HNO3	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	12/27/12 19:20	EMR		
Extraction, PCB	Completed			3510C	12/26/12 10:00	CCM		
Mercury Digestion	Completed			SW7471A	12/28/12 12:00	JRH		
Metal Digestion	Completed			3015A	12/27/12 01:00	SLR		
pH check for VOCs	<2	STD Units		N/A	01/03/13 11:10	WAT		

Metals

Antimony	Not detected	mg/L	0.002	SW6020	12/28/12 14:11	SLS	7440-36-0
Arsenic	Not detected	mg/L	0.002	SW6020	12/28/12 14:11	SLS	7440-38-2
Barium	0.154	mg/L	0.010	SW6020	12/28/12 14:11	SLS	7440-39-3
Boron	0.14	mg/L	0.04	SW6020	01/02/13 13:43	SLS	7440-42-8
Cadmium	Not detected	mg/L	0.001	SW6020	12/28/12 14:11	SLS	7440-43-9
Chromium	Not detected	mg/L	0.010	SW6020	12/28/12 14:11	SLS	7440-47-3
Cobalt	Not detected	mg/L	0.010	SW6020	12/28/12 14:11	SLS	7440-48-4
Copper	0.003	mg/L	0.002	SW6020	12/28/12 14:11	SLS	7440-50-8
Lead	0.002	mg/L	0.002	SW6020	01/02/13 13:43	SLS	7439-92-1
Manganese	0.165	mg/L	0.010	SW6020	12/28/12 14:11	SLS	7439-96-5
Mercury	Not detected	mg/L	0.0001	SW7471A	12/28/12 15:01	JRT	7439-97-6
Nickel	Not detected	mg/L	0.010	SW6020	12/28/12 14:11	SLS	7440-02-0
Selenium	Not detected	mg/L	0.002	SW6020	01/02/13 13:43	SLS	7782-49-2
Silver	Not detected	mg/L	0.0002	SW6020	01/02/13 13:43	SLS	7440-22-4
Vanadium	Not detected	mg/L	0.002	SW6020	12/28/12 14:11	SLS	7440-62-2
Zinc	0.019	mg/L	0.010	SW6020	12/28/12 14:11	SLS	7440-66-6

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/L	0.05	SW8082A	12/26/12 21:52	JAN	12674-11-2
PCB-1242	Not detected	ug/L	0.1	SW8082A	12/26/12 21:52	JAN	53469-21-9
PCB-1221	Not detected	ug/L	0.1	SW8082A	12/26/12 21:52	JAN	11104-28-2
PCB-1232	Not detected	ug/L	0.1	SW8082A	12/26/12 21:52	JAN	11141-16-5
PCB-1248	Not detected	ug/L	0.1	SW8082A	12/26/12 21:52	JAN	12672-29-6
PCB-1254	Not detected	ug/L	0.1	SW8082A	12/26/12 21:52	JAN	11097-69-1
PCB-1260	Not detected	ug/L	0.05	SW8082A	12/26/12 21:52	JAN	11096-82-5

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	83-32-9
Acenaphthylene	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	208-96-8
Acetophenone	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	98-86-2
Anthracene	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	120-12-7
Atrazine	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	1912-24-9



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.07 (continued)

Sample Tag: MW-02(2)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	01/09/13 02:16	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	86-30-6	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.07 (continued)

Sample Tag: MW-02(2)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Naphthalene	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 02:16	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	12/27/12 16:19	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	01/03/13 04:12	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	01/03/13 04:12	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	01/03/13 04:12	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	01/03/13 04:12	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	01/03/13 04:12	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	124-48-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.07 (continued)

Sample Tag: MW-02(2)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	01/03/13 04:12	JGH		
o-Xylene	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	01/03/13 04:12	JGH	96-12-8	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.08
Sample Tag: MW-1 (2)
Collected Date/Time: 12/20/2012 15:35
Matrix: Groundwater
COC Reference: 78974

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.5	IR
3	1L Amber	None	Yes	4.5	IR
1	125ml Plastic	HNO3	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	12/27/12 19:20	EMR		
Extraction, PCB	Completed			3510C	12/27/12 10:58	ADB		
Mercury Digestion	Completed			SW7471A	12/28/12 12:00	JRH		
Metal Digestion	Completed			3015A	12/27/12 01:00	SLR		
pH check for VOCs	<2	STD Units		N/A	01/03/13 11:10	WAT		

Metals

Antimony	Not detected	mg/L	0.002	SW6020	12/28/12 14:15	SLS	7440-36-0
Arsenic	Not detected	mg/L	0.002	SW6020	12/28/12 14:15	SLS	7440-38-2
Barium	0.406	mg/L	0.010	SW6020	12/28/12 14:15	SLS	7440-39-3
Boron	0.07	mg/L	0.04	SW6020	01/02/13 13:46	SLS	7440-42-8
Cadmium	Not detected	mg/L	0.001	SW6020	12/28/12 14:15	SLS	7440-43-9
Chromium	Not detected	mg/L	0.010	SW6020	12/28/12 14:15	SLS	7440-47-3
Cobalt	Not detected	mg/L	0.010	SW6020	12/28/12 14:15	SLS	7440-48-4
Copper	0.015	mg/L	0.002	SW6020	12/28/12 14:15	SLS	7440-50-8
Lead	Not detected	mg/L	0.002	SW6020	01/02/13 13:46	SLS	7439-92-1
Manganese	0.169	mg/L	0.010	SW6020	12/28/12 14:15	SLS	7439-96-5
Mercury	Not detected	mg/L	0.0001	SW7471A	12/28/12 15:03	JRT	7439-97-6
Nickel	0.011	mg/L	0.010	SW6020	12/28/12 14:15	SLS	7440-02-0
Selenium	Not detected	mg/L	0.002	SW6020	01/02/13 13:46	SLS	7782-49-2
Silver	Not detected	mg/L	0.0002	SW6020	01/02/13 13:46	SLS	7440-22-4
Vanadium	Not detected	mg/L	0.002	SW6020	12/28/12 14:15	SLS	7440-62-2
Zinc	0.036	mg/L	0.010	SW6020	12/28/12 14:15	SLS	7440-66-6

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/L	0.05	SW8082A	12/27/12 13:20	JAN	12674-11-2
PCB-1242	Not detected	ug/L	0.1	SW8082A	12/27/12 13:20	JAN	53469-21-9
PCB-1221	Not detected	ug/L	0.1	SW8082A	12/27/12 13:20	JAN	11104-28-2
PCB-1232	Not detected	ug/L	0.1	SW8082A	12/27/12 13:20	JAN	11141-16-5
PCB-1248	Not detected	ug/L	0.1	SW8082A	12/27/12 13:20	JAN	12672-29-6
PCB-1254	Not detected	ug/L	0.1	SW8082A	12/27/12 13:20	JAN	11097-69-1
PCB-1260	Not detected	ug/L	0.05	SW8082A	12/27/12 13:20	JAN	11096-82-5

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	83-32-9
Acenaphthylene	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	208-96-8
Acetophenone	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	98-86-2
Anthracene	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	120-12-7
Atrazine	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	1912-24-9



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.08 (continued)

Sample Tag: MW-1 (2)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	01/09/13 02:49	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	86-30-6	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.08 (continued)

Sample Tag: MW-1 (2)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Naphthalene	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 02:49	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	12/27/12 16:37	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	01/03/13 04:34	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	01/03/13 04:34	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	10	ug/L	1	SW8260B	01/03/13 04:34	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	01/03/13 04:34	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	01/03/13 04:34	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	01/03/13 04:34	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	124-48-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.08 (continued)

Sample Tag: MW-1 (2)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	01/03/13 04:34	JGH		
o-Xylene	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	01/03/13 04:34	JGH	96-12-8	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.09
Sample Tag: MW-03(2)
Collected Date/Time: 12/20/2012 16:22
Matrix: Groundwater
COC Reference: 78974

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.5	IR
3	1L Amber	None	Yes	4.5	IR
1	125ml Plastic	HNO3	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	12/27/12 19:20	EMR		
Extraction, PCB	Completed			3510C	12/27/12 10:58	ADB		
Mercury Digestion	Completed			SW7471A	12/28/12 12:00	JRH		
Metal Digestion	Completed			3015A	12/27/12 01:00	SLR		
pH check for VOCs	<2	STD Units		N/A	01/03/13 11:10	WAT		

Metals

Antimony	Not detected	mg/L	0.002	SW6020	12/28/12 14:20	SLS	7440-36-0
Arsenic	0.003	mg/L	0.002	SW6020	12/28/12 14:20	SLS	7440-38-2
Barium	0.551	mg/L	0.010	SW6020	12/28/12 14:20	SLS	7440-39-3
Boron	0.16	mg/L	0.04	SW6020	01/02/13 13:49	SLS	7440-42-8
Cadmium	Not detected	mg/L	0.001	SW6020	12/28/12 14:20	SLS	7440-43-9
Chromium	Not detected	mg/L	0.010	SW6020	12/28/12 14:20	SLS	7440-47-3
Cobalt	Not detected	mg/L	0.010	SW6020	12/28/12 14:20	SLS	7440-48-4
Copper	0.007	mg/L	0.002	SW6020	12/28/12 14:20	SLS	7440-50-8
Lead	Not detected	mg/L	0.002	SW6020	01/02/13 13:49	SLS	7439-92-1
Manganese	2.03	mg/L	0.010	SW6020	12/28/12 14:20	SLS	7439-96-5
Mercury	Not detected	mg/L	0.0001	SW7471A	12/28/12 15:05	JRT	7439-97-6
Nickel	0.028	mg/L	0.010	SW6020	12/28/12 14:20	SLS	7440-02-0
Selenium	Not detected	mg/L	0.002	SW6020	01/02/13 13:49	SLS	7782-49-2
Silver	Not detected	mg/L	0.0002	SW6020	01/02/13 13:49	SLS	7440-22-4
Vanadium	Not detected	mg/L	0.002	SW6020	12/28/12 14:20	SLS	7440-62-2
Zinc	Not detected	mg/L	0.010	SW6020	12/28/12 14:20	SLS	7440-66-6

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/L	0.05	SW8082A	12/27/12 13:30	JAN	12674-11-2
PCB-1242	Not detected	ug/L	0.1	SW8082A	12/27/12 13:30	JAN	53469-21-9
PCB-1221	Not detected	ug/L	0.1	SW8082A	12/27/12 13:30	JAN	11104-28-2
PCB-1232	Not detected	ug/L	0.1	SW8082A	12/27/12 13:30	JAN	11141-16-5
PCB-1248	Not detected	ug/L	0.1	SW8082A	12/27/12 13:30	JAN	12672-29-6
PCB-1254	Not detected	ug/L	0.1	SW8082A	12/27/12 13:30	JAN	11097-69-1
PCB-1260	Not detected	ug/L	0.05	SW8082A	12/27/12 13:30	JAN	11096-82-5

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	83-32-9
Acenaphthylene	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	208-96-8
Acetophenone	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	98-86-2
Anthracene	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	120-12-7
Atrazine	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	1912-24-9



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.09 (continued)

Sample Tag: MW-03(2)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	01/09/13 03:24	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	8	ug/L	1	SW8270C	01/09/13 03:24	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	86-30-6	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.09 (continued)

Sample Tag: MW-03(2)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Naphthalene	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 03:24	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	12/27/12 16:55	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	01/03/13 04:57	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	01/03/13 04:57	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	2	ug/L	1	SW8260B	01/03/13 04:57	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	01/03/13 04:57	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	01/03/13 04:57	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	01/03/13 04:57	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	124-48-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.09 (continued)

Sample Tag: MW-03(2)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	01/03/13 04:57	JGH		
o-Xylene	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	01/03/13 04:57	JGH	96-12-8	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.10
Sample Tag: P2-DUP-4
Collected Date/Time: 12/20/2012 00:01
Matrix: Groundwater
COC Reference: 78974

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.5	IR
3	1L Amber	None	Yes	4.5	IR
1	125ml Plastic	HNO3	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	12/27/12 19:20	EMR		
Extraction, PCB	Completed			3510C	12/27/12 10:58	ADB		
Mercury Digestion	Completed			SW7471A	12/28/12 12:00	JRH		
Metal Digestion	Completed			3015A	12/27/12 01:00	SLR		
pH check for VOCs	<2	STD Units		N/A	01/03/13 11:10	WAT		

Metals

Antimony	Not detected	mg/L	0.002	SW6020	12/28/12 14:24	SLS	7440-36-0
Arsenic	0.003	mg/L	0.002	SW6020	12/28/12 14:24	SLS	7440-38-2
Barium	0.549	mg/L	0.010	SW6020	12/28/12 14:24	SLS	7440-39-3
Boron	0.16	mg/L	0.04	SW6020	01/02/13 13:51	SLS	7440-42-8
Cadmium	Not detected	mg/L	0.001	SW6020	12/28/12 14:24	SLS	7440-43-9
Chromium	Not detected	mg/L	0.010	SW6020	12/28/12 14:24	SLS	7440-47-3
Cobalt	Not detected	mg/L	0.010	SW6020	12/28/12 14:24	SLS	7440-48-4
Copper	0.007	mg/L	0.002	SW6020	12/28/12 14:24	SLS	7440-50-8
Lead	Not detected	mg/L	0.002	SW6020	01/02/13 13:51	SLS	7439-92-1
Manganese	2.02	mg/L	0.010	SW6020	12/28/12 14:24	SLS	7439-96-5
Mercury	Not detected	mg/L	0.0001	SW7471A	12/28/12 15:07	JRT	7439-97-6
Nickel	0.029	mg/L	0.010	SW6020	12/28/12 14:24	SLS	7440-02-0
Selenium	Not detected	mg/L	0.002	SW6020	01/02/13 13:51	SLS	7782-49-2
Silver	Not detected	mg/L	0.0002	SW6020	01/02/13 13:51	SLS	7440-22-4
Vanadium	Not detected	mg/L	0.002	SW6020	12/28/12 14:24	SLS	7440-62-2
Zinc	0.010	mg/L	0.010	SW6020	12/28/12 14:24	SLS	7440-66-6

Organics - PCBs/Pesticides**TCL PCB List (Column 1)**

PCB-1016	Not detected	ug/L	0.05	SW8082A	12/27/12 13:41	JAN	12674-11-2
PCB-1242	Not detected	ug/L	0.1	SW8082A	12/27/12 13:41	JAN	53469-21-9
PCB-1221	Not detected	ug/L	0.1	SW8082A	12/27/12 13:41	JAN	11104-28-2
PCB-1232	Not detected	ug/L	0.1	SW8082A	12/27/12 13:41	JAN	11141-16-5
PCB-1248	Not detected	ug/L	0.1	SW8082A	12/27/12 13:41	JAN	12672-29-6
PCB-1254	Not detected	ug/L	0.1	SW8082A	12/27/12 13:41	JAN	11097-69-1
PCB-1260	Not detected	ug/L	0.05	SW8082A	12/27/12 13:41	JAN	11096-82-5

Organics - Semi-Volatiles**TCL Semi-Volatile Organics**

Acenaphthene	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	83-32-9
Acenaphthylene	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	208-96-8
Acetophenone	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	98-86-2
Anthracene	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	120-12-7
Atrazine	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	1912-24-9



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.10 (continued)

Sample Tag: P2-DUP-4

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	01/09/13 03:58	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	1	ug/L	1	SW8270C	01/09/13 03:58	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	86-30-6	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.10 (continued)

Sample Tag: P2-DUP-4

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Naphthalene	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	01/09/13 03:58	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	12/27/12 17:13	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	01/03/13 05:19	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	01/03/13 05:19	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	2	ug/L	1	SW8260B	01/03/13 05:19	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	01/03/13 05:19	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	01/03/13 05:19	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	01/03/13 05:19	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	124-48-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.10 (continued)

Sample Tag: P2-DUP-4

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	01/03/13 05:19	JGH		
o-Xylene	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	01/03/13 05:19	JGH	96-12-8	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.11
Sample Tag: MW-12-17
Collected Date/Time: 12/20/2012 17:41
Matrix: Groundwater
COC Reference: 78974

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.5	IR
3	1L Amber	None	Yes	4.5	IR
1	125ml Plastic	HNO3	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	12/27/12 23:09	EMR		
Extraction, PCB	Completed			3510C	12/27/12 10:58	ADB		
Mercury Digestion	Completed			SW7471A	12/28/12 12:00	JRH		
Metal Digestion	Completed			3015A	12/27/12 01:00	SLR		
pH check for VOCs	<2	STD Units		N/A	01/03/13 11:10	WAT		

Metals

Antimony	Not detected	mg/L	0.002	SW6020	12/28/12 14:28	SLS	7440-36-0
Arsenic	Not detected	mg/L	0.002	SW6020	12/28/12 14:28	SLS	7440-38-2
Barium	0.085	mg/L	0.010	SW6020	12/28/12 14:28	SLS	7440-39-3
Boron	0.04	mg/L	0.04	SW6020	01/02/13 13:54	SLS	7440-42-8
Cadmium	Not detected	mg/L	0.001	SW6020	12/28/12 14:28	SLS	7440-43-9
Chromium	Not detected	mg/L	0.010	SW6020	12/28/12 14:28	SLS	7440-47-3
Cobalt	Not detected	mg/L	0.010	SW6020	12/28/12 14:28	SLS	7440-48-4
Copper	Not detected	mg/L	0.002	SW6020	12/28/12 14:28	SLS	7440-50-8
Lead	Not detected	mg/L	0.002	SW6020	01/02/13 13:54	SLS	7439-92-1
Manganese	0.169	mg/L	0.010	SW6020	12/28/12 14:28	SLS	7439-96-5
Mercury	Not detected	mg/L	0.0001	SW7471A	12/28/12 15:09	JRT	7439-97-6
Nickel	Not detected	mg/L	0.010	SW6020	12/28/12 14:28	SLS	7440-02-0
Selenium	Not detected	mg/L	0.002	SW6020	01/02/13 13:54	SLS	7782-49-2
Silver	Not detected	mg/L	0.0002	SW6020	01/02/13 13:54	SLS	7440-22-4
Vanadium	Not detected	mg/L	0.002	SW6020	12/28/12 14:28	SLS	7440-62-2
Zinc	Not detected	mg/L	0.010	SW6020	12/28/12 14:28	SLS	7440-66-6

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/L	0.05	SW8082A	12/27/12 13:51	JAN	12674-11-2
PCB-1242	Not detected	ug/L	0.1	SW8082A	12/27/12 13:51	JAN	53469-21-9
PCB-1221	Not detected	ug/L	0.1	SW8082A	12/27/12 13:51	JAN	11104-28-2
PCB-1232	Not detected	ug/L	0.1	SW8082A	12/27/12 13:51	JAN	11141-16-5
PCB-1248	Not detected	ug/L	0.1	SW8082A	12/27/12 13:51	JAN	12672-29-6
PCB-1254	Not detected	ug/L	0.1	SW8082A	12/27/12 13:51	JAN	11097-69-1
PCB-1260	Not detected	ug/L	0.05	SW8082A	12/27/12 13:51	JAN	11096-82-5

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	83-32-9
Acenaphthylene	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	208-96-8
Acetophenone	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	98-86-2
Anthracene	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	120-12-7
Atrazine	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	1912-24-9



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.11 (continued)

Sample Tag: MW-12-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
1,1'-Biphenyl	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	84-74-2	
Benzaldehyde	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	91-58-7	
2-Chlorophenol	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	59-50-7	
4-Chloroaniline	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	7005-72-3	
Caprolactam	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	105-60-2	
Carbazole	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	108-60-1	
Chrysene	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	01/08/13 12:54	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	132-64-9	
Diethyl phthalate	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	117-81-7	
Fluoranthene	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	206-44-0	
Fluorene	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	86-73-7	
Hexachlorobutadiene	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	193-39-5	
Isophorone	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	91-57-6	
2-Methylphenol	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	88-74-4	
2-Nitrophenol	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	88-75-5	
3-Nitroaniline	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	100-01-6	
4-Nitrophenol	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	86-30-6	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.11 (continued)

Sample Tag: MW-12-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Naphthalene	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	117-84-0	
Pentachlorophenol	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	87-86-5	
Phenanthrene	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	85-01-8	
Phenol	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	108-95-2	
Pyrene	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	1	SW8270C	01/08/13 12:54	PL	88-06-2	
Organics - Volatiles								
1,4-Dioxane	Not detected	ug/L	5	SW8260B - SIM	12/27/12 17:31	WAT	123-91-1	
TCL Volatile Organics 8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	76-13-1	
Acetone	Not detected	ug/L	10	SW8260B	01/03/13 05:41	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	SW8260B	01/03/13 05:41	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	10	SW8260B	01/03/13 05:41	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	75-01-4	
Bromomethane	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	SW8260B	01/03/13 05:41	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	10	SW8260B	01/03/13 05:41	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	124-48-1	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55050.11 (continued)

Sample Tag: MW-12-17

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	01/03/13 05:41	JGH		
o-Xylene	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	95-50-1	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	120-82-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	106-93-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	SW8260B	01/03/13 05:41	JGH	96-12-8	



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OF

78974

INVOICE TO

CONTACT NAME				Randy Christensen			
COMPANY				ARCADIS			
ADDRESS				10559 Citation Drive Suite 100			
CITY			STATE		ZIP CODE		
Brighton			MI		48116		
PHONE NO.		FAX NO.		P.O. NO.			
810-225-1910				PO			
E-MAIL ADDRESS				QUOTE NO.			
<u>randy.christensen@arcadis-us.com</u>				Task#00107			

CONTACT NAME	Dave Favero		☐ SAME
COMPANY	RACER TRUST		
ADDRESS	2930 Ecorse Road		
CITY	Ypsilanti	STATE	MI ZIP CODE 48198
PHONE NO.	313-486-9208	E-MAIL ADDRESS <u>d Favero@racertrust.org</u>	

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Lansing Plant <i>2</i> Project#: B0064479 2012.	SAMPLER(S) - PLEASE PRINT/SIGN NAME <i>Alex Villanar</i> / <i>Cal Webb</i>
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER _____	
DELIVERABLES REQUIRED ☒ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____	

MATRIX CODE:	GW=GROUNDWATER	WW=WASTEWATER	S=SOIL	L=LIQUID	SD=SOLID
	SL=SLUDGE	DW=DRINKING WATER	O=OIL	WP=WIPE	A=AIR
					W=WASTE

MERIT LAB NO. FOR LAB USE ONLY	YEAR <u>2012</u>		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER					☐ Other _____ Special Instructions	
	DATE	TIME											TCL	TCL	TAL	TAL		
55-050.01	12/20	8:20	Trip blank	GLW	2		2							X				
.02	12/20	9:03	P2-SB-03	GLW	6	3	2	1						X	X	X	X	
.03	12/20	10:20	P2 MW-12-08	GLW	6	3	2	1						X	X	X	X	
.04	12/20	11:18	P2-SB-20	GLW	6	3	2	1						X	X	X	X	
.05	12/20	12:20	P2-SB-06	GLW	6	3	2	1						X	X	X	X	
.06	12/20	—	P2-DVP-3	GLW	6	3	2	1						X	X	X	X	
.07	12/20	14:30	MW-2	GLW	6	3	2	1						X	X	X	X	
.08	12/20	15:35	MW-1 (2)	GLW	6	3	2	1						X	X	X	X	
.09	12/20	16:22	MW-3	GLW	6	3	2	1						X	X	X	X	
.10	12/20	—	P2-DVP-4	GLW	6	3	2	1						X	X	X	X	
.11	12/20	17:41	MW-12-17	GLW	6	3	2	1						X	X	X	X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>[Signature]</i>	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	<i>[Signature]</i>	DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>[Signature]</i>	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	<i>[Signature]</i>	DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION			DATE	TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES:	TEMP. ON ARRIVAL
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



Analytical Laboratory Report

Report ID: S54751.01(01)
Generated on 12/07/2012

Report to

Attention: Randy Christensen/ Jeff Davin
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Lansing Plants for Arcadis Group

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:

Andy Ball (andyball@meritlabs.com)
Tabitha Faust (tfaust@meritlabs.com)

Report Summary

Lab Sample ID(s): S54751.01-S54751.02
Project: Lansing Plant #2 Project# B0064479.2012
Collected Date: 11/29/2012
Submitted Date/Time: 11/30/2012 09:50
Sampled by: Alex Villhauer
P.O. #: PO125047

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (2 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S54751.01	SG-A2-PC75_5-5.5'	Air	11/29/2012 10:04
S54751.02	SG-A2-PC77_5-5.5'	Air	11/29/2012 10:49



Analytical Laboratory Report

Lab Sample ID: S54751.01

Sample Tag: SG-A2-PC75_5-5.5'

Collected Date/Time: 11/29/2012 10:04

Matrix: Air

COC Reference: 63852

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Other / Misc.

Misc. Special Project	Completed				12/04/12 12:00	Fib		O
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O-Analysis performed by outside laboratory. See attached report.



Analytical Laboratory Report

Lab Sample ID: S54751.02

Sample Tag: SG-A2-PC77_5-5.5'

Collected Date/Time: 11/29/2012 10:49

Matrix: Air

COC Reference: 63852

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Other / Misc.

Misc. Special Project	Completed				12/04/12 12:00	Fib		O
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O-Analysis performed by outside laboratory. See attached report.



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OF

63852

INVOICE TO

CONTACT NAME		Dave Falero		☐ SAME	
COMPANY		RACER Trust			
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		MI		48198	
PHONE NO.		FAX NO.		P.O. NO.	
313-486-9208		dfalero@racertrust.org			
ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)					

[illegible]

RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>AG [Signature] / PMIE</i>	DATE 11/29/12	TIME 18:30	RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>SW Mex</i>	DATE 11-30-12	TIME 09:50
RECEIVED BY: SIGNATURE/ORGANIZATION	<i>PM Storage</i>	DATE 11/29/12	TIME 17:30	RECEIVED BY: SIGNATURE/ORGANIZATION	<i>[Signature] Ball</i>	DATE 30 NOV 12	TIME 09:50
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME	SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL
RECEIVED BY: SIGNATURE/ORGANIZATION	<i>SW Mex</i>	DATE 11-30-12	TIME 9:54	SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE



Wednesday, December 12, 2012

Fibertec Project Number: 53273
Project Identification: S54751 /
Submittal Date: 11/30/2012

Mr. Andy Ball
Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Dear Mr. Ball,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

A handwritten signature in black ink, appearing to read 'Daryl Strandbergh', with a stylized flourish at the end.

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures



Analytical Laboratory Report
Laboratory Project Number: 53273
Laboratory Sample Number: 53273-001

Order: 53273
Page: 2 of 6
Date: 12/12/12

Client Identification:	Merit Laboratories, Inc.	Sample Description:	S54751.01	Chain of Custody:	68185
Client Project Name:	S54751	Sample No:	1	Collect Date:	11/29/12
Client Project No:	NA	Sample Matrix:	Air	Collect Time:	10:04

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

TO-15 (TO-15)				Aliquot ID: 53273-001			Matrix: Air		Analyst: RDK
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone (NN)	120		µg/m3	6.0	1.0	12/04/12	V412L04A	12/04/12	V412L04A
2. Benzene (NN)	27		µg/m3	1.2	1.0	12/04/12	V412L04A	12/04/12	V412L04A
3. Benzyl Chloride (NN)	U		µg/m3	13	1.0	12/04/12	V412L04A	12/04/12	V412L04A
4. Bromodichloromethane (NN)	U		µg/m3	2.5	1.0	12/04/12	V412L04A	12/04/12	V412L04A
5. Bromoform (NN)	U		µg/m3	3.9	1.0	12/04/12	V412L04A	12/04/12	V412L04A
6. Bromomethane (NN)	U		µg/m3	4.1	1.0	12/04/12	V412L04A	12/04/12	V412L04A
7. 1,3-Butadiene (NN)	U		µg/m3	1.2	1.0	12/04/12	V412L04A	12/04/12	V412L04A
8. 2-Butanone (NN)	13		µg/m3	3.2	1.0	12/04/12	V412L04A	12/04/12	V412L04A
9. Carbon Disulfide (NN)	3.9		µg/m3	1.6	1.0	12/04/12	V412L04A	12/04/12	V412L04A
10. Carbon Tetrachloride (NN)	U		µg/m3	2.4	1.0	12/04/12	V412L04A	12/04/12	V412L04A
11. Chlorobenzene (NN)	U		µg/m3	1.7	1.0	12/04/12	V412L04A	12/04/12	V412L04A
12. Chloroethane (NN)	U		µg/m3	0.92	1.0	12/04/12	V412L04A	12/04/12	V412L04A
13. Chloroform (NN)	U		µg/m3	1.6	1.0	12/04/12	V412L04A	12/04/12	V412L04A
14. Chloromethane (NN)	U		µg/m3	5.5	1.0	12/04/12	V412L04A	12/04/12	V412L04A
15. Cyclohexane (NN)	36		µg/m3	1.2	1.0	12/04/12	V412L04A	12/04/12	V412L04A
16. Dibromochloromethane (NN)	U		µg/m3	3.2	1.0	12/04/12	V412L04A	12/04/12	V412L04A
17. 1,2-Dichlorobenzene (NN)	U		µg/m3	2.3	1.0	12/04/12	V412L04A	12/04/12	V412L04A
18. 1,3-Dichlorobenzene (NN)	U		µg/m3	2.3	1.0	12/04/12	V412L04A	12/04/12	V412L04A
19. 1,4-Dichlorobenzene (NN)	U		µg/m3	2.3	1.0	12/04/12	V412L04A	12/04/12	V412L04A
20. Dichlorodifluoromethane (NN)	4.5		µg/m3	1.7	1.0	12/04/12	V412L04A	12/04/12	V412L04A
21. 1,1-Dichloroethane (NN)	U		µg/m3	1.5	1.0	12/04/12	V412L04A	12/04/12	V412L04A
22. 1,2-Dichloroethane (NN)	U		µg/m3	1.5	1.0	12/04/12	V412L04A	12/04/12	V412L04A
23. 1,1-Dichloroethene (NN)	U		µg/m3	11	1.0	12/04/12	V412L04A	12/04/12	V412L04A
24. cis-1,2-Dichloroethene (NN)	U		µg/m3	1.5	1.0	12/04/12	V412L04A	12/04/12	V412L04A
25. trans-1,2-Dichloroethene (NN)	U		µg/m3	1.3	1.0	12/04/12	V412L04A	12/04/12	V412L04A
26. 1,2-Dichloropropane (NN)	U		µg/m3	5.2	1.0	12/04/12	V412L04A	12/04/12	V412L04A
27. cis-1,3-Dichloropropene (NN)	U		µg/m3	1.6	1.0	12/04/12	V412L04A	12/04/12	V412L04A
28. trans-1,3-Dichloropropene (NN)	U		µg/m3	6.2	1.0	12/04/12	V412L04A	12/04/12	V412L04A
29. 1,4-Dioxane (NN)	U		µg/m3	1.3	1.0	12/04/12	V412L04A	12/04/12	V412L04A
30. Ethyl Acetate (NN)	U		µg/m3	3.6	1.0	12/04/12	V412L04A	12/04/12	V412L04A
31. Ethylbenzene (NN)	18		µg/m3	1.6	1.0	12/04/12	V412L04A	12/04/12	V412L04A
32. Ethylene Dibromide (NN)	U		µg/m3	2.8	1.0	12/04/12	V412L04A	12/04/12	V412L04A
33. 4-Ethyltoluene (NN)	4.8		µg/m3	1.9	1.0	12/04/12	V412L04A	12/04/12	V412L04A
34. n-Heptane (NN)	92		µg/m3	1.4	1.0	12/04/12	V412L04A	12/04/12	V412L04A
35. Hexachlorobutadiene (NN)	U		µg/m3	4.1	1.0	12/04/12	V412L04A	12/04/12	V412L04A
36. n-Hexane (NN)	150		µg/m3	1.2	1.0	12/04/12	V412L04A	12/04/12	V412L04A
37. 2-Hexanone (NN)	U		µg/m3	4.6	1.0	12/04/12	V412L04A	12/04/12	V412L04A
38. Isopropanol (NN)	U		µg/m3	6.1	1.0	12/04/12	V412L04A	12/04/12	V412L04A
39. Methylene Chloride (NN)	U		µg/m3	9.5	1.0	12/04/12	V412L04A	12/04/12	V412L04A
40. 2-Methylnaphthalene (NN)	U		µg/m3	16	1.0	12/04/12	V412L04A	12/04/12	V412L04A

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Cadillac, MI 49601

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F: (517) 699-0388
F: (810) 220-3311
F: (231) 775-8584



Analytical Laboratory Report
Laboratory Project Number: 53273
Laboratory Sample Number: 53273-001

Order: 53273
Page: 3 of 6
Date: 12/12/12

Client Identification:	Merit Laboratories, Inc.	Sample Description:	S54751.01	Chain of Custody:	68185
Client Project Name:	S54751	Sample No:	1	Collect Date:	11/29/12
Client Project No:	NA	Sample Matrix:	Air	Collect Time:	10:04

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

TO-15 (TO-15)				Aliquot ID: 53273-001			Matrix: Air		Analyst: RDK
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
41. 4-Methyl-2-pentanone (NN)	24		µg/m3	1.6	1.0	12/04/12	V412L04A	12/04/12	V412L04A
42. MTBE (NN)	U		µg/m3	1.3	1.0	12/04/12	V412L04A	12/04/12	V412L04A
43. Naphthalene (NN)	U		µg/m3	14	1.0	12/04/12	V412L04A	12/04/12	V412L04A
44. Propylene (NN)	150		µg/m3	4.6	1.0	12/04/12	V412L04A	12/04/12	V412L04A
45. Styrene (NN)	U		µg/m3	1.6	1.0	12/04/12	V412L04A	12/04/12	V412L04A
46. 1,1,2,2-Tetrachloroethane (NN)	U		µg/m3	2.6	1.0	12/04/12	V412L04A	12/04/12	V412L04A
47. Tetrachloroethene (NN)	8.0		µg/m3	2.5	1.0	12/04/12	V412L04A	12/04/12	V412L04A
48. Tetrahydrofuran (NN)	U		µg/m3	3.1	1.0	12/04/12	V412L04A	12/04/12	V412L04A
49. Toluene (NN)	80		µg/m3	1.4	1.0	12/04/12	V412L04A	12/04/12	V412L04A
50. 1,2,4-Trichlorobenzene (NN)	U		µg/m3	39	1.0	12/04/12	V412L04A	12/04/12	V412L04A
51. 1,1,1-Trichloroethane (NN)	83		µg/m3	2.0	1.0	12/04/12	V412L04A	12/04/12	V412L04A
52. 1,1,2-Trichloroethane (NN)	U		µg/m3	2.1	1.0	12/04/12	V412L04A	12/04/12	V412L04A
53. Trichloroethene (NN)	U		µg/m3	2.0	1.0	12/04/12	V412L04A	12/04/12	V412L04A
54. Trichlorofluoromethane (NN)	9.3		µg/m3	3.0	1.0	12/04/12	V412L04A	12/04/12	V412L04A
55. 1,1,2-Trichlorotrifluoroethane (NN)	U		µg/m3	2.8	1.0	12/04/12	V412L04A	12/04/12	V412L04A
56. 1,2,4-Trimethylbenzene (NN)	11		µg/m3	1.9	1.0	12/04/12	V412L04A	12/04/12	V412L04A
57. 1,3,5-Trimethylbenzene (NN)	4.1		µg/m3	1.9	1.0	12/04/12	V412L04A	12/04/12	V412L04A
58. Vinyl Acetate (NN)	U		µg/m3	19	1.0	12/04/12	V412L04A	12/04/12	V412L04A
59. Vinyl Chloride (NN)	U		µg/m3	0.89	1.0	12/04/12	V412L04A	12/04/12	V412L04A
60. m&p-Xylene (NN)	45		µg/m3	3.3	1.0	12/04/12	V412L04A	12/04/12	V412L04A
61. o-Xylene (NN)	15		µg/m3	1.6	1.0	12/04/12	V412L04A	12/04/12	V412L04A

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Analytical Laboratory Report
Laboratory Project Number: 53273
Laboratory Sample Number: 53273-002

Order: 53273
Page: 4 of 6
Date: 12/12/12

Client Identification:	Merit Laboratories, Inc.	Sample Description:	S54751.02	Chain of Custody:	68185
Client Project Name:	S54751	Sample No:	2	Collect Date:	11/29/12
Client Project No:	NA	Sample Matrix:	Air	Collect Time:	10:49

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

TO-15 (TO-15)				Aliquot ID: 53273-002			Matrix: Air	Analyst: RDK	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone (NN)	U		µg/m3	73	5.0	12/03/12	V412L03A	12/04/12	V412L03A
2. Benzene (NN)	22		µg/m3	4.4	5.0	12/03/12	V412L03A	12/04/12	V412L03A
3. Benzyl Chloride (NN)	U		µg/m3	65	5.0	12/03/12	V412L03A	12/04/12	V412L03A
4. Bromodichloromethane (NN)	U		µg/m3	9.2	5.0	12/03/12	V412L03A	12/04/12	V412L03A
5. Bromoform (NN)	U		µg/m3	14	5.0	12/03/12	V412L03A	12/04/12	V412L03A
6. Bromomethane (NN)	U		µg/m3	10	5.0	12/03/12	V412L03A	12/04/12	V412L03A
7. 1,3-Butadiene (NN)	U		µg/m3	6.0	5.0	12/03/12	V412L03A	12/04/12	V412L03A
8. 2-Butanone (NN)	U		µg/m3	7.8	5.0	12/03/12	V412L03A	12/04/12	V412L03A
9. Carbon Disulfide (NN)	U		µg/m3	7.9	5.0	12/03/12	V412L03A	12/04/12	V412L03A
10. Carbon Tetrachloride (NN)	U		µg/m3	8.4	5.0	12/03/12	V412L03A	12/04/12	V412L03A
11. Chlorobenzene (NN)	U		µg/m3	6.4	5.0	12/03/12	V412L03A	12/04/12	V412L03A
12. Chloroethane (NN)	U		µg/m3	3.5	5.0	12/03/12	V412L03A	12/04/12	V412L03A
13. Chloroform (NN)	U		µg/m3	6.7	5.0	12/03/12	V412L03A	12/04/12	V412L03A
14. Chloromethane (NN)	U		µg/m3	28	5.0	12/03/12	V412L03A	12/04/12	V412L03A
15. Cyclohexane (NN)	22		µg/m3	4.7	5.0	12/03/12	V412L03A	12/04/12	V412L03A
16. Dibromochloromethane (NN)	U		µg/m3	12	5.0	12/03/12	V412L03A	12/04/12	V412L03A
17. 1,2-Dichlorobenzene (NN)	U		µg/m3	8.3	5.0	12/03/12	V412L03A	12/04/12	V412L03A
18. 1,3-Dichlorobenzene (NN)	U		µg/m3	8.3	5.0	12/03/12	V412L03A	12/04/12	V412L03A
19. 1,4-Dichlorobenzene (NN)	U		µg/m3	9.7	5.0	12/03/12	V412L03A	12/04/12	V412L03A
20. Dichlorodifluoromethane (NN)	U		µg/m3	6.4	5.0	12/03/12	V412L03A	12/04/12	V412L03A
21. 1,1-Dichloroethane (NN)	U		µg/m3	5.6	5.0	12/03/12	V412L03A	12/04/12	V412L03A
22. 1,2-Dichloroethane (NN)	U		µg/m3	5.6	5.0	12/03/12	V412L03A	12/04/12	V412L03A
23. 1,1-Dichloroethene (NN)	U		µg/m3	54	5.0	12/03/12	V412L03A	12/04/12	V412L03A
24. cis-1,2-Dichloroethene (NN)	U		µg/m3	5.4	5.0	12/03/12	V412L03A	12/04/12	V412L03A
25. trans-1,2-Dichloroethene (NN)	U		µg/m3	5.4	5.0	12/03/12	V412L03A	12/04/12	V412L03A
26. 1,2-Dichloropropane (NN)	U		µg/m3	13	5.0	12/03/12	V412L03A	12/04/12	V412L03A
27. cis-1,3-Dichloropropene (NN)	U		µg/m3	6.2	5.0	12/03/12	V412L03A	12/04/12	V412L03A
28. trans-1,3-Dichloropropene (NN)	U		µg/m3	31	5.0	12/03/12	V412L03A	12/04/12	V412L03A
29. 1,4-Dioxane (NN)	U		µg/m3	5.0	5.0	12/03/12	V412L03A	12/04/12	V412L03A
30. Ethyl Acetate (NN)	U		µg/m3	5.0	5.0	12/03/12	V412L03A	12/04/12	V412L03A
31. Ethylbenzene (NN)	32		µg/m3	6.0	5.0	12/03/12	V412L03A	12/04/12	V412L03A
32. Ethylene Dibromide (NN)	U		µg/m3	11	5.0	12/03/12	V412L03A	12/04/12	V412L03A
33. 4-Ethyltoluene (NN)	U		µg/m3	7.3	5.0	12/03/12	V412L03A	12/04/12	V412L03A
34. n-Heptane (NN)	39		µg/m3	5.6	5.0	12/03/12	V412L03A	12/04/12	V412L03A
35. Hexachlorobutadiene (NN)	U		µg/m3	15	5.0	12/03/12	V412L03A	12/04/12	V412L03A
36. n-Hexane (NN)	71		µg/m3	4.8	5.0	12/03/12	V412L03A	12/04/12	V412L03A
37. 2-Hexanone (NN)	U		µg/m3	5.9	5.0	12/03/12	V412L03A	12/04/12	V412L03A
38. Isopropanol (NN)	U		µg/m3	31	5.0	12/03/12	V412L03A	12/04/12	V412L03A
39. Methylene Chloride (NN)	U		µg/m3	48	5.0	12/03/12	V412L03A	12/04/12	V412L03A
40. 2-Methylnaphthalene (NN)	U		µg/m3	78	5.0	12/03/12	V412L03A	12/04/12	V412L03A

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Analytical Laboratory Report
Laboratory Project Number: 53273
Laboratory Sample Number: 53273-002

Order: 53273
Page: 5 of 6
Date: 12/12/12

Client Identification:	Merit Laboratories, Inc.	Sample Description:	S54751.02	Chain of Custody:	68185
Client Project Name:	S54751	Sample No:	2	Collect Date:	11/29/12
Client Project No:	NA	Sample Matrix:	Air	Collect Time:	10:49

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

TO-15 (TO-15)				Aliquot ID: 53273-002			Matrix: Air		Analyst: RDK
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
41. 4-Methyl-2-pentanone (NN)	U		µg/m3	20	5.0	12/03/12	V412L03A	12/04/12	V412L03A
42. MTBE (NN)	U		µg/m3	5.0	5.0	12/03/12	V412L03A	12/04/12	V412L03A
43. Naphthalene (NN)	U		µg/m3	72	5.0	12/03/12	V412L03A	12/04/12	V412L03A
44. Propylene (NN)	180		µg/m3	23	5.0	12/03/12	V412L03A	12/04/12	V412L03A
45. Styrene (NN)	U		µg/m3	5.9	5.0	12/03/12	V412L03A	12/04/12	V412L03A
46. 1,1,2,2-Tetrachloroethane (NN)	U		µg/m3	9.5	5.0	12/03/12	V412L03A	12/04/12	V412L03A
47. Tetrachloroethene (NN)	U		µg/m3	9.4	5.0	12/03/12	V412L03A	12/04/12	V412L03A
48. Tetrahydrofuran (NN)	U		µg/m3	7.7	5.0	12/03/12	V412L03A	12/04/12	V412L03A
49. Toluene (NN)	1000		µg/m3	5.2	5.0	12/03/12	V412L03A	12/04/12	V412L03A
50. 1,2,4-Trichlorobenzene (NN)	U		µg/m3	200	5.0	12/03/12	V412L03A	12/04/12	V412L03A
51. 1,1,1-Trichloroethane (NN)	23		µg/m3	7.5	5.0	12/03/12	V412L03A	12/04/12	V412L03A
52. 1,1,2-Trichloroethane (NN)	U		µg/m3	7.6	5.0	12/03/12	V412L03A	12/04/12	V412L03A
53. Trichloroethene (NN)	U		µg/m3	7.4	5.0	12/03/12	V412L03A	12/04/12	V412L03A
54. Trichlorofluoromethane (NN)	U		µg/m3	15	5.0	12/03/12	V412L03A	12/04/12	V412L03A
55. 1,1,2-Trichlorotrifluoroethane (NN)	U		µg/m3	11	5.0	12/03/12	V412L03A	12/04/12	V412L03A
56. 1,2,4-Trimethylbenzene (NN)	15		µg/m3	6.8	5.0	12/03/12	V412L03A	12/04/12	V412L03A
57. 1,3,5-Trimethylbenzene (NN)	U		µg/m3	6.8	5.0	12/03/12	V412L03A	12/04/12	V412L03A
58. Vinyl Acetate (NN)	U		µg/m3	97	5.0	12/03/12	V412L03A	12/04/12	V412L03A
59. Vinyl Chloride (NN)	U		µg/m3	3.4	5.0	12/03/12	V412L03A	12/04/12	V412L03A
60. m&p-Xylene (NN)	96		µg/m3	12	5.0	12/03/12	V412L03A	12/04/12	V412L03A
61. o-Xylene (NN)	31		µg/m3	6.0	5.0	12/03/12	V412L03A	12/04/12	V412L03A

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Definitions/ Qualifiers:

- A:** Spike recovery or precision unusable due to dilution.
- B:** The analyte was detected in the associated method blank.
- E:** The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
- J:** The concentration is an estimated value.
- M:** Modified Method
- U:** The analyte was not detected at or above the reporting limit.
- X:** Matrix Interference has resulted in a raised reporting limit or distorted result.
- W:** Results reported on a wet-weight basis.
- *:** Value reported is outside QA limits

Exception Summary:



Accreditation Number:

E-10395